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Friedrichstraße 180
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Education

PH.D. IN COMPUTER SCIENCE June 2001
THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Dissertation Title: Intelligence by Design: Principles of Modularity and Coordination
for Engineering Complex Adaptive Agents.

Courses Include: Principles of Computing Systems, Embodiment and Cognition,
Computer Architecture, Artificial Intelligence, Theory of Computation.

M.PHIL. IN PSYCHOLOGY January 2000
THE UNIVERSITY OF EDINBURGH

Dissertation Title: The Study of Sequential and Hierarchical Organization of Behavior via Arti-
ficial Mechanisms of Action Selection.

Research conducted 1996–1998; viva postponed for convenience; Tony Prescott, external.

M.SC. IN ARTIFICIAL INTELLIGENCE November 1992
THE UNIVERSITY OF EDINBURGH

Dissertation Title: The Subsumption Strategy Development of a Music Modelling System

Courses Include: Knowledge Representation and Inference, Intelligent Sensing and
Control, Neural Networks, Software for Parallel Architectures, Expert Systems

B.A. IN BEHAVIORAL SCIENCE June 1986
THE COLLEGE OF THE UNIVERSITY OF CHICAGO

Courses Include: Human Information Processing, Perception, Human Interaction,
Developmental Neuropsychology, Ethology, History of Science in Western Civilization

Employment

PROFESSOR OF ETHICS AND TECHNOLOGY [Hertie School of Governance](#), Berlin
Hertie is a private university focused on research and postgraduate education in public policy and
international affairs. Founding member of their [Centre for Digital Governance](#); affiliate of their
Data Science Lab and their Centre for Fundamental Rights.
February 2020–*present*

DEPARTMENT OF COMPUTER SCIENCE University of Bath, England
Founded the AI research group; Organised mailing lists/seminar series: Artificial Models of Nat-
ural Intelligence (amoni), Bath Evolutionary Social Sciences, Bath AI; active participant in neu-
roscience and robotics communities. Member of Centres for Networks and Collective Behaviour;
Mathematical Biology; Centres for Media Technology; Biomimetic Engineering, and the Institute
for Policy Research; cf. Teaching and Administration sections below.

READER (*US: tenured Assoc. Prof.*) Sep 2010–Jan 2020 (part time from Sep 2016);

LECTURER B (*US: Asst. Prof.*) Oct 2002–Aug 2010.

PRIMATE COGNITIVE NEUROSCIENCE LABORATORY Harvard University, Cambridge USA
Postdoctoral Fellow with Prof. Marc D. Hauser, working on modeling specialized learning in pri-
mates and its applications to safe learning in software agents (cf. grants below).
October 2001 – Sept 2002

HUMAN COMMUNICATION RESEARCH CENTER University of Edinburgh, Scotland
Research Assistant to Profs. Johanna Moore and Mark Steedman, facilitating migration of their NLP research to Edinburgh. Investigated dynamic planning for dialog-based tutoring systems.
Jan 1999 – March 2000

LEGO Boston, MA and Billund, Denmark
Consultation and research for the toy company. With LEGO Futura–Boston (1995), developed technologically-oriented play concepts, focussing on programabililty of the robot kit that became Mindstorms. With Special Project Unit Darwin at LEGO corporate headquarters (1998), developed a proprietary intelligent character architecture for real-time virtual reality applications.
April 1995 – December 1995, February 1998 – December 1998

MARBLE ASSOCIATES, INC. Waltham, MA, USA
Senior Associate (1993) / Intern (1994) for technology consultancy. Initially positioned in the “Core Object Support” team for large-scale reengineering of a technology manufacturer with 30,000 employees worldwide; responsible for the corporate software library, integrating other teams (order entry, tracking, product config.) and interfacing with corporate databases and other legacy systems. Made Technical Project Lead after three months. Also AI expert; business development.
January 1993 – August 1993, Summer 1994

A M INVESTORS Chicago, IL, USA
Project Leader for automating the exchange-floor staff. Delivered a real-time trading support system (based around Sybase RDB) with a 20-minute maximum downtime.
September 1988 – July 1991

LAWRENCE I. SCHULMAN & CO. / FIRST OPTIONS OF CHICAGO Chicago, IL, USA
Sole technical employee; provided custom trading and bookkeeping tools for the company that became the proprietary trading unit of the world’s largest options clearing firm.
July 1986 – September 1988

(Advisory) Board and Council Memberships

Note: Journal boards and conferemce committees listed below under Other Academic Service.

Expert, [one of nine initially selected to represent Germany](#), for the [Global Partnership on Artificial Intelligence \(GPAI\)](#). A founding member of the Responsible Development, Use and Governance of AI (RAI) Working Group. One of two first co-chairs of the AI Governance Committee since January 2021. voluntary, July 2020–*present*.

Invited member (voluntary), Future AI Rules Reference Group, [Foundation for European Progressive Studies \(FEPS\)](#) July 2020–*present*.

Scientific Advisory Board, [Artificial Intelligence and Cybersecurity Task Force](#) *Centre for European Policy Studies* (CEPS, unpaid), July 2020–February 2021.

Advanced Technology External Advisory Council, *Google* (USA, unpaid). Appointed in December 2018 as one of eight board members for 2019 (inaugural year). The Council was dismantled one week after its announcement in April 2019 after outcry over the excessive diversity of its membership.

AI & Society Advisory Council, *Canadian Institute for Advanced Research (CIFAR)*, since 2018.
Steering Committee of the Swiss national research programme on “Digital transformation,” *Swiss National Science Foundation*, since 2018.

Mindfire Ethics Board (Switzerland, unpaid) 2017–2019.

ADA-AI Advisory Board (London, unpaid) since roughly 2017.

Co-chair, Affective Computing Committee, *The IEEE Global Initiative for Ethical Considerations in Artificial Intelligence and Autonomous Systems* (unpaid), since 2016.

Elected senator representing the Academic Assembly, *University Council*, University of Bath, 2013–2015 (served two years of three-year term, resigned for sabbatical, see also below.)

Visiting and Sabbatical Positions, other Honours and Awards

SENIOR FELLOW Berlin Centre for Consumer Policies ([BCCP](#))
February 2020–*present*

VISITING PROFESSOR Tilburg Institute for Law, Technology, and Society
Topic of the institute that month: Reconfiguring Human-AI Relationships.
September 2019

APPOINTED MEMBER The Foundation for Information Policy Research ([FIPR](#))
An independent body that studies the interaction between information technology and society.
June 2018–*present*

WHIDDEN LECTURESHIP McMasters University, Faculty of Humanities
[Lecture series](#) awarded to one interdisciplinary researcher annually. Lecture titles listed below.
February 2018 – March 2018

ELECTED MEMBER The UK Computing Research Committee (UKCRC)
An expert panel of the Institution of Engineering and Technology and the BCS.
November 2017–*present*

GENDER-GASTPROFESSORIN Bielefeld University
[Visiting Professor of Gender Studies](#), position awarded annually, held in the Cluster of Excellence Cognitive Interaction Technology (CITEC). Lecture titles listed below.
November 2017

PHILANTHROPIC AWARD: RESPONSIBLE AI AXA Research Fund
One of three recipients globally; philanthropic topic is changed annually. cf. Each receives a €250,000 award, cf. Research Grants below.
October 2017 (conditions of award finalised)

AWARD: OUTSTANDING CONTRIBUTION TO AI ETHICS CogX
[AI Innovation Awards](#)
June 2017

CENTER FOR INFORMATION TECHNOLOGY POLICY (CITP) Princeton University
Visiting Fellow (sabbatical from Bath) 2015–16: “Public Goods and Artificial Intelligence”; affiliate thereafter, working with Arvind Narayanan.
August 2015 – July 2018

MANNHEIMER ZENTRUM FÜR EUROPÄISCHE SOZIALFORSCHUNG University Mannheim
Visiting Research Fellow at Mannheim’s Centre for Social Science Research.
January 2011 – December 2013

DEPARTMENT OF ANTHROPOLOGY Oxford University
Visiting Research Fellow. Assisted Harvey Whitehouse on EU FW7 project *Explaining Religion*.
February 2010 – December 2010

THE KONRAD LORENZ INSTITUTE FOR EVOLUTION AND COGNITION RESEARCH Vienna
Resident Faculty / Hans Przibram Fellow in EvoDevo Research. Funded by the KLI, with partial sabbatical support from Bath. Topic: “Factors Limiting the Biological Evolution of Cultural Evolution”.
August 2007 – August 2009

METHODS AND DATA INSTITUTE University of Nottingham
Visiting Research Fellow. Attended courses on quantitative research methods in the social sciences, gave lectures on agent-based modelling.
September 2007 – July 2009

MEMBER OF THE COLLEGE Engineering and Physical Sciences Research Council (EPSRC)
The College is the review board of the British research council in charge of (among other things) computer sciences and artificial intelligence. Appointment follows peer nomination plus selection.
2006–2020

COMPUTERS AND COGNITION GROUP Franklin W. Olin College of Engineering, USA
Visiting Postdoctoral Fellow with Prof. Lynn Andrea Stein, working on the interaction between autonomous agents and semantic web services in the context of DAML-S.
June 2001 – September 2001

NATIONAL MERIT SCHOLAR University of Chicago
Competitive undergraduate scholarship awarded based on academic achievement.
1982–1986

Other Research Visits

Multi-day visits for the purpose of collaboration and/or knowledge exchange not otherwise covered under conference papers, working or visiting positions.

The Human Dynamics Laboratory, Media Laboratory, MIT, Cambridge MA. Visiting Sandy Pentland's group *17–19 May 2011*.

Equipe d'Ethologie des Primates, Louis Pasteur University Strasbourg, France. Visiting (with Hagen Lehmann) Bernard Thierry (CNRS), discussing models of macaque social behaviour. Visit funded by the British Council. *1 week, July 2005*.

Electronics and Telecommunications Research Institute (ETRI), South Korea, with visits to local universities (see *Invited Talks*, below). Invited to discuss intelligent robotics. *1 week, August 2004*.

Stanford AI Laboratory and Stanford Research Institute (SRI). Work funded by DAML on the semantic web with Jerry Hobbs and Sheila McIlraith. *2 weeks, July 2001*.

Vrije Universiteit Brussel (VUB) AI Laboratory. Visiting (with Will Lowe) Luc Steels and his students, discussing behavior-based AI, statistical NLP and the evolution of language. *2 weeks, January 1998*.

Academic Service

Service for German government: German Ministry for Labour and Society, Bundesministerium für Arbeit und Soziales (BMAS): Global Partnership for AI (July 2020–*present*); German Ministry of Education and Research / Bundesministerium für Bildung und Forschung (BMBF): Review of German AI Centres of Excellence (September 2021).

Grant reviews for the UK's Engineering and Physical Sciences Research Council (EPSRC—as a member of their College), the USA's National Science Foundation (NSF) and Air Force Office of Research (USAFOR); The United Kingdom's Economic and Social Research Council (ESRC) and their Biotechnology and Biological Sciences Research Council (BBSRC), The Vienna Science and Technology Fund (WWTF, Cognitive Science Call), The Leverhulme Trust, Swiss National Science Foundation, Helmholtz-Gemeinschaft Deutscher Forschungszentren, the Dutch Research Council (NWO—Social Sciences and Humanities Domain).

Scientific and technical reviews for the European Commission:

Project reviewer:

- *RobotCub*: €8.5 million, 5-year, 16-university EU FW6 Information Society Technologies (IST) Cognitive Systems (2005–2010).
- *Integrating Cognition, Emotion and Autonomy (ICEA)*: €8.08 million, 4-year, 10-partner EU FW6 IST Cognitive Systems (2007).
- *Responsive Artificial Situated Cognitive Agents Living and Learning on the Internet (RASCALLI)*: €1.6 million, 3-year, 6-partner EU FW6 IST Cognitive Systems (2007–2009).
- *EUropean RObotics research Network (EURON)*: €3.34 million EU FW6 4-year IST Network of Excellence (2007).

Proposal evaluations for Advanced Robotic Systems (June 2006); for Cognitive Systems (June 2007); Cognitive Systems and Robotics (May 2009), then I ran out of time.

External Advisory Committee member for the University of California, Los Angeles (UCLA) Human Complex Systems Program (2008-2011).

Executive Committee Member for the European Network for the Advancement of Artificial Cognitive Systems (euCognition, 2007–2008).

Chair of Organising Committee for

- [Concrete contributions to detecting market dominance in digital sectors](#) Invitation only 2-day virtual workshop. Guest speakers: Helena Malikova (co-chair), Stéphanie Yon-Courtin, MEP rapporteur on competition, Thomas Philippon, NYU Stern School, Cory Doctorow, journalist, Agustin Reyna, Bureau Européen des Unions de Consommateurs (BEUC), Diana Moss, American Antitrust Institute. 1–2 June 2021.
- Chair and co-host (on behalf Centre for Digital Governance) with the Berlin British Embassy, [Responsible Use of Algorithms in the Public Sector](#), Berlin launch of the [UK CDEI's Review into Bias in Algorithmic Decision-Making](#), with Frances Wood, Lara MacDonald Roger Taylor, Julia Gundlach, and Judith Peterka, 'Hertie School', 21 April 2021.
- [The Impact of Anthropomorphism on Human Understanding of Intelligent Systems](#), (co-chair with Jen Haensel and Rob Wortham), panel 'at' The Annual Convention, Society for the Study of Artificial Intelligence and the Simulation of Behaviour (AISB) 2021, theme: *Communication and conversation*.
- The Annual Convention, Society for the Study of Artificial Intelligence and the Simulation of Behaviour (AISB) 2017, theme: *Society with AI*.
- *The Machine Question: AI, Ethics, and Moral Responsibility*, Symposium at *AISB / IACAP World Congress 2012—Alan Turing 2012*, Birmingham UK;
- The Third Southwest Regional Meeting on Mathematics, Computation and Biology (2007, Bath)
- Modelling Natural Action Selection (International stand-alone workshop co-located *IJCAI 2005*, Edinburgh).

Organising Committee for *Understanding AI & Us* (Stand-alone international transdisciplinary workshop 2018, in Berlin, funded by Volkswagen Foundation); *Appropriateness and Feasibility of Legal Personhood for Autonomous and Artificially Intelligent Agents* an international workshop at Princeton CITP (with Bendert Zevenbergen (chair) and Ed Felton), *The Principles of Robotics—Five Years On*, Symposium at AISB 2016, Sheffield; *Ethical and Moral Considerations in Nonhuman Agents*, AAI Spring Symposium 2016, Stanford;

Advisory board for [Patterns](#).

Associate Editor for *Adaptive Behavior* (2002–present); Editorial board for *Connection Science* (2014–present), *AI & Society* (2013–present), *The International Journal of Synthetic Emotions* (2008–present), *Journal of Mind Theory* (2008–2010), *Web Intelligence and Agent Systems* (2002–2004).

Additional journal reviews for: Animal Behaviour; Artificial Intelligence (AIJ); Artificial General Intelligence; Behavior; Biological Theory; Ecological Modelling; Ethics and Information Technology; Evolution and Human Behaviour; Information Sciences; IEEE Intelligent Systems, IEEE Systems, Man and Cybernetics, B; IEEE Transactions on Evolutionary Computation; IEEE Transactions on Robotics; Interaction Studies; Journal of Artificial Societies and Social Simulation; Journal of the Royal Society Interfaces; Knowledge-Based Systems; Nature: Human Behaviour; Nature: Machine Intelligence; Neurocomputing; NeuroImage; Procedia Computer Science; Proceedings of the Royal Society, B: Biological Sciences; PLoS Computational Biology; PLoS ONE; Policy and Society, Science Advances.

Program or Scientific Committee for: IJCAI 2017 (Senior Program Committee for Special Track on AI and Autonomy), AAI (2017), Fairness, Accountability, and Transparency on the World Wide Web (FAT/WEB 2017), WWW 2017 Workshop on the Sociotechnical and Ethical Impacts of Online Web Services (2017), Ethics for Artificial Intelligence (at IJCAI 2016);

ECAI (2016); FLAIRS-28 Special Track on Autonomous Robots and Agents (2015); Advances in Cognitive Systems (ACS, 2015, 2013); AAMAS (2017, Challenges and Visions track, 2014); IACAP 2014; Philosophical Theory and AI 2013; TAROS 2012; SocialCom 2012; CMCV 2011; The International Joint Conference on Artificial Intelligence (IJCAI 2009,2011); Artificial Life XI (2008) and XV (2016); IEEE Congress on Evolutionary Computation, special session on Evolutionary Robotics (2009); Intelligent Virtual Agents 3–7 (2001, 2003, 2005, 2006, 2007); Simulation of Adaptive Behavior 7–11 (2002, 2004, 2006, 2008, 2010); IEEE CEC 2009 Special Session on Evolutionary Robotics; Learning and Adaptive Behavior in Robotic Systems (LAB-RS 2008); Agent cognitive ability and orders of emergence (at AISB 2008); Attention in Cognitive Systems (at IJCAI 2007), Modular Construction of Human-Like Intelligence (at AAAI 2005); Toward Social Mechanisms of Android Science (at Cognitive Science 2005); Socially Inspired Computing (at AISB 2005); Motivational and Emotional Roots of Cognition and Action (at AISB 2005); Autonomous Agents and Multi-Agent Systems 4 (2005); Robotics and Neurobiology (at IWINAC 2005); Intelligent Agent Technology, 2003, 2004; Niche Autonomous Robots (at The 14th International FLAIRS Conference), 2001; Autonomy Control: Lessons from the Emotional (at the 15th European Meeting on Cybernetics and Systems Research), 2000.

Additional Reviews for: Evolution of Language (2008, 2010); Cognitive Science (2000, 2004–7, 2009); Neural Computation and Psychology 9 (2004); Imitation in Animals and Artifacts 3 (at AISB 2005); International Workshop on Biologically-Inspired Machine Learning (1999), AAAI (1994), CogSci (2017).

Member of The Society for the Study of Artificial Intelligence and the Simulation of Adaptive Behaviour (1996–*present*), Cognitive Science (1998–*present*, off and on), The European Social Simulation Association (2003–*present*), Association for the Study of Animal Behaviour (2004–*present*), The International Primatological Society (2007–2009), The European Human Behavior & Evolution Association (2008–*present*).

Invited member of the EPSRC Biologically-Inspired Robotics Network (BIRO-net, 2003–2006), the European Network for the Advancement of Artificial Cognitive Systems (euCognition I–III, 2006–2014); the European Science Foundation Network for The Evolution of Social Cognition (CompCog, 2008–2011); the EPSRC Research Network on AI and Games Technology (2007–2012), the RCUK Digital Economy network+ for Sustainable Society (2012–*present*), the RCUK Digital Economy network+ for Communities & Culture (2012–*present*), the AHRC Memory Network (2012–2015).

Moderator of the international mailing list autonomous-robots October 1997–June 2001.

Teaching

HERTIE SCHOOL OF GOVERNANCE Berlin
Postgraduate teaching: Governance and Politics of Artificial Intelligence (with Slava Jankin, Spring and Fall 2020, Spring 2021; solo Fall 2021, Spring 2022). Individual and Collective Intelligence: Insights from Biology and Technology (Fall 2020, 2021). Ethics and Governance of Digital Technology (Fall 2020, 2021). Project courses: Detecting Market Dominance and Emerging Digital Sectors (with Helena Malikova, DG Comp, Spring 2021)
February 2020 – *present*

THE DEPARTMENT OF COMPUTER SCIENCE University of Bath
Postgraduate teaching: Intelligent Control and Cognitive Systems (Spring 2011–2015, 2017–2018, co-teaching 2019), Humans and Intelligent Machines (Fall co-teaching 2018, 2019), Research Project Preparation (Spring 2003–7), Database Systems (Fall co-teaching 2003–6). *Undergraduate teaching:* Intelligent Control and Cognitive Systems (Spring 2011–2015, 2017–2018, co-teaching 2019), Programming 1b (Spring 2010–2015), Systems Engineering (co-taught Fall 2009, Spring 2010), Programming II (Spring co-taught 2004–7), Database Systems (Fall co-taught 2003–6). Research supervision: see research students, below. Passed Bath’s mandatory ILT-certified lecturer training course in 2004; made Fellow of the Higher Education Academy 2014 (recognition reference number: PR079700).
February 2003 – January 2020

THE DEPARTMENT OF PSYCHOLOGY University of Edinburgh
Part-time undergraduate lecturer for the Department of Psychology. Courses: The Biological Basis of Behavior (1st year students, 3 terms); Cognitive Psychology (3rd year students, 1 term); 1st–4th year honours tutorials.
January 1996 – December 1997

THE DEPARTMENT OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE MIT
Teaching Assistant for 3 terms. Teaching assistants work 30 hours a week at MIT with considerable responsibility. Courses: The Structure and Interpretation of Computer Programs (6.001) (1st year students, 2 terms); Artificial Intelligence (6.034) (3rd year students, 1 term).
September 1994 – December 1995

THE DEPARTMENT OF COMPUTER SCIENCE University of Chicago
Course Tutor for both undergraduate and postgraduate computer science courses.
September 1983 – June 1987

Administration

THE DEPARTMENT OF COMPUTER SCIENCE University of Bath
Department Research Team / AI Group Leader 2011–2015; University Council (elected representative of the Academic Assembly) 2013–2015; University Senate (elected representative of the Academic Assembly for the maximum two consecutive 3-year terms) 2010–2015; University Court (elected representative of the Academic Assembly) 2012–2015; AI Seminar Series 2003–2017; Computer Science Department Convener for the Natural Sciences Degree Programme 2004–2007, 2013–2015; Industrial Placements Tutor 2009–2011; Faculty of Science Board of Studies 2006–2007; Department Teaching Committee 2005–2007; Staff-Student Liaison Committee 2005–2007; Library Committee 2003–2007; *Note: Administrative duties curtailed and employment reduced to 40% due to residing in Princeton, NJ, for family reasons August 2015–January 2020.*

Research Assistants and Fellows

- Dr. Jennifer Haensel, Research Officer (human subjects, robotics) September 2019 – October 2020, Impact of Anthropomorphism on Transparency for AI.
- Dr. Simon T. Powers, Research Officer (modelling) May–September 2011, Cultural Variation in Antisocial Punishment.

Dr. Karolina Sylwester, Research Officer (human subjects) 2010–2011, Cultural Variation in Antisocial Punishment.

James Mitchell, Research Programmer 2010–2011, Cultural Variation in Antisocial Punishment.

Dr. Pablo Lucas, Research Officer (modelling) October 2010–March 2011, Cultural Variation in Antisocial Punishment.

Dr. Etienne Roesch, Visiting Research Fellow 2010–2011.

Dr. Dylan Evans, Outreach Officer 2008, European Cognitive Systems Outreach through website and higher education curriculum.

Dr. Veronica Sundstedt, Outreach Officer 2008, European Cognitive Systems Outreach through website and higher education curriculum.

Philipp Rohlfshagen, Research Officer 2007, Integrating durative state (emotions and drives) with dynamic planning and modular AI control.

Dr. Emmanuel Tanguy, Research Officer 2005–2006. Emotions, action selection and facial animation systems.

Tristan Caulfield, Research Officer 2005. Integrating POSH dynamic planning with conventional agent-based modelling systems.

Ivana Čače, Visiting Research Student 2004 (6 months, Utrecht). Evolution of communication.

Dr. Will Lowe, Visiting Research Fellow 2002–*present* (visiting from Harvard (2002–2006), Nottingham (2006–2009), Maastricht (2009–2010), Mannheim (2010–2015), Princeton (2015–2016)). Computational linguistics, machine learning, research methods in the social sciences, modelling social and political identity of parties, nations and individuals.

Research Students

PHD STUDENTS

Andreas Theodorou, *AI Governance Through a Transparency Lens* (Bath, September 2015–May 2019).

Robert H. Wortham, *Using Other Minds: Transparency as a Fundamental Design Consideration for Artificial Intelligent Systems* (Bath, part time, June 2014–June 2018).

Yifei Wang, *Evolutionary Innovations and Dynamics in Wagner’s Model of Genetic Regulatory Networks*, (Bath, with Nick Priest, October 2012–May 2016).

Paul Rauwolf *Understanding the Ubiquity of Self-Deception: The Evolutionary Utility of Incorrect Information* (Bath, with Marina De Vos, started October 2012–July 2016).

Jekaterina Novikova, *Designing Emotionally Expressive Behaviour: Intelligibility and Predictability in Human-Robot Interaction*, (Bath, with Leon Watts, October 2012–January 2016).

Swen Gaudl, *Building Robust Real-Time Game AI: Simplifying and Automating Integral Process Steps in Multi-Platform Design* (Bath, April 2012–May 2016).

Bidan Huang, *The Use of Modular Approaches For Robots to Learn Grasping and Manipulation*, (Bath, with Aude Billard, October 2010 – June 2015)

Gideon Gluckman, topic: The Impact of Primate Social Structure on Biological Evolution (Bath, part-time, started October 2010, suspended 2011 withdrew 2013 for an industrial opportunity).

Dominic Mitchell, topic: Public Language as an Adaptive Trait (Bath, part-time, started October 2010, switched to another supervisor February 2016).

Daniel Taylor, *Evolution of the Social Contract*, (Bath, October 2010–October 2014).

Marios Richards, topic: Impact of ontogenetic learning on phylogenetic evolution (Bath, part-time, started October 2008, withdrew June 2012).

Hagen Lehmann, *On the Applicability of Agent Based Modelling in Behavioural Ecology* (Bath, January 2005 – September 2009).

Mark Wood, *An Agent-Independent Task Learning Framework* (Bath, October 2003 – July 2008).

Emmanuel Tanguy, *Emotions: The Art of Communication Applied to Virtual Actors* (Bath, second supervisor with Prof. Phil Willis first supervisor, October 2002 – June 2006).

Note: UK PhDs are awarded after protracted viva voce examinations conducted by one external and one internal examiner.

PhD External Examiner for: Nottingham, Elizabeth Gordon (Computer Science, 2004); Hertfordshire, David Jacobs (Computer Science, 2005); University of London, Goldsmiths College, Tak-Shing Thomas Chan (Computer Science, 2007); Dublin City University, Oisín Mac Fhearai (Computer Science, 2014); University College London, Elizabeth M. Gallagher (Anthropology, 2017); Oxford University, Justin E. Lane (Anthropology, 2019).

PhD Internal examiner for Bath: Gina Raihani (Psychology, 2007); Andrew Carnell (Computer Science, 2008); Florian Schanda (Computer Science, 2010).

Vivaing PhD committee (non UK): Leiden, Joost Broekens (Computer Science, 2007); UCSC, April Grow (changed concentration); Arizona State University, Miles Brundage (Technology Policy, 2019); Sorbonne, Katherine Evans (Philosophy, 2021).

Non-examining PhD Committee Jan Drugowitsch (Bath, 2007), Carl O'Dwyer (Bath, withdrew), Jeehang Lee (Bath, 2015), Ronny Bogani (Bath, transferred to Edinburgh).

HERTIE SCHOOL MASTERS DISSERTATION STUDENTS

2021: Mark Dempsey, Elise Racine, Vishali Sairam, Maritta Rastuti, Robert Foerster, Isabel Olivia Kivlighan, Alexander Russman.

MSC DISSERTATION STUDENTS

2018, supervised by PhD student Andreas Theodorou: Holly Wilson†, Alex Rotsidis†.

2015: Laura Deeley (MComp); supervised by PhD student Yifei Wang: Hongwei Tong, Yang Hong.

2010: John Grey†, Jason Leake†, *Bath Mathematics*: Daniel Taylor.

2008: *Bath Mathematics*: Marios Richards.

2007: Jonathan Baillie Strong.

2006: Alastair Fletcher†, Yifan Jiang. *Utrecht Philosophy*: Ivana Čače†.

2005: Yasushi Ando†, Andrew Beggs†, Steven Couzens, Matthew Thomas†, Bouri Zhang.

2004: Paula Ellis†, Liu Wenxin, Chia-Hua (Annette) Tsou, Wang Jinxu.

2003: Andy Kwong†, Nur Haifa Muhd Fathil, Jing Jing (Andrea) Wang†, Peter Duncan Wright.

FINAL YEAR UNDERGRADUATE HONOURS STUDENTS:

2015: Kyle Bignell, Wil Eager, Alex Kershaw†*, Tom Murray, Aaron Rickard†.

2014: Alex Aiton†, Sam Eaton-Rosen, Tom Ellis, Ryan Murdock, Stephen Pearson, Allan Taylor†, Michael Wyllie.

2013: Michael Brooks†, Alex Fedorec†, Thom Highman, George Lungley, Tim MacFarlane†, Alice Stuart-Lee†*.

2012: Eugene Bann†, Simon Davies†, Tom Hyde†, Richard Scott-Holt†.

2011: David Greenhill, Jack Kenyon, Matthew Robinson, Michael Tremante†.

2010: James Bickerton†, Thomas Fletcher†*.

2009: Robert Jenks†*.

2007: Ayesha Begum, Mary Estall†, Thomas Peach†, Bowen Sun.

2006: Christos Bechlivanidis†, Avri Bilovich†*, Steve Butler†, Steve Gray, David Jennings.

2005: Abeer Almoawdah, Chris Knight, Sam Partington†*, Meri Williams†*.

2004: Tristan Caulfield†, Joanna Julie Church, Robert Holbrook, Emily K. F. Korvin, Philip J. Richards, Stephen M. Richards.

2003: Natalia Boutureira Bello†, Jia Lin, John Edward Mann†, David Robert Pratt, Ping Wong.

†indicates first-class honours for undergraduate dissertations, distinctions for MScs. * indicates a department prize (aprox. 3 available for aprox. 70–100 undergraduates per year.)

Major Research Grants

- 2019–2027 [UKRI Centre for Doctoral Training in Accountable, Responsible and Transparent AI \(ART-AI\)](#), CI in charge of Outreach and public engagement (Eamonn O’Neill PI). Centre derives from my research programme and I arranged many of the partners, including the UK’s Financial Conduct Authority, the Church of England, Google, Deep Mind, and Microsoft. UKRI has asked that exact funding levels not be announced, but combined with partner and university contributions the initial investment is about £10,000,000.
- 2017–2023 *AXA Research Fund Award: Responsible Artificial Intelligence (2017)* One of three recipients awarded globally, topic of philanthropic effort is changed annually. Project title (co-developed after award): “The Limits of Transparency for Humanoid Robotics,”. One postdoc, one part-time administrator, two robots, €250,000. Initially three years, extended for COVID.
- 2010–2011 *United States Air Force Office of Scientific Research* Air Force Material Command, USAF grant number FA8655-10-1-3050, “Understanding Cultural Variation in Antisocial Punishment”, with Benedikt Herrmann, co-author and co-PI. Two postdocs, two investigators, one part-time programmer, \$289,265.65.
- 2008 *euCognition* “Cognitive Systems Outreach through Book and Webpage” euCognition Network Action 044–3 (€46,220), and 2008 *euCognition* “Cognitive Systems Outreach through HE Curriculum” euCognition Network Action 0044–4 (€25,518). Two postdocs (one part time) for nine months, €71,738.
- 2005–2008, *The Engineering and Physical Sciences Research Council (EPSRC)*, Grant GR/S79299/01 (AIBACS), “The Impact of Durative Variable state on the Design and Control of Action Selection”. Emmanuel Tanguy, co-author and named researcher. One PhD student, one research assistant £127,328.
- 2001–2002, *US National Science Foundation* Grant EIA-0132707, “Primate-Inspired Specialized Learning in an Agent Architecture: Safe, Robust, Adaptive Action Selection”, with Marc D. Hauser co-author and PI. One research assistant (self), \$79,215.

Other Funding

- 2016–2017 *Princeton University Center for Human Values*, “Game Technology as an Intervention for Public Understanding of Sociality”, CI and principle author, with Alin Coman (Princeton) **PI**, and Mark Riedl (Georgia Tech) also CI. (US\$32,000).
- 2010–2015 *Czech Science Foundation* “PlanEx: Bridging Planning and Execution”, Roman Barták **PI**, Cyril Brom and Pavel Surynek co-PIs, Bryson named as an “International Co-operator”, (Kč4,355,000).
- 2010 *EPSRC* Vacation Bursary, “Dynamic planning for teachable robotics”, Kingsely Jarrett, named researcher (One undergraduate student for ten weeks, £2500).
- 2006 *euCognition* “Action Selection for Cognitive Systems”, (a network action travel grant that brought Cyril Brom to Bath from Charles University, Prague, €1,300).
- 2005–2006 *Boeing Aerospace*, “Development of Graphical IDE for pyPOSH”, (contract for programming and six months support, \$15,000).
- 2005 *The Nuffield Foundation* Undergraduate Research Bursary, “Understanding the Adaptive Advantage to Costly Communication”. Avri Bilovich, named researcher. (One undergraduate student for six weeks, £940).
- 2005 *Biotechnology and Biological Sciences Research Council (BBSRC)*, Conference funding for “Modeling Natural Action Selection”. Workshop coorganized with Tony Prescott, Anil Seth (£2500).
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- Joanna J. Bryson, “Where Should Complexity Go? Cooperation in Complex Agents with Minimal Communication”, *Innovative Concepts for Agent-Based Systems*, W. Truszkowski, C. Rouff and M. Hinchey, eds., pp. 298–313, Springer, 2003.
- Joanna J. Bryson and Jessica C. Flack, “Action Selection for an Artificial-Life Model of Social Behavior in Non-Human Primates”, *Proceedings of the International Workshop on Self-Organization and Evolution of Social Behaviour*, C. Hemelrijk ed., pp. 42–45, 2002.
- Joanna J. Bryson and Marc D. Hauser, “What Monkeys See and Don’t Do: Agent Models of Safe Learning in Primates”, *Proceedings of the AAAI Symposium on Safe Learning Agents*, M. Barley and H. W. Guesgen, eds., AAAI Press March 2002.
- Joanna J. Bryson, “Embodiment vs. Memetics: Does Language Need a Physical Plant?” in *Developmental Embodied Cognition (DECO-2001)*, R. Pfeifer and G. Westermann, eds.; Edinburgh, July 2001.
- Joanna J. Bryson and Lynn Andrea Stein, “Modularity and Design in Reactive Intelligence”, in *The Seventeenth International Joint Conference on Artificial Intelligence (IJCAI)*, Seattle WA, pp. 1115–1120, Morgan Kaufmann, 2001.
- Joanna J. Bryson and Lynn Andrea Stein, “Modularity and Specialized Learning: Mapping Between Agent Architectures and Brain Organization”, in *The Second International Workshop on Emergent Neural Computational Architectures Based on Neuroscience*, S. Wermter, J. Austin and D. Willshaw, eds.; Springer, Berlin, pp. 98–113, 2001.
- Joanna J. Bryson, “Hierarchy and Sequence vs. Full Parallelism in Action Selection”, *Simulation of Adaptive Behavior 6*, Paris, 2000 pp. 147–156 (originally in *Intelligent Virtual Agents 2*, ed. Daniel Ballin, 1999.)
- Joanna J. Bryson and Lynn Andrea Stein, “Modularity and Specialized Learning in the Organization of Behaviour”, in *Connectionist Models of Learning, Development and Evolution: The Sixth Neural Computation and Psychology Workshop (NCPW6)*, Robert French and Jacques Sougné (eds.), pp. 53–62, Springer, 2001.
- Joanna J. Bryson, Will Lowe and Lynn Andrea Stein, “Hypothesis Testing for Complex Agents”, *NIST Workshop on Performance Metrics for Intelligent Systems*, Washington, DC; Alex M. Meystel and Elena R. Messina (eds.), pp. 233–240, 2000.
- Joanna J. Bryson and Lynn Andrea Stein, “Architectures and Idioms: Making Progress in Agent Design”, *The Seventh International Workshop on Agent Theories, Architectures and Languages (ATAL)*, Boston, C. Castelfranchi and Y. Lespérance (eds.), pp. 73–88, Springer 2000.
- Joanna Bryson, “Making Modularity Work: Combining Memory Systems and Intelligent Processes in a Dialog Agent”, *AISB’00 Symposium on Designing a Functioning Mind*, Aaron Sloman (ed.), pp. 21–30; Birmingham UK, 2000.
- Joanna Bryson, “A Proposal for the Humanoid Agent-builders League (HAL)”, *AISB’00 Symposium on Artificial Intelligence, Ethics and (Quasi-)Human Rights*, John Barnden (ed.), pp. 1–6; Birmingham UK, 2000. (Abstract also appeared in the AISB Quarterly No. 104, Summer/Autumn 2000, ed. Blay Whitby)
- Joanna Bryson, “Creativity by Design: A Behaviour-Based Approach to Creating Creative Play”, *AISB’99 Symposium on Creativity in Entertainment and Visual Art*, ed. Frank Nack, Edinburgh, 1999.
- Joanna Bryson and Phil Kime, “Just Another Artifact: Ethics and the Empirical Experience of AI”, *Fifteenth International Congress on Cybernetics*, pp. 385–390, Namur, 1998.

- Joanna Bryson and Brendan McGonigle, “Agent Architecture as Object Oriented Design”, *The Fourth International Workshop on Agent Theories, Architectures and Languages (ATAL97)*, pp. 15–30, ed. Munindar P. Singh, Springer-Verlag, Providence, 1998.
- Joanna Bryson, “The Design of Learning for an Artifact”, *The AISB Workshop on Learning in Robots and Animals*, ed. Noel Sharkey et. al., Brighton UK, 1996.
- Joanna Bryson, “The Reactive Accompanist: Adaptation and Behavior Decomposition in a Music System”, *The Biology and Technology of Intelligent Autonomous Agents*, pp. 365–376, ed. Luc Steels. Springer, Trento, 1995.
- Joanna Bryson, Alan Smaill, Geraint Wiggins, “The Reactive Accompanist: Applying Subsumption Architecture To Software Design”, University of Edinburgh Department of Artificial Intelligence Research Paper 606, 1992.

Other Reviewed Presentations

- Andreas Theodorou, Bryn Bandt-Law, and Joanna J. Bryson “Game Technology as an Intervention for Public Understanding of Social Investment”, *The Eighteenth International Conference on Social Dilemmas*, Sedona, AZ, 3-7 June 2019.
- Alexander Stewart, Nolan McCarty, and Joanna J. Bryson “Explaining Parochialism: A Causal Account for Political Polarization in Changing Economic Environments”, *The Eighteenth International Conference on Social Dilemmas*, Sedona, AZ, 3-7 June 2019.
- Alexander J. Stewart, Nolan McCarty, Joanna J. Bryson, “Explaining Parochialism: A Causal Account for Political Polarization in Changing Economic Environments”, E-poster presented at the *American Political Science Association (APSA)*, Boston, MA. 30 August–2 September 2018.
- Joanna J. Bryson and Alex J. Stewart, “Diversity versus Structure: A Fundamental Axis of Variation in Evolution?” *Evolution, Evolvability and Change Workshop*, York, UK (but presented remotely), 11–12 April 2018
- Alexander J. Stewart and Joanna J. Bryson, “Explaining Parochialism: A Causal Account for Political Polarisation in Changing Economic Environments”, *European Human Behaviour and Evolution Association (EHBEA)*, Pécs, Hungary, 4th-7th April, 2018.
- “Consciousness is Neither Necessary nor Sufficient for AI Ethics,” in the Workshop *Is Machine Consciousness Necessary for True AI Ethics?*, *International Research Conference Robophilosophy 2018 / TRANSOR 2018*, Vienna, 14–17 February 2018.
- Joanna J. Bryson, Aylin Caliskan Islam, and Joanna J. Bryson, “Semantics derived automatically from language corpora necessarily contain human biases”, *Text As Data*, Northeastern University, Boston, 14–15 October 2016.
- Joanna J. Bryson and Nolan McCarty, “Polarization and Inequality: Towards a Mechanistic Account”. E-poster presented at the *American Political Science Association (APSA)*, Philadelphia, PA. 1–4 September 2016.
- Aylin Caliskan Islam and Joanna J. Bryson, “Discovering individual and collective bias via automated language model analysis”, reviewed poster, *Emergent Meaning*, Lehigh University, PA (in association with *Cognitive Science*, August 10, 2016.
- Aylin Caliskan Islam, Joanna J. Bryson, and Arvind Narayanan “A Story of Discrimination and Unfairness”, reviewed talk, **Best HotPETs talk prize**, *Privacy Enhancing Technologies Symposium*, Darmstadt, Germany, July 22, 2016.
- “Patience Is Not a Virtue: AI and the Design of Ethical Systems”, *AI, Ethics, and Society, the Second International Workshop*, AAAI, Phoenix, Arizona USA, 13th February 2016,
- “Costly punishment as a strategy for optimising public goods investment”, reviewed talk and participant, *Evolution and Warfare: a NIMBioS Investigative Workshop*, Knoxville, Tennessee, 16–18 September 2015.
- Paul Rauwolf and Joanna J. Bryson, “Fairness Evolves Because of Partial Information,” reviewed talk and abstract, *Sixteenth International Conference of Social Dilemmas*, Hong Kong, June 2015.

- Paul Rauwolf, Dominic Mitchell, and Joanna J. Bryson, “Value Homophily Benefits Cooperation but Motivates Employing Incorrect Social Information”, reviewed talk and abstract, *Sixteenth International Conference of Social Dilemmas*, Hong Kong, June 2015.
- Paul Rauwolf and Joanna J. Bryson, “The Evolution of the Impact Bias,” reviewed talk and abstract, *European Human Behaviour and Evolution Association* Helsinki, April 2015.
- “Stories as public goods: The behavioural ecology of our narrative compulsion”, *The Story of Memory Conference: New Perspectives on the Relationship between Storytelling and Memory in the Twenty-First Century*, Roehampton University, London, September 2014.
- Joanna J. Bryson, Karolina Sylwester, James Mitchell and Simon T. Powers, “Personality, Social Strategy, and the Regulation of Public Goods Investment: A Behavioural Ecological Perspective on Variation in Human Economic Behaviour”, four-page extended abstract and poster, in *Collective Intelligence*, June 2014, MIT.
- Paul Rauwolf and Joanna J. Bryson, “Selective Pressure for the Divergence in Decision and Experienced Utility”, four-page extended abstract and poster, in *Collective Intelligence*, June 2014, MIT.
- Yifei Wang, Joanna J. Bryson and Nicholas K. Priest, “Robustness as A Property of Networks Supporting Change: An Example from Artificial Gene Networks”, four-page extended abstract and poster, *Collective Intelligence*, June 2014, MIT.
- Paul Rauwolf, Dominic Mitchell, and Joanna J. Bryson, “Cooperation benefits when homophily motivates dishonesty in gossip.” reviewed talk and abstract, *European Human Behaviour and Evolution Association*, Bristol, April 2014.
- Daniel J. Taylor and Joanna J. Bryson, “Testing the Bond”, reviewed talk and abstract, *European Human Behaviour and Evolution Association*, Bristol, April 2014.
- “Dominance, Fitness, Social Structure and Ecology: Reconciling Several Popular Models” reviewed talk and abstract, *Primate Society of Great Britain Winter Meeting 2013: Modelling primate social organisation*, Linnean Society, London, 11 December 2013.
- “Dominance, Compassion, and Evolved Social: Behaviour: Advisable Roles and Limits for Companion Robots”, talk based on an extended abstract, at *Taking Care of Each Other: Synchronisation and Reciprocity for Social Companion Robots* a workshop of The International Conference on Social Robotics (ICSR), Bristol, UK, 27 October 2013.
- Alice Stuart Lee and Joanna J. Bryson, “Explanations of Matriarchal Social Structures” reviewed talk and abstract *The Fifth Congress of the European Federation for Primatology*, Antwerp, Belgium; 10–13 September 2013; abstract in *Folia Primatologica*, **84**(3–5):326.
- “Punishment As Regulation of Public Goods Investment: Understanding Cultural Variation in Anti-Social Punishment”, with James Mitchell, Simon T. Powers and Karolina Sylwester, reviewed abstract and talk, *The Seventeenth International Conference on Social Dilemmas (ICSD)*, Zurich, 10–13 July 2013.
- Joanna J. Bryson, “Costly punishment as a strategy for optimising public goods investment”, reviewed abstract and talk, *The European Human Behaviour Association Conference*, Amsterdam, 27 March 2013.
- Daniel J. Taylor, Marios Richards and Joanna J. Bryson “On the Excludability of Public Goods”, reviewed abstract and talk, *The European Human Behaviour Association Conference*, Amsterdam, 25 March 2013.
- Dominic Mitchell, Gordon P. D. Ingram and Joanna J. Bryson, “On the reliability of unreliable information: Gossip as cultural memory”, *The European Human Behaviour Association Conference*, reviewed abstract and talk, Amsterdam, 25 March 2013.
- “The EPSRC Principles of Robotics: Applications to Serious Games”, *Ethical Issues and Social Responsibility in Serious Games*, reviewed abstract and talk, Sheffield, 21 January 2013.
- “Dominance, aggression and public goods investment: Explaining anti-social punishment”, *Theoretical and Empirical Aspects of Decision Making*, reviewed abstract and talk, Bristol, 17–18 December 2012.

- “Costly punishment and the regulation of public goods investment”, with Karolina Sylwester, James Mitchell, Simon T. Powers and Daniel J. Taylor, reviewed abstract and poster, *ETH Latsis Symposium 2012: Economics on the Move*, Zurich, 11–14 September 2012.
- “The Valence of Ties and the Regulation of Public Goods Investment”, with Karolina Sylwester, James Mitchell, Simon T. Powers and Daniel J. Taylor, reviewed abstract and talk, *Negative Ties and Social Networks*, Budapest, 19–20 April 2012.
- Simon T. Powers, Daniel J. Taylor and Joanna J. Bryson “Punishment can promote defection in group-structured populations”, reviewed abstract and talk, *The European Human Behaviour Association Conference*, Durham UK March 2012.
- Daniel J. Taylor and Joanna J. Bryson “Rogers’ Paradox: Resolved”, reviewed abstract and poster, *The European Human Behaviour Association Conference*, Durham UK March 2012.
- Bidan Huang, Jason Leake and Joanna J. Bryson, “Humanoid robots and cognitive systems research: An epistemological case study based on the iCub”, reviewed poster, brief talk, and extended abstract at *The International Conference on Development and Learning, (ICDL)*, Frankfurt, August 2011.
- “Internet memory and life after death” reviewed talk and abstract in *Death & Dying in the Digital Age*, Bath, UK 25–26 June 2011.
- “The interplay between cognition and secondary replicators: Could memetics explain human uniqueness?”, reviewed talk and abstract in *Current challenges and applications of comparative cognition (CompCog II)* Prague, 25–27 May 2011.
- “The Impact on Organisms of Transmitting Secondary Replicator Systems”, with Sam P. Brown, reviewed abstract and talk, *The European Human Behaviour Association Conference*, Gießen, Germany 24–26 March 2011.
- “The Scientific Application of Agent-Based Modelling; The Impact on Organisms of Transmitting Secondary Replicator Systems”, solicited talks for the workshop *Microbial Evolution: Modeling and Experimental Techniques*, e-Science Institute, University of Edinburgh, 11–13 January 2011.
- “Social Simulation and Explaining Religion”, talk in the *The Explaining Religion Project (EXREL): How Do Religions Evolve?* symposium of *Religion, a Human Phenomena: The XXth Quinquennial World Congress of the International Association for the History of Religions*. Toronto, Canada, 17 August 2010.
- “Determinants of the Size of Social Species’ Culture” talk and reviewed abstract, *Complexity and Nonlinear Phenomena in Biological Systems*, a one-day meeting organised by the Nonlinear and Complex Physics Group of the Institute of Physics (UK), Bath, 20 May 2010.
- Marios N. Richards and Joanna J. Bryson, “Comparing individuality to phenotypic plasticity in facilitating evolution”, talk and reviewed abstract, *Individual Specialisation: The Association for the Study of Animal Behaviour’s Winter Meeting*, London, 3–4 November 2009.
- Joanna J. Bryson, “Information Dissemination as an Explanation of Troop-Level Aggregation in Fission-Fusion Species with Varied Party Composition”, talk and reviewed abstract *Vertebrate Models of Social Evolution*, Adelboden, Switzerland; 16–18 August 2009.
- Joanna J. Bryson, “Information Dissemination as an Explanation of Troop-Level Aggregation in Fission-Fusion Species with Varied Party Composition”, talk and reviewed abstract *The Third Congress of the European Federation for Primatology*, Zürich, Switzerland; 12–15 August 2009; abstract in *Folia Primatologica*, **80**(2):111.
- Hagen Lehmann and Joanna J. Bryson, “A Unified Account of The Primate Tolerance Spectrum”, talk and reviewed abstract *The Third Congress of the European Federation for Primatology*, Zürich, Switzerland 12–15 August 2009; abstract in *Folia Primatologica*, **80**(2):124.
- Joanna J. Bryson, “Shared Information as an Explanation of Troop-Level Aggregation in Fission-Fusion Species with Varied Party Composition”, talk and reviewed abstract *Multiply Structured Populations in Biology*, Bath UK, 1–3 July 2009.
- Joanna J. Bryson, “What Limits the Biological Evolution of Cultural Evolution?” reviewed abstract and talk presented to *Social Genes, Social Brains and Social Minds*, Budapest 13–15 May 2009.

- Joanna J. Bryson, “Selection for variation: Evolutionary processes affecting dominance, social structure and female mate choice”, reviewed abstract and poster presented to *The European Human Behaviour Association Conference*, St. Andrews, UK, 6–8 April 2009, abstract booklet p. 29.
- Robert A. Jenks, Julia Lehmann and Joanna J. Bryson, “A model of factors generating fission-fusion social dynamics”, reviewed abstract and poster presented to *The European Human Behaviour Association Conference*, St. Andrews, UK, 6–8 April 2009, abstract booklet p. 36.
- Marios Richards and Joanna J. Bryson, “Does learning accelerate evolution?”, reviewed abstract and poster presented to *The European Human Behaviour Association Conference*, St. Andrews, UK 6–8 April 2009, abstract booklet p. 46.
- Hagen Lehmann and Joanna J. Bryson, “Evolutionary Determinates of Social Structure in Macaque Troops”, reviewed abstract and talk presented to *The International Primatological Society’s XXII Congress*, Edinburgh, UK 8 August 2008.
- “What Limits the Biological Evolution of Cultural Accumulation?”, reviewed abstract and poster presented to *The International Primatological Society’s XXII Congress*, Edinburgh, UK 4 August 2008.
- “Information can be free: Implications for recent developments in the evolution of altruism”, *The Sixth Göttinger Freilandtage: Primate Behavior and Human Universals* reviewed abstract and presentation, Göttingen Germany, 11–14 December 2007.
- “Hierarchical organization of intelligence: Ethology and AI perspectives”, The NIPS workshop on *Hierarchical Organization of Behavior: Computational, Psychological and Neural Perspectives*, solicited and reviewed extended abstract and presentation, Vancouver, Canada, 7–8 December 2007.
- “Robots Should Be Slaves”, solicited and reviewed extended abstract and presentation for the Oxford e-Horizons forum *Artificial Companions in Society: Perspectives on the Present and Future*, Oxford University, 26 October 2007.
- Panel participant, *Humans and Humanoids — Perspectives in Cognition and Robotics*, The Research Institute for Cognition and Robots — CoR-University of Bielefeld, 9 October 2007.
- Hagen Lehmann and Joanna J. Bryson, “The Socio-Ecological Model of Female Social Relationships in the Genus *Macaca*: An Agent Based Approach”, reviewed abstract and talk, presented at the biannual meeting of the European Federation for Primatology, 3 September 2007.
- “The Adaptive Advantage of Knowledge Transmission”, reviewed abstract and talk presented to *Evolution of Language 5*, Rome, Italy, 14 April 2006.
- “Embodiment vs. Memetics”, reviewed abstract and talk for *Post-Cognitive Psychology*, Glasgow, UK, August 2005.
- “Learning Action Selection from Observation of Humans in Unreal Tournament” talk at Southwest Regional Meeting on Mathematics, Computation and Biology, University of Western England, Bristol UK, 24 June 2005.
- “Representations Underlying Social Learning”, reviewed abstract and poster presented at Animal Social Learning, St. Andrews, UK, 15–18 June 2005.
- “Artificial Intelligence Models of Primate Intelligence” talk at Southwest Regional Meeting on Mathematics, Computation and Biology, University of Bristol, UK, 21 June 2004.
- “Language Needs 2nd Order Representations and A Rich Memetic Substrate”, reviewed abstract and talk presented to *Evolution of Language 5*, Leipzig, Germany, 1 April 2004.
- “The Relationship Between AI Architectures and Neuroscience”, presentation to *Workshop on Grand Challenge 5: Architecture of Brain and Mind*, De Montfort University, Leicester, 5 January 2004.
- “Artificial Emotions”, presented with Dylan Evans to *Foresight Cognitive Systems Interaction Conference*, Bristol UK, 3 September 2003.

“Modular models of social agents: Modelling the emergence of Macaque social structure”, reviewed abstract and talk *Agent-Based Social Simulation Special Interest Group Meeting*, Barcelona, Spain 3 February 2003.

“Modelling Tolerance: An agent-based model of conflict resolution”, talk at the workshop on *Computer-Aided Methods for International Conflict Resolution and Prevention*, Austrian Research Institute for Artificial Intelligence (ÖFAI), Vienna, Austria, 26 October 2002.

“Representing Cognitive Phenomena in Biological Systems”, invited talk and paper for the *Theoretical Fundamentals of Intelligent Systems* Workshop of the Joint Conference on Information Sciences, A. Meystel ed., Washington DC, 11 March 2002.

Joanna J. Bryson, Keith Decker, Scott DeLoach, Michael Huhns and Michael Wooldridge, “Agent Development Tools”, chapter from the invited panel *The Seventh International Workshop on Agent Theories, Architectures and Languages (ATAL)*, Boston, eds. C. Castelfranchi and Y. Lespérance, pp. 331–338, Springer 2000.

Joanna Bryson, “Primitive Parallax and Parallax Primitives”, *The Third European Conference on Artificial Life*, June 1995. Poster and abstract.

Invited Talks: National and International Academic Conferences and Workshops

“Robots, Love, and Human Relations: Transparency and Consent with Commercial Products” **Keynote**, [9th International Conference on Affective Computing & Intelligent Interaction \(ACII 2021\)](#), ‘Nara’, JP, 28 September–1 October 2021.

“Artificial Intelligence, Ethics, and Being a Doctor,” Cross-Theme Keynote, [First Inria-DFKI European Summer School on AI \(IDAI 2021\)](#) (Themes: Trustworthy AI and AI for Medicine), ‘Palaiseau, FR’, 22 July 2021.

Keynote, [Bias, Trust, and Doing Good: The impacts of digital technology on human ethics, and vice versa](#), *The 14th Multi-Disciplinary International Conference on Artificial Intelligence (MIWAI)*, ‘Mahasarakham, Thailand’, 2 July 2021.

Participant with keynote (“The origins of bias and the limits of transparency”), [Transparency by Design](#), ‘Schloss Dagstuhl’, 6–10 June 2021.

Invited Keynote, [Limits of Transparency: Addressing Barriers to Accountability, Governance Of and by ALgorithms \(GOAL\) International AI Conference](#), ‘Münster’, 9 April 2021.

Invited keynote, “There Is No AI Ethics,” and also session chair, [Implementing AI Ethics AAAI Spring Symposium Series](#), not even pretending to be Stanford, 22 March 2021.

Keynote, [Bias, Trust, and Doing Good: Scientific Explorations of Topics in AI Ethics](#), *AI in Society*, North Carolina State University (virtually), 18-19 February 2021.

Keynote panel (discussing the annual lecture by Lord Timothy Clement-Jones, CBE ‘AI: Time to regulate?’), [Annual Lecture and Conference ‘AI and the Rule of Law: Regulation and Ethics’](#), The Information Law and Policy Centre (ILPC), Institute of Advanced Legal Studies, ‘London’, 19 November 2020.

Keynote [Artificial Intelligence and Human Life: 2025–2070](#), *Good Growth Global Forum: Small Change, Deep Impact*, (video sent to) Seoul, Korea, 9 September 2020.

Keynote, “What Is Good? Social Impacts and Digital Governance” [AI for Social Good](#), Harvard University Center for Research on Computation and Society (originally IJCAI, but pandemic). 21 July 2020.

“Ethics and Regulation for Intelligent Technologies”, invited keynote for *The Good, the Bad and the Regulated: In Search of a Common Denominator for AI in Business and Society (Second annual Leuven AI Law & Ethics Conference (LAILEC))*, Leuven, Belgium, 18 Feb 2020.

“Smart Policies for Artificial Intelligence” invited speaker and participant, *Governance of New Technologies: Technological Innovations, Market Competition, and Public Policy* Workshop at the Technical University of Munich, Akademiezentrum Raitenhaslach, 10-12 February 2020.

- Panel discussant: “Exploring the role and impact of AI in a policy context: Challenges and opportunities for decision-making” with Bruno Lepri, Steve MacFeely, and Emanuele Baldacci, [Applied Machine Learning Days](#), EPFL, Lausanne, CH, 27 January 2020.
- Keynote, “Information professionals and intelligent machines: Can we save the librarians?” *Fantastic Futures: Second International Meeting on AI for Libraries, Archives, and Museums*, Stanford, Palo Alto CA, 4 December 2019.
- “Intelligent Technology: Promises and Challenges for Social Well Being”, *Radiologisk Høstmøte* (Norwegian radiologists annual meeting), Oslo, Norway, 23–25 October 2019.
- “Intelligence by Design: What software engineering can do for transparency and accountability”, guest speaker *Opening the Black Box: Regulatory Perspectives on Automated Decision-Making* Åbo Akademi, Faculty of Law, Turku, Finland, 28 August 2019.
- Panelist, *AI and Ethics* with Cindy Grimm, Julie Carpenter, and Kate Darling, Johns Hopkins University Applied Physics Lab (Heather Roff, host and chair) Baltimore, MD 22 July 2019.
- Keynote “AI Is Necessarily Irresponsible” [The 31st annual workshop of the Swedish Artificial Intelligence Society \(SAIS 2019\)](#) Umeå, Sweden 18–19 June 2019.
- Invited participant / presenter *SIENNA Workshop on the Analysis of Current and Future Ethical Issues in Artificial Intelligence and Robotics*, Uppsala, Sweden 13–14 June 2019.
- “Bias in AI: Who’s in Charge?” invited speaker (with Noel Bairey Merz and Nishi Chaturvedi) in [Equals, right? Is scientific research benefiting everyone equally?](#), The European Bioinformatics Institute of the European Molecular Biology Laboratory (EMBL-EBI), Cambridge, UK, 29 May 2019.
- “Just an Artifact: Maintaining and enhancing human accountability through autonomous systems” [Technology, Security and Warfare: Second Transnational Academic Network for the Study of Armed Drones \(TRANSAD\) Workshop](#) PRIO, Bath, UK 24 May 2019.
- “Because We Matter: Engaging with AI Governance” *AI for Social Good*, Workshop at the International Conference of Machine Learning (ICML) New Orleans, LA, 5 May 2019.
- Invited keynote, “Autonomy for Humans and Machines”, [Mind & World for Humans & Machines](#), hosted by Cambridge Muslim College, Cambridge, UK 4 May 2019.
- “Human Security and Machine Autonomy,” *Ethical and Legal Aspects of Autonomous Security Systems*, Zürich, 2–3 May 2019.
- “Who is responsible for AI?” *Responsible Intelligent Systems: Concepts, Practices and Formal Models*, Utrecht, 11–13 February 2019.
- “Regulating AI”, [Human-Machine-Ecology: A Workshop on the Emerging Risks, Opportunities, and Governance of Artificial Intelligence](#), Princeton, NJ, 11–12 January 2019.
- “The Impact of AI on Human Society”, [Cognitive Computing: Merging Concepts with Hardware](#), Hannover, Germany, 18–20 December 2018.
- “Intelligence by Design: Deliberate Creation and the Ethics of Intelligent Systems,” [When Robots Think: Interdisciplinary Views on Intelligent Automation](#), Münster, Germany, 14–16 November 2018.
- “The Future of AI, Society, and Higher Education” [The Twentieth Brazilian National Forum of Higher Education \(FNESP\): Challenges of the Fourth Industrial Revolution](#). São Paulo, 27–28 September 2018.
- “Consciousness, language, and ethics — without moral agency,” Frontiers of Consciousness Panel, [Varieties of Mind Conference](#), Leverhulme Centre for the Future of Intelligence, Cambridge University, 5–8 June 2018.
- “Generating Publics for your Goods Investment: Trust, Inequality, and Polarization” [Evolution, Cognition, and Rationality: The 6th Toulouse Economics and Biology Workshop](#), IAST, Toulouse, 24–25 May 2018.
- “AI, Economics, and Governance: Challenges of Transnational Intelligence” *AI in Strategic Context: Development Paths, Impacts, and Governance*, Workshop held by UCLA School of Law’s Project on Artificial Intelligence, an initiative of the Program on Understanding Law, Science, and Evidence (PULSE). 4–5 May 2018.

- “Transparency: The Moral, Legal, and Economic Hazards of Anthropomorphising Robots” *Explorable Robotic Systems*, a workshop before Human Robot Interaction (HRI), Chicago, 5 March 2018.
- “The Moral, Legal, and Economic Hazard of Anthropomorphising Robots and AI,” *International Research Conference Robophilosophy 2018/TRANSOR 2018*, Vienna, 14–17 February 2018.
- “Who is responsible for AI?” *Responsible Intelligent Systems: Concepts, Practices and Formal Model*, Utrecht, 11 Feb 2019.
- “There is no AI ethics: The human origins of machine prejudice,” *Applied Machine Learning Days*, EPFL, Lausanne, 27–30 January 2018.
- “The risk of sex and gender bias in developing AI,” invited talk in the panel “Digital biomarkers and new technologies. Novel tools to support women’s brain health,” *1st International Forum on Women’s Brain and Mental Health*, EPFL, Lausanne, Switzerland, 12 December 2017.
- “The real existential threat of AI,” invited talk in the panel “Artificial Intelligence: What next?” *Envision* — a national futurists meeting organised by Princeton undergraduates. Princeton, NJ, 1–3 December 2017.
- “There is no AI ethics: The human origins of machine prejudice,” *Bridging disciplines in analysing text as social and cultural data*, The Alan Turing Institute, British Library, London, 21–22 September 2017. [video](#) (not the best video!)
- “Artificial Intelligence and Real Knowledge,” invited talk in the plenary panel “The Robots are Coming! Ethics, work and scholarly communication in a radically different future,” *The Association of Learned & Professional Society Publishers 10th Annual Conference and Awards*, Grand Hotel Huis ter Duin, Noordwijk, The Netherlands, 13–15 September 2017.
- “Of, For, and By the People: The Legal Lacuna of Synthetic Persons” *Artificial Agency and Collective Intelligence*, Leverhulme Centre for the Future of Intelligence, Cambridge, UK 18 September 2017.
- “We all have a role to play: Games and AI Ethics,” **keynote**, *IEEE Conference on Computational Intelligence in Games (CIG)*, NYU, Brooklyn, NY, 22–25 August 2017.
- Talk: “Trust in the Age of ICT” and panel “Trust and Understanding”, *Trust in the Age of Intelligent Machines*, Leverhulme Centre for the Future of Intelligence, Jesus College, Cambridge, UK, 14 July 2017.
- “Five Reasons Not to Personify AI”, **keynote**, *Big Data: New Challenges for Law and Ethics*, Faculty of Law, University of Ljubljana, Slovenia, 22–23 May 2017. [video](#)
- “The Moral, Legal, and Economic Hazard of Anthropomorphising Robots and AI”, **keynote**, *Robophilosophy: Envisioning Robots in Society — Politics, Power, and Public Space*, Vienna, Austria February 14–17, 2018.
- “There Is No AI Ethics: The Human Origins of Machine Prejudice”, **keynote** *Ethics in Natural Language Processing (#EthNLP)*, Workshop at EACL, Valencia, Spain, 4 April 2017.
- “There Is No AI Ethics: AI Expresses and Extends NI”, *Summit on Human Problem Solving and Artificial Intelligence* (Jacob Sherson), Sandbjerg, Denmark, 28–30 November 2016.
- “Human Autonomy and the Hazards of Principle Agency in an Era of Expanding AI”, **keynote**, *Machine Ethics and Machine Law* (Bipin Indurkha), Cracow, Poland, 18–19 November 2016.
- “What makes a person?”, *Robotics in the 21st century: Challenges and Promises*, Göttingen, Germany 25–28 September, 2016.
- “The Design of Artificial Intelligence and the Root of the Moral Subject” , **keynote**, *Designing Moral Technologies: Theoretical, Practical, and Ethical Issues*, Monte Verità, Switzerland, July 10–15 2016.
- “Embodiment vs Memetics: From Semantics to Moral Patiency through the Simulation of Behaviour”, **keynote**, annual symposia of the *Society for the Study of Artificial Intelligence and the Simulation of Behaviour (AISB)*, Canterbury, Kent, 22 April 2015.

- “Artificial Intelligence and Pro-Social Behaviour”, invited talk in the workshop, *Collective intelligence, coordinated action and communities on the Internet*, Tamás Dávid-Barrett (organiser), Oxford University, 16–17 September 2014.
- “The Ethical Principle of Transparency for Artificially Intelligent Romantic Companions.” *The AISB Symposium on Love and Sex with Robots*, London, 3 April 2014.
- “Beyond thought experiments: The experience of AI in the humanities”, *Autonomy and Automation: Robotics, AI and the Digital Cultural Future*, Bristol, 8 March 2014.
- “Honing Heuristics: The Interaction of Evolution, Learning and Thought”, *Heuristic Mechanisms in Natural and Artificial Cognitive Systems*, at the Bavarian Academy of Sciences and Humanities, Munich, 8–9 October 2013.
- “Punishment As Regulation of Public Goods Investment: Understanding Cultural Variation in Anti-Social Punishment”, *Human Cooperation*, Ruth Mace (organiser) at the University College of London (UCL) Department of Anthropology, 17 September 2013.
- “We’re Already Succeeding (& It’s Already Scary / Wonderful)” *The Future of AI: What if We Succeed?*, **plenary panel** participant with Henry Kautz, Anders Sandberg and Sebastian Thrun, chaired by Stuart Russell at the 23rd *International Joint Conference on Artificial Intelligence (IJCAI)*, Beijing, 9 August 2013.
- “In-Group or Out-Group? A Role for Living Machines in Human Society”, *Societal Impacts of Living Machines*, Tony Prescott (organiser) workshop at *Living Machines*, London, 2 August 2013.
- “Why Do *Some* Chimpanzees Have Laptop Projectors?” *Collective Agency and Cooperation in Natural and Artificial Systems*, Stuttgart Germany, 22–24 July 2013.
- “A Roadmap to the Adoption of Every-Day Domestic Robots”, *CHIST-ERA conference on Call 2013 Definition: Adaptive Machines in Complex Environment*, Brussels, 13 June 2013.
- “Roles for Emotions in Artefacts and Other Agents”, *Affective Computing*, Nottingham UK, 7 September 2012.
- “Bondage as Cognition: Exploiting Physical Constraints to Produce Intelligent Behaviour”, *Physical Cognition & Problem Solving*, The Association for the Study of Animal Behaviour’s Interdisciplinary Workshop, Birmingham UK, 27–28 June 2012.
- “Space, Time and Evolving Cognition”, *Using robotic and computer stimuli in animal behaviour and cognition research*, an EU Comparative Cognition Workshop, Lincoln, UK, 24–25 May 2012.
- “Memory, Action and Expectation — The Means and Extent to Which You and Your Society Construct Your Self”, invited talk and network participant, *The Future of Memory*, The Memory Network, London, 29–30 October 2011.
- “Space, Time and Information: Modelling the Ecology of Cultural Species”, *Modelling Ecological Environments and Agents: Understanding the Past and Predicting the Future*, Hominid Dispersals Research Group, McGill and Montreal Universities, 24–26 October 2011.
- “Cognition and Ecology: What Nature Tells Us About Autonomy”, *Autonomous Activity in the Real World: The Fifth EUCogII Members Conference*, Groningen, 10 October 2011.
- “Why We Share Information: The Evolution of Social Behaviour”, *IJCAI 2011 Workshop on Agents Learning Interactively from Human Teachers (ALIHT)*, Barcelona, 16–17 July 2011.
- “The scientific application of agent-based modelling: From biology to anthropology”, invited talk at the *Interdisciplinary Workshop on Society, Culture and Language*, Plymouth, 11-13 November 2010.
- “The Role of Cognition in Cognitive Systems: From Robots to Primatology”, invited talk for *IEEE Robotics and Automation Chapter (UKRI): The first UK Symposium on Cognitive Robotics and Learning*, Manchester, 20 October 2010.
- “Who is Responsible? Ethics with Robots”, invited talk in the *Social human-robot interaction and ethics* symposium of *Active Ageing — Smart Solutions: The Ambient Assisted Living Forum 2010*, Odense, Denmark, 16 September 2010.

- “Must Cognitive Robots Experience the Terrible Twos? Sensory-Motor Learning & Cognition”, invited twenty-minute response to and one-hour discussion of Linda B. Smith’s plenary, “Grounding Learning in Sensory Motor Dynamics”, *Development of Cognition in Artificial Agents*, EUCogII member’s meeting, Zürich, January 29 2010.
- “A Computation-Enabled Biological Perspective on Cultural Variation”, *Integrating Cultures: Models, Simulations and Applications* The Lorentz Center, Leiden, 6–9 April 2009.
- “Adaptive & Computational Explanations for The Pervasiveness of Social Learning and Altruistic Communication”, at *Organisation, Cooperation and Emergence in Social Learning Agents*, a workshop at The Tenth European Conference on Artificial Life (ECAL ’09), Budapest, 15 September 2009.
- “Time for AI: Emotions, Goals, Turn Taking (and more) for Intelligent Actors”, Games AI & Avatars: Industry/Academia Workshop, Bradford UK, 12 January 2009.
- “The Role of Cognition in Cognitive Systems” *Modelling Cognitive Behaviour*, Avon Gorge Hotel, Bristol UK, 10 October 2008.
- “Crude, Cheesy, Second-Rate Consciousness”, invited discussion / response to Daniel C. Dennett’s plenary, *The Second Vienna Conference on Consciousness (2008): The Brain and its Self*, Vienna, Austria, 26 September 2008.
- “Cognition (and Robots)”, *Humans and Humanoids — Perspectives in Cognition and Robotics*, The Research Institute for Cognition and Robots — CoR-Lab, University of Bielefeld, 9 October 2007.
- “AI Architectures (or State Requirements for Human-like Action Selection)” *Network Meeting on Cognitive Architectures*, The European Network for the Advancement of Artificial Cognitive Systems, Munich Airport, 29 June 2007.
- “Agency and Spaces: A Proposal for Behavior-Oriented Design of Intelligent Environments”, invited presentation for *HCI and Cognitive Modelling in Ubiquitous Knowledge Discovery* Barcelona, Spain 20 April 2006. Also invited participant in the same group’s meeting in Berlin, 23 September 2006.
- “Emotions as Durative State for Action Selection”, invited panel presentation at *AISB: Motivational and Emotional Roots of Cognition and Action*, Hatfield, UK, April 2005.
- “Representing Cognitive Phenomena in Biological Systems”, invited talk and paper for the *Theoretical Fundamentals of Intelligent Systems* Workshop of the Joint Conference on Information Sciences, A. Meystel ed., Washington DC, 11 March 2002.
- “Agent Development Tools”, invited panel (with Keith Decker, Scott DeLoach, Michael Huhns and Michael Wooldridge) *The Seventh International Workshop on Agent Theories, Architectures and Languages (ATAL)*, Boston, 2000 (see also chapter).

Invited Talks: Universities, Companies, Local Workshops and Research Institutes

- “AI Consciousness & Ethics with Joanna Bryson”, Women in AI, ‘Switzerland’ (who needs to specify a city now?), Marisa Tschopp and Nicole Lemke, hosts. 1 July 2021.
- “Artificial Intelligence, Ethics, and the Limits of Transparency”, ‘Ruhr-Universität Bochum’, (Eva Weber-Guskar, host), 29 June 2021.
- Participant and ‘intervention’ *Workshop: A humanities-led intervention into responsible and ethical AI*, ‘London’, Ada Lovelace Institute and the Royal College of Art, 9 June 2021.
- [Bias, Trust, and Doing Good: Scientific Explorations of Topics in AI Ethics](#) *Lecture Series in AI Ethics & Ethical AI*, Faculty of Arts, Hong Kong Baptist University (Jiji ZHANG, host), ‘Hong Kong’, 14 April 2021.
- [Bias, Trust, and Doing Good: Scientific Explorations of Topics in AI Ethics](#) *Schwartz Reisman Institute weekly seminar series*, University of Toronto (Gillian Hadfield, host), ‘Toronto’, 24 March 2021.
- [Bias, Trust, and Doing Good: Scientific Explorations of Topics in AI Ethics](#) *AI and Law talk series*, McGill University Faculty of Law (Alexander Agnello, host), ‘Montreal’, 19 March 2021.

“Human-Centric AI Is More than Woke”, speaker in the *Roles for the EU in Artificial Intelligence Governance: A Winning Near-Term End Game* session of the *The EU as a Normative Power* talk series. University College Frieberg, 25 February 2021.

‘Maintaining Human-Centric Artificial Intelligence’ Cardiff Centre for Artificial Intelligence, Robotics and Human-Machine Systems (IROHMS, Chris Wallbridge, host), Cardiff University, 24 February 2021.

[Bias, trust, and doing good - Scientific explorations of topics in AI ethics](#) Women in Science Seminar Series, Kings College, London University, 17 February 2021.

[Personal and Transnational Economic Impacts of AI and Digital Technology](#) paid keynote, [Fairness, Accountability, Transparency and Ethics \(FATE\) in AI](#), CyCAT Winter School ‘Cyprus’ (online), 11 January 2021.

[Artificial Intelligence and Human Lives: Looking forwards 2025-2070](#), *Victor Suchar Christmas Lecture*, Bath Royal Literary and Scientific Institution (BRSLI), ‘Bath’, 17 December 2020.

[What Is Good? Social Impacts of AI and Digital Governance](#) in the series *Taming the Machines — Governance and Regulatory Challenges (WiSe 20/21)*, ‘at’ Universität Hamburg (Judith Simon, host) 12 November 2020.

Extemporaneous (accidentally) talk on bias and AI, *Prestige Project: Gender Balance in Research Leadership*, ‘at’ UiT, The Arctic University of Norway, 28 October 2020.

“The Age of AI and the Future of Work”, lecture in the *AI & Ethics* course of Alice Oh, ‘at’ (virtually) Korea Advanced Institute of Science and Technology (KAIST) ‘Daejeon, Korea’, 7 October 2020.

“Of Ethics and Algorithms” (assigned title was “Ethics of Algorithms” but obviously that was too anthropomorphic for me), keynote at *media.think.tank 2020: KI und Film — Chances and Challenges of Artificial Intelligence for the Media Industry*, Vertretung des Landes Brandenburg beim Bund (im Berlin). 29 September 2020.

[What Is Good? Social Impacts of AI and Digital Governance](#), talk to *Tech Ethics London*, 18 September 2020.

AI & Ethics: What’s the role of people in an age of intelligent machines? #futurework20 (sponsored by Microsoft Berlin and the Bundesvereinigung der Deutschen Arbeitgeberverbände (BDA)), Berlin (really! hybrid live!), 8 September 2020.

[The role of humans in an age of intelligent machines](#) The Alexander von Humboldt Institute for Internet and Society (HIIG) — live in Berlin to an empty theatre, broadcast online. 25 May 2020.

“AI is Necessarily Irresponsible”, *Institute for Ethics in Artificial Intelligence (IEAI)*, Technical University of Munich (virtual, hosts: Caitlin Corrigan and Christoph Lütge), 14 May 2020.

“Generating Publics for your Goods Investment Inequality, Polarisation, and Trust”, Machine Learning Group, Université Libre de Bruxelles (host: Tom Lenearts), 18 February 2020.

Guest speaker in the seminar series *Ethical, empirical, and social implications of engineering artificial and human intelligence* at Villanova University, Pennsylvania (hosts: Brett M. Frischmann and Georg Theiner), 7–8 November 2019.

- Closed seminar discussing a draft of my forthcoming book, including talk “Intelligent Technology: Promises and Challenges for Social Well Being”,
- luncheon with the Women in Tech,
- public lecture “The Role of Humans in an Age of Intelligent Machines”

Panelist (with Paul Nemitz, Helen Margetts, Geraint Rees, and chair Oliver Patel) [The Future of Artificial Intelligence: Ethics, Policy and Regulation](#), *UCL European Institute*, London, UK 3 October 2019.

Guest speaker and participant [Reconfiguring Human-AI relationships](#), Tilburg Institute for Law, Technology, and Society (TILT), NL, 12–13 September 2019.

“Regional, National, and Transnational Regulation of Artificial Intelligence”, Hertie School of Governance (Gerhard Hammerschmid, host), 27 August 2019.

Visit on AI ethics to Facebook, Menlo Park, CA, 30 July 2019.

Visit on AI ethics to the Center for the Fourth Industrial Revolution at the World Economic Forum, San Francisco, CA 31 July 2019.

“What I tell governments about governing AI,” *Intelligent Interactive Systems Group* (Krzysztof Gajos, host, also spoke at their reading group on social justice and civic engagement), Department of Computer Science, Harvard, 9 April 2019.

Towards a New Enlightenment: Ensuring Responsibility in the Age of AI and Big Data Invited panel (and reception) hosted by BBVA and Technology Review, with Carlos Torres Vila, Alex “Sandy” Pentland, and Elizabeth Bramson-Boudreau (chair). Bartos Theater, MIT Media Lab, Cambridge MA, 8 April 2019.

“Human Minds and Machine Intelligence: Who’s the Master?” Aberystwyth University, Department of Computer Science (Alexandros Giagkos, host), 18 March 2019.

“What Is the Role of People in an Age of Intelligent Machines?” **Grand Challenges annual lecture series**, Keele University, hosted by their Institute of Liberal Arts and Sciences, 13 February, 2019.

“Human Control of Machine Intelligence”, [Law, Technology, and Society Lunchtime Series](#) (Thomas Buocz, host) University of Natural Resources and Life Sciences (BOKU), Vienna, 13 December 2018.

“Ethical and Responsible AI – What Do We Need to Think About?” *5th #Data Master Class: On Responsible AI*, Paris, 9 November 2018.

“There Is No AI Ethics — Five Reasons Not to Other AI,” (plus highlights concerning regulation given recently to the EC), Google’s Ethical AI team (Margaret Mitchell, host), Seattle, 9 August 2018.

“Anthropomorphising AI Is an Impediment to a Stable Society,” Microsoft Research Seminar, Jaime Teevan and Ece Kamar, hosts, Seattle, 6 August 2018.

“Patience Is Not a Virtue: Why Moral Actions Do Not Require Moral Subjects,” invited talk at *Are Technologies Engineering Human Identity?* a SMART Ethics Workshop (chair: Raja Chatila), Sorbonne Université, Paris, 4 July 2018.

“Why Robots Must Be Property,” Edinburgh Centre for Robotics, Heriot-Watt University (Verena Rieser, host), Edinburgh, 30 May 2018.

Three talks at the MindFire Mission 1 meeting, in Davos, Switzerland 12–14 May 2018.

- “The Ethical Principle of Transparency for Artificially Intelligent Romantic Companions”
- “Towards Human-Level AI: A Role for Consciousness”
- “From psychology to robots to philosophy to biology: tips from an interesting academic life”

“Transparent and Accountable AI and Machine Learning: A Role for Professional Organisations,” first act of a double bill with Thomas Bradley (CTO of Nvidia), *AI & Machine Learning: the need for standards and an example of the latest in hardware solutions*, BCS Bristol Branch, Bristol, 18 April 2018.

[The Moral, Legal, and Economic Hazard of Anthropomorphising Robots and AI](#), Innovations Talk, School for the Future of Innovation in Society, Arizona State University (Miles Brundage, host), Phoenix, 2 April 2018.

“Patience Is Not a Virtue,” *W3995: AI Safety, Ethics, and Policy*, Columbia University (Chad DeChant, host), New York City, 28 March 2018.

“Generating Publics for your Goods Investment: Trust, Inequality, and Polarization,” Mind, Technology, and Society Talk Series, Cognitive and Information Sciences, University of California, Merced (Paul Smaldino, host), 19 March 2018.

Panellist at a corporate event on AI in finance sharing the stage with among others the robot called Sophia. London, 3 March 2018.

Invited lecture series as Whidden Lecturer: “The Good, The Bad, and The Synthetic: A New Perspective on Sociality,” (academic talk) and “We Didn’t Prove Prejudice Is True: Why and When Machines Have Human Bias” (public talk). Also “Models and Morality: How Can Computing Contribute to Knowledge?” a graduate student breakfast talk. McMaster University (Eugenia Zuroski, host), Hamilton, Ontario, Canada. 28 February–2 March.

“A discussion of AI ethics”, Cambridge University Ethics in Mathematics Society (CUEiMS, hosted by Maurice Chiodo), 12 February 2018.

“Can Interactive Intelligent Artefacts Be Ethical?” Cyber Security Seminar Series, Department of Computer Science, University of Oxford, 2 February 2018.

Ethical issues in AI, a Machine Learning tutorial for Imperial College London. Consisted actually of two different talks, “We didn’t prove prejudice is true: Why and when machines have human bias,” and “Embodiment versus memetics: Moral responsibility in an era of semantic machines.” London, 31 January 2018

“Artificial Intelligence and Real Knowledge,” Sage Publishers (Ian Mulvaney), London, 14 December 2017.

Invited lecture series as Visiting Professor for Gender Studies: “We didn’t prove prejudice is true: Why and when machines have human bias,” and “Why AI ethics is a feminist issue: The legal and moral lacuna of machine rights;” also **postgraduate seminar series:** *Using the tools of theoretical biology and AI social simulation to understand human behaviour* “(1) Some Research and Methods in and Using Artificial Intelligence,” “(2) Primate Social Organisation,” “(3) Why Information Can Be Free: Culture, Cooperation, and Trust,” and “(4) Cultural Variation in Public Goods Investment and Political Polarisation.” The Center of Excellence “Cognitive Interaction Technology” (CITEC), Bielefeld University, 16–22 November 2017.

Distinguished lecture, “AI Ethics: Artificial Intelligence, Robots, and Society,” Interdisciplinary Lab for Intelligent and Adaptive Systems (ILIAS, Christoph Schommer), University of Luxembourg, 7 November 2017.

“Of, For, and By the People: The Legal Lacuna of Synthetic Persons” Delft Design for Values Institute (Jeroen van den Hoven and Virginia Dignum), Delft University, 10 October 2017.

“Human Autonomy and the Hazards of Principle Agency in an Era of Expanding AI”, *Collibra* (Pieter De Leenheer), New York, NY, 1 August 2017.

“Transhumanism, AI, and Society”, Chair Ethique et Transhumanisme, Catholic University of Lille, France, 12 July 2017.

“Understanding the impact of artificial intelligence on human society”, *Workshop experiments, morals and machines*, Lille, France, 11 July 2017.

“Does Identifying with AI Affect Human Society?” Softbank Robotics (Angelica Lim), Paris, France, 10 July 2017.

“Postfactualism, Polarisation, and the Computational Utility of Human Identity”, keynote, UCL annual Complexity students retreat, Cumberland Lodge in Windsor Great Park, 30 May 2017.

“Current and Potential Impacts of Artificial Intelligence and Autonomous Systems on Society” **30-page commissioned whitepaper for the OECD**, still under embargo as of March 2019, but delivered 15 May 2017.

“Generating Publics for your Goods Investment: Trust, Inequality, and Polarization”, The Institute for New Economic Thinking at the Oxford Martin School, (Eric Beinhocker) Oxford University

Invited speaker and panellist in the panel “Ethics of Machine Learning Research” at *Center for Information Technology Policy (CITP) Conference: Ethics of Computer Science Research* Princeton, NJ, 5 May 2017. [video](#)

“There Is No AI Ethics: What Machine Prejudice Teaches Us About Ourselves”, *Airbnb Data Science and Analytics Learning Lunch*, San Francisco, CA. 16 March 2017.

Keynotes (two): “Embodiment versus Memetics: what AI semantics tells us about human intelligence,” and “Human Autonomy and the Hazards of Principle Agency in an Era of Expanding AI” *Moral Machines? Ethical Implications of Contemporary Robotics*, ETH, Zürich, 23–24 February 2017. [videos](#)

- “Human Autonomy & the Hazards of Principle Agency in an Era of Expanding AI” followed by a discussion of the Draft Report of the European Parliament Resolution on Civil Law Rules on Robotics, *Technology & Society Reading Group, Center for Information Technology Policy*, Princeton University, 17 January 2017.
- “Generating Publics for your Goods Investment: Trust, Inequality, and Polarization”, Lichtenstein Institute for Self Determination, Princeton University (Wolfgang Danspeckgruber), 1 December 2016.
- “Generating Publics for your Goods Investment: Trust, Inequality, and Polarization”, The Interacting Minds Centre, Århus University (Andreas Roepstorff), 25 November 2016
- “Five Reasons Not to Personify AI”, Elisa Academy (for Journalists and Media), Helsinki, Finland 24 November 2016.
- “Five Reasons Not to Personify AI”, **keynote**, *Workshop on Responsible Robotics* (Arto Laitinen), University of Tampere, 23 November 2016.
- “Cooperative is not boolean: How we choose publics for our goods investment”, The Political Economy Research Group (PERG), with the Political Behavior Research Group (PolBeRG), at Central European University, Budapest, 5 October 2016.
- “The computational utility of human identity”, Magyar Tudományos Akadémia (Hungarian Academy of Science), Budapest, 4 October 2016.
- “Embodiment vs Memetics: Intelligence, Language, and the Place of AI in Human Society” , School of Computer Science (Kristinn Thórisson), Reykjavik University, 16 September 2016.
- “Privacy vs. Public Memory”, Technology and Society Working Group, Center for Information Technology Policy, Princeton, 26 April 2016.
- “AI, Privacy, and Human Identity”, Interdisciplinary Center for Bioethics, Yale University (Wendall Wallach), Autumn 2016.
- “The evolutionary and computational utility of human identity”, Center for Computational Molecular Biology , Brown University (Daniel Weinreich), 2 March 2016.
- “Learning, Evolvability, and GRN (or How we could all get rich)”, Weinreich Lab, Brown University (Daniel Weinreich), 1 March 2016.
- “The evolutionary and computational utility of human identity”, Pentlandians, Media Lab , MIT (Sandy Pentland), 1 March 2016.
- “The computational utility of human identity”, Cognitive Science, Tufts University (Daniel Dennett), 29 February 2016.
- “Understanding and addressing the anti-social punishment of investment in the public good”, Center for Information Technology Policy, Princeton University, 17 December 2015.
- “Embodiment versus Memetics: Intelligence, Language, and the Place of Robots in Human Society,” EECS Distinguished Lecturer Seminar Series, Queen Mary, University of London, 9 December 2015.
- “Gamifying Social Order”, Entertainment Intelligence Lab (Mark Riedl), Georgia Institute of Technology, 4 December 2015.
- “Cognition, communication, dominance, and risk: Finished and unfinished models of the socioecology of cognitive strategies”, Daniel Rubenstein’s Group, Ecology and Evolutionary Biology, Princeton, 6 November 2015.
- “What If We All Get Smarter? An Ecological Perspective on Cognition, Computation, Human Society, and Artificial Intelligence”, Centre for Quantum Photonics, University of Bristol (Jeremy O’Brien), 9 October 2015.
- “Costly punishment as a strategy for optimising public goods investment”, Levin Lab Tea (Simon Levin), Ecology and Evolutionary Biology, Princeton, 23 September 2015.
- “Costly punishment as a strategy for optimising public goods investment”, Social and Cultural Evolution Working (SCEW) Group (Erol Akçay), University of Pennsylvania, Philadelphia, 4 September 2015.

- “Semantics, Consciousness, Ethics... The Reality of AI Kicks Philosophy Out of the Armchair”, Philosophy, Psychology, and Informatics Reading Group; Department of Philosophy (David Carmel), Edinburgh, 21 January 2015.
- “Regulating the Singularity”, Centre for Research in Intellectual Property and Technology Law, Edinburgh, 27 May 2014.
- “Containing the Intelligence Explosion: The Role of Transparency”, Oxford Martin School, University of Oxford, 14 May 2014.
- “From OOD to Moral Subjectivity: What Does It Take to Build ‘Real’ AI?”, Department of Informatics, Edinburgh, 17 January 2014.
- “Designing Intelligent Systems”, Space Information and Remote Sensing Laboratory (Jihao Yin), Beihang University, Beijing, China, 10 August 2013.
- “Costly punishment as a strategy for optimising public goods investment” Department of Ecology and Evolution (Laurent Lehmann), Université de Lausanne (UNIL), Switzerland, 16 July 2013.
- “From OOD to Moral Subjectivity What Does It Take to Build ‘Real’ AI?” The Learning Algorithms and Systems Laboratory (LASA, Aude Billard), École Polytechnique Fédérale de Lausanne (EPFL), Switzerland, 15 July 2013.
- “From OOD to Moral Subjectivity: What Does It Take to Build ‘Real’ AI?”, Institute for Artificial Intelligence, University of Bremen, 11 January 2013.
- “Dominance, Aggression and Public Goods Investment: Explaining Anti-Social Punishment”, Mannheimer Zentrum für Europäische Sozialforschung, Mannheim, 6 November 2012.
- “From OOD to Moral Subjectivity: What Does It Take to Build ‘Real’ AI?”, Department of Computer Science, Birmingham, December 2012.
- “Cognition, Culture and Social Investment: Computational and Evolutionary Perspectives”, Department of Biosciences, University of Exeter (Sasha Dall), 15 November 2012.
- “Cognition, Culture and Social Investment: Computational and Evolutionary Perspectives”, Department of Computer Science, Sheffield, 12 November 2012.
- “Understanding Antisocial Punishment of Public Goods Contributors”, *Behavioural Finance and Economics Workshop*, Bath, 8–9 October, 2012.
- “Bonds that Make Us Freer: The Role of Cognition in Constructing Cognitive Systems”, *Informatics Institute*, University of Amsterdam, 29 May 2012.
- “Cognition, Culture & Social Investment: Computational and Evolutionary Perspectives”, *Department of Zoology*, Cambridge, 23 May, 2012.
- “Cognition and Ecology: What Nature Tells Us About Autonomy”, *Department of Informatics*, University of Edinburgh, 12 December 2011.
- “Understanding Cultural Variation in Social Behaviour: A Simulation-Based Approach to Anthropology”, *Department of Computer Engineering*, Koç University, Istanbul, 2 December 2011.
- “Cognition and Ecology: What Nature Tells Us About Autonomy”, *Centre for Research in Cognitive Science (COGS)*, University of Sussex, 20 October 2011.
- “Evolution and information: The biology of social learning.” *Evolution@Bath&Bristol*, Bath, 26th September 2011.
- “Sharing Information: The Adaptive Value of Social Behaviour”, The Learning Algorithms and Systems Laboratory (LASA, Prof. Aude Billard), École Polytechnique Fédérale de Lausanne (EPFL), Switzerland, 15 June 2011.
- “Why Information Can Be Free: The Evolutionary Origins of Collective Intelligence”, Human Dynamics Laboratory (Alex Pentland), The Media Laboratory, Massachusetts Institute of Technology (MIT), 17 May 2011.
- “Modelling the evolution of social behaviour: Can sharing valuable information be adaptive?”, Ecology and Evolution Group (Prof. Torben Dabelsteen), Department of Biology, University of Copenhagen, 13 May 2011.

- “The Utility of Human Social Motivations: Biology, Individuality, and Culture”, Department of Computing (Eduardo Alonso), City University London, 28 February 2011.
- “Modelling social evolution: The role of space & time in the evolution of co-operation”, Human Evolutionary Ecology Group (Prof. Ruth Mace), Department of Anthropology, University College of London, 25 January 2011.
- “The Utility of Human Social Motivations: Biology, Individuality, and Culture”, School of Computing and Mathematics (James Borg), Keele University, UK, 17 November 2010.
- “The scientific application of agent-based modelling: From biology to anthropology”, The Department of Software and Computer Science Education (Cyril Brom), Charles University, Prague, 19 November 2010.
- “The Biological Basis of Human Social Motivations: Selective Pressure for Culture and Individuality”, Faculty of Social Sciences, Carl von Ossietzky Universität Oldenburg, 31 May 2010.
- Joanna J. Bryson and Will Lowe, “Agent-Based Modelling for Social Science: Modelling & Cultural Evolution”, invited presentation to *The Second EXREL (Explaining Religion) Project Conference*, Centre for Anthropology and Mind, Oxford, UK; 17–19 August 2009.
- “Adaptive Trade-Offs Concerning Cognition and Culture”, Oxford University, Department of Experimental Psychology, 16 June; also Oxford University, Centre for Anthropology & Mind, 17 June 2009.
- “Understanding Human Social Motivations: Modeling the Evolution of Cognition and Culture”, Central European University, Department of Philosophy, Budapest 2 June 2009.
- “Time for AI”, The Austrian Institute for Artificial Intelligence (ÖFAI), Vienna, 14 May 2009.
- “Evolving Origins of Behaviour: Imitation, Culture and Cognition”, University of Sussex, Brighton UK, 6 May 2009.
- “What limits the biological evolution of cultural evolution?”, Institute of Ecology and Evolution, Bern University, 25 February 2009.
- Two talks (in a small one-day workshop): “Time for AI” and “Why information can be free: The evolution of altruistic communication and its impact on social learning”, Department of Computer Science, Charles University Prague, 30 January 2009.
- “The Role of Cognition in Cognitive Systems”, AI Lab, Department of Informatics, University of Zürich, 9 December 2008.
- “Why information can be free: The evolution of altruistic communication and its impact on social learning”, Department of Behavioural Biology, University of Utrecht, 18 November 2008.
- “Why information can be free: The evolution of altruistic communication and its impact on social learning”, The Konrad Lorenz Institute for Ethology, Wilhelminenberg Seminar, 12 November 2008.
- “What limits the biological evolution of cultural evolution? Modularity in evolution and learning”, School of Computer Science, The University of Birmingham, 13 June 2008.
- “What limits the biological evolution of cultural evolution? Modularity in evolution and learning”, School of Computer Science, The University of Nottingham, 11 June 2008.
- “What limits the biological evolution of cultural evolution? Modularity in evolution and learning”, Centre for Policy Modelling, Manchester Metropolitan University, 10 June 2008.
- “What limits the biological evolution of cultural evolution? Modularity in evolution and learning”, The Konrad Lorenz Institute for Evolution and Cognition Research, Vienna, 5 June 2008.
- “State Requirements for Action Selection”, Center for Connected Learning and Computer-Based Modeling, Northwestern University, 3 April 2008.
- “Conflict and Collaboration: Modeling Primate Social Behavior”, Centre for Complexity Science, Imperial College London, 15 January 2008.
- “A Primer on AI for Domestic Robots: Does Thinking Help?” Centre for Non-Linear Mechanics, University of Bath, 20 November 2007

- “The Role of Cognition in Cognitive Systems” School of Computer Science, University of Birmingham, 9 October 2008.
- “Action Selection for Human-Like Intelligence”, Lionhead Studios, Guildford, UK 2 July 2007.
- “Why Information Can Be Free”, Department of Psychology, University of Chicago, 10 April 2007.
- “Action Selection for Human-Like Intelligence”, Center for Technology & Social Behavior, Northwestern University, 4 April 2007.
- “Semantics from Memetics”, Centre for Cognitive Neuroscience and Cognitive Systems, University of Kent, 14 March 2007.
- “Evolving Cultural Evolution”, The Konrad Lorenz Institute for Evolution and Cognition Research, Vienna, 12 March 2007.
- “Embodiment vs. Memetics”, Department of Philosophy, Universiteit Utrecht, 26 September 2006.
- “Action Selection as Intelligent Systems Integration”, Google, Mountain View, CA, 15 August 2006.
- “Intelligence by Design”, Joanneum Research, Graz, Austria, 4 July 2006.
- “Intelligence by Design”, Boeing Phantom Works, Seattle, 7 June 2006.
- “Conflicts & Collaboration: Modelling of the Evolution of Primate Social Behaviour”, Department of Psychology, University of Sheffield, 12 May 2006.
- “Intelligence by Design”, Centre for Interactive Intelligent Systems, University of Plymouth, UK, 28 April 2006.
- “Intelligence by Design”, Department of Software and Computer Science, Univerzita Karlov (Charles University), Prague, 14 January 2006.
- “Intelligence by Design”, School of Computer and Communication Sciences, EPFL, Lausanne, Switzerland, 18 November 2005.
- “Conflicts & Collaboration: Agent-Based Modelling of Primate Social Behaviour”, Artificial Intelligence Lab, Department of Informatics, University of Zurich, 15 November 2005.
- “Conflict and Collaboration: Modeling Primate Social Behavior”, Northwestern Institute of Complex Systems (NICO), Northwestern University, 18 October 2005.
- “Modularity, specialization, and an innate bias for reason”, Department of Physiology, Northwestern University, 17 October 2005.
- “Building and Organising Heterogenous Modular Intelligent Systems: Intelligence by Design”, Bath Institute of Complex Systems, 9 May 2005.
- “Complex or Complicated? Agent-Based Models of Primate Societies”, Middlesex University (London), 9 February 2005.
- “Humanoid Faces for Assistive Ambient Intelligent Technology”, Bath Institute of Medical Engineering, Royal United Hospital, UK, 7 February 2005.
- “Humanoid Faces for Assistive Ambient Intelligent Technology”, The Institute for Learning and Research Technology, University of Bristol, UK, 18 November 2004.
- “Humanoid Faces for Assistive Ambient Intelligent Technology”, Institute for Ageing and Health, University of Newcastle, UK, 22 September 2004.
- Invited lecture series:** “Reactive and Behavior-Based AI”, “Consciousness is Easy but Learning is Hard”, “Intelligence by Design”, Electronics and Telecommunications Research Institute (ETRI), South Korea, 16–18 August 2004.
- “Intelligence by Design”, Korea Advanced Institute of Science and Technology (KAIST), 18 August 2004.
- “Reactive and Behavior-Based AI” and “Intelligence by Design”, School of Electrical and Computer Sciences, Hanyang University, South Korea, 19 August 2004.
- “Intelligence by Design”, Department of Computer Science, University of Hertfordshire, 20 April, 2004.

- “Modularity, specialization, and an innate bias for reason”, Department of Computer Science, University of Birmingham, 26 January 2004.
- “Conflict Resolution in Monkeys, Agents and Modules”, Institute of Informatics, Humboldt University, 16 December 2003.
- “Intelligence by Design”, Department of Computer Science, University College Dublin, 23 June 2003.
- “Conflict Resolution in Monkeys, Agents and Modules” Department of Computer Science, University of Nottingham, 15 May 2003.
- “Modularity, specialization, and an innate bias for reason”, Centre for Mathematical Biology, University of Bath 30 April 2003.
- “Modularity, specialization, and an innate bias for reason”, Division of Informatics Programme of Reasoning Seminar, University of Edinburgh 2 August 2002.
- “Modularity in Artificial and Natural Intelligence”, Computer Science Department at the University of Vermont, 26 February 2002
- “Intelligence by Design: Principles of Modularity and Coordination for Engineering Complex Adaptive Agents”, BBN, Cambridge MA, 16 October, 2001
- “Simple Heuristics in Complex Agents”, Adaptive Behavior and Cognition Group, The Max Planck Institute of Human Development, Berlin, 28 August 2001.
- “Intelligence by Design: Principles of Modularity and Coordination for Engineering Complex Adaptive Agents”, Cambridge Basic Research (Nissan), 23 April, 2001
- “Making Modularity Work: Progress in Complete Agent Architectures”, Oberlin College, Department of Computer Science, 3 November, 2000
- “Intelligence by Design: Specialized Learning and Behavior-Based AI” Machine Learning Research Group, The University of Bristol; 30 May, 1999
- “What’s Wrong with Behavior-Based AI (and How to Fix It)” University of Aarhus (Denmark), Department of Computer Science; 26 May, 1998
- “Dynamic Cognitive Architectures and Artificial Intelligence”, Glasgow Caledonian University, Department of Psychology; 18 October, 1996
- “What’s Wrong with Behavior-Based AI (and How to Fix It)” University of Wales, Aberystwyth; Department of Computer Science; 25 July, 1996
- “What’s Wrong with Behavior-Based AI (and How to Fix It)” Free University of Brussels, Artificial Intelligence Laboratory; 20 June, 1996
- “What’s Wrong with Behavior-Based AI (and How to Fix It)” University of Zurich, Artificial Intelligence Laboratory; 18 June, 1996
- “The Human-Computer Interface — Applications in AI”, Living Neurons on Silicon Group, University of Edinburgh 15 May, 1996
- “When Robots Hum Along: Music meets Behavior-Based AI” AI and Music Group, University of Edinburgh; 8 May, 1996
- “Complex Behavior in Reactive, Behavior-Based Systems” Robot and Vision Group, University of Edinburgh; June, 1995
- “The Humanoid Project (or What’s Happening at MIT)”, Computer Science Department, Trinity College, Dublin; 25 March 1994

Public Policy: Talks, Panels, Expert Consultations

Notes: Authored policy documents are listed by how published, not here. Primarily academic meetings on policy are under academic talks. See also Board and Council Memberships, p.2.

Expert testimony and panel discussion, “[The use of automated decision-making tools and distributed ledger technologies to improve quality and quantity of information to consumers](#), at the hearing [Consumer protection and automated decision-making tools in a modern economy](#), *European Parliament Committee on the Internal Market and Consumer Protection* ‘Brussels’, 27 September 2021.

Invited panellist and participant, [International Conference: Ethics and Artificial Intelligence](#) Under the patronage of the presidency of Italy, coordinated by the Aspen Institutes of Italy, France, and Germany. On the first panel “AI Ethical challenges for business and society” and the preceding press conference, with the Italian Minister of Education. Venice, IT (really!) 24–25 September 2021.

“Artificial Intelligence and Human Cooperation”, [Human-AI Teaming Through Warfighter-Centered Designs Workshop](#), The [US] National Academies of Sciences, Engineering, and Medicine, sponsored by the US Air Force Research Lab (AFRL), 28 July 2021.

Invited participant with talks on two of the three panels, [Regulation of Artificial Intelligence—Ethical and Fundamental Rights Aspects: European Union and International Perspective](#), ‘Slovenia’ (for their EU presidency), 20 July 2021.

- “Regulation of AI — Obstacle or Enabler?” for Panel 1a, *What is Artificial Intelligence and why does regulation matter?*, with Maja Bogataj Jančič (chair), Michael O’Flaherty, and Miha Lobnik.
- “AI and Other Acts” for Panel 1b, *Artificial Intelligence Act Proposal — presentation and feedback*. Presentation by Kilian Gross, Head of Unit on Artificial Intelligence Policy Development and Coordination, DG CONNECT, European Commission; other panellists were Matthias Spielkamp, and Catelijne Muller.

“Ethical challenges for governments in using new technologies in preventive efforts” talk for the panel “Challenges in policing technology for security” with Yordanka Ivanova (DG CNECT), Benjamin Muller (Center for Data Innovation), and Elliot Grainger (chair) *Prevent and New Technologies Strategic Communications Workshop*, European Commission Radicalisation Awareness Network, ‘Brussels’, 13–14 July 2021.

“Ethical use of digital technologies” panellist (with Ingrid Schneider, Ulrich Kelber, and Benjamin Stewart (chair), [African-German Leadership Academy: Governance of Sustainable Development](#) 4 May 2021.

[The German Marshall Fund’s Brussels Forum](#) in Depth: *Transatlantic Leadership on Artificial Intelligence*. One of 20 invited experts for a private discussion. 28 April 2021.

“Regulation — by whom and for what purpose?” short talk and panel participant (with Julia Anderson (chair), Annika Linck, European Digital SME Alliance, and Martin Ulbrich, DG Competition) [AI regulation at the service of industrial policy?](#), Bruegel, ‘Brussels’ 22 April 2021.

Invited expert participant, [The United Nations Institute for Disarmament Research \(UNIDR\)](#) Western Europe and North America Table-top Exercise on [the Human Element in Autonomous Weapons Systems](#) (AWS), online, 14–15 April 2021.

[AI regulation at the service of industrial policy?](#), panellist with Julia Anderson (chair), Annika Linck (Senior EU Policy Manager, European Digital SME Alliance), and Martin Ulbrich, (European Commission, DG CONNECT) the day after the EU draft AI legislation was announced, Bruegel, ‘Brussels’, 22 April 2021.

Invited participant, workshop on security, from the [impact of AI on freedom of expression project](#), hosted by Office of the [OSCE Representative on Freedom of the Media](#) and [Access Now](#), online, Martin Scheinin (chair), 9 April 2021.

“[The role of humans in an age of intelligent machines](#) broadcast of my 25 May 2020 HIIG talk translated into Vietnamese, followed by live discussion by myself, Prof. Dr. Ho Tu Bao, and Dr. Duong Ngoc Dung. hybrid, live at the Goethe-Institut, Hanoi and at the Deutsches Haus, Ho Chi Minh City, Vietnam (but I was in Berlin), 5 March 2021.

“Digitalising French and German societies after the coronavirus pandemic” invited conversation with Alban Schmutz (GAIA-X) moderated by Anke Obendiek, in [Time to act: A new strategic agenda for Franco-German cooperation in Europe: Pariser Platz Conference 2020](#) 1 December 2020.

“Artificial Intelligence and Human Lives 2025-2070” or *AI and Data Governance — In conversation with Prof Joanna Bryson*, arranged by Ray Walshe through Dublin City University at 8am (locally) for the Irish Government (guests were invitation only.) 26 November 2020.

- Workshop participant / commentator, “Technology Landscape 2030”, *Ideenwerkstatt Deutsche Außenpolitik* at Deutsche Gesellschaft für Auswärtige Politik (DGAP), 25 November 2020.
- “Governing AI made easy”, keynote (with Stuart Russell, who gave “Governing AI: A few suggestions”) and panellist, (with Russell, John Zysman, Karen Yeung, GBERnd Stahl, Raja Chatila, Kelsey Farish), *Governance Of and By Digital Technology*, ‘in’ EPFL, Lausanne, 18 November 2020.
- Panellist (with Miapetra Kumpula-Natri (MEP), Sergey Lagodinsky (MEP), Irina Orsich (EC), and Cornelia Kutterer (Microsoft)), [Automating Society 2020 — Launch Event](#), ‘in’ Berlin, also 28 October 2020.
- Panellist (with Eva Maydell (MEP), Daniel Schönberger (Google), Alexander Stubb (EUI), and Žiga Turk (Ljubljana)), [EIF 2020 — Panel 4: The Age of Artificial Intelligence and Disruptive Technologies: Reimagining Regulation and Society](#) *Economic Ideas Forum* ‘at’ the Wilfried Martens Centre for European Studies (official think tank, European People’s Party (EPP)), ‘Brussels’, 28 October 2020.
- Panellist (with Max Welling, and Janosch Delcker chair) “Looking forward — The next frontier in AI technology: What are the limits?”, *POLITICO AI Summit 2020*, 30 September – 1 October 2020, ‘Brussels’ (online).
- Participating expert, “Artificial Intelligence and the Human”, *Committee on Culture, Science, Education and Media of the Parliamentary Assembly of the Council of Europe*, 25 September 2020.
- Invited speaker (with Lisa Herzog, and Tyson Barker (chair) “Tech and the Worker: Rethinking the Social Contract” Workshop of <https://www.aspeninstitute.de/>, 17 September 2020.
- Opening Keynote and invited participant, Second Meeting, *Council of Europe ad hoc Committee on Artificial Intelligence (CAHAI)*, ‘Strasbourg’ (virtually) July 6–8 2020 (attended only 6th.)
- Invited participant, “Tech Companies and the Public Interest: Comparing European and North-American Models for Regulating Social Media Platforms” international virtual workshop ‘at’ Hertie School, Berlin 2–3 July 2020.
- Invited panellist, ‘Regulatory Challenges in Digital Markets: the Future of Artificial Intelligence for Policy Making’, with Daniel Björkegren (Brown University), Anna Christmann (Member of the German Bundestag, Bündnis 90/Die Grünen), Cass Sunstein (Harvard University), Hannes Ullrich (DIW Berlin and University of Copenhagen, moderator). *Berlin Centre Consumer Policies (BCCP) Virtual Mini-Conference* 26 June 2020.
- Keynote, “Bias, AI, and Trust Transparency and Accountability in the Information Age”, *ASME AI Analysis: Standards Development & Ethics*, The American Society of Mechanical Engineers members meeting, 11 June 2020.
- Invited panelist, “Democratic and Public Policy Challenges” with Diane de Pompignan (chair), Maxime Stauffer (Geneva Science Policy Interface), J. Peter Burgess (ENS), Karin Perset (OECD), Pierre Paperon (Exploit.digital), and Sasha Rubel (UNESCO) *AI Governance Forum 2020: From the governance of AI to the governance via AI?* ‘Zurich’, virtually, 8–9 June 2020.
- Invited participant for Chatham Rules international meeting, Future of Politics Workshop: Democratic politics in the digital economy, Coordinadora del Programa de Instituciones Políticas (CIPPEC), ‘virtually’ in Buenos Aires, Argentina, 29 May 2020.
- Invited panellist, ‘Effects of algorithms in shaping online behaviour’ with Anna Zaitsev (Berkeley), Stacie Hoffmann (Oxford Information Labs), and chair Donara Barojan (Zinc), *Emerging Trends in Social Media*, [Emerging Trends in Social Media](#), Riga, Latvia, 9 March 2020.
- Invited panellist, “Digital Economy and Regulation: AI and Cybersecurity,” with Miguel Gonzalez-Sancho (European Commission), Matt Walsley (Vectra), chair: Lorenzo Pupillo (Centre for European Policy Studies, CEPS), *CEPS Ideas Lab 2020*, Brussels, 5–6 March 2020.
- Invited panellist, “From Principles to Practice” with Khalil Rouhana (Deputy Director-General of DG CONNECT, EU Commission), Ulrik Knudsen (Deputy Secretary-General of the OECD) and Hubertus Heil (German Federal Minister of Labour and Social Affairs), Opening of the German AI Observatory ([Das Observatorium Künstliche Intelligenz](#)), Berlin, 3 March 2020.

- Invited participant, [High-Level Policy Dialogue: The Governance of Digital Networks: Convergence or Fragmentation](#), jointly sponsored by the European University Institute, the Hertie School Centre for Digital Governance and the Oxford Internet Institute, Berlin, DE 25–26 November 2019.
- Invited panellist, [AI: Technology to Serve Humankind — Setting Legal Standards](#) United Nations General Assembly side event co-sponsored by Slovenia, Council of Europe and UNESCO. New York City, 28 October 2019.
- Invited panellist, panel: *Harnessing innovation in anti-corruption: AI, blockchain, machine learning, big data analytics & civic technologies — opportunities, risks & ethical considerations*, 8th Annual Anti-Bribery & Corruption Forum, London, 17–18 Oct 2019.
- Invited speaker and panellist, *Civil Service Masterclass: AI and Machine Learning*, Policy Profession Unit of the UK Cabinet Office, with University of Bath Institute of Policy Research, Pall Mall, London, 14 October 2019.
- Invited participant “The data driven society” seminar, *Aspen Seminars for Leaders*, San Clemente Palace, Venice, 11–13 October 2019.
- [Artificial Intelligence and the Human Economy](#) Keynote, Altius Society Conference [Organizing Society for the 21st Century. Is Democracy the Right Model? Towards a New Social Contract for the Age of Cognitive Machines](#). Oxford, UK, 4–6 October 2019.
- Participant, Research and Innovation (UKRI) AI review Evaluation, Standards, Benchmarking and Regulation roundtable, London, 4 October 2019.
- Short keynote and longer debate (with Lorena Jaume-Palasi) “Global Technology Governance for the Fourth Industrial Revolution”, *Digital Future Society* Palacio Neptuno, Madrid, ES. 30 September 2019
- Invited participant *ICGAI Planning Meeting (UN General Assembly Week)*, NYU, New York City, 26 September 2019.
- “Technology for Good: Empowering AI Leadership” invited talk [DLD Europe Conference: Optimism and Courage](#), Brussels, BE, 9 September 2019.
- Invited speaker and participant [The Militarization of Artificial Intelligence](#), co-organised by the United Nations Office for Disarmament Affairs, the Stimson Center, and the Stanley Foundation. UN building, New York City, 13–14 August 2019.
- Sole invited speaker “Regulating AI to Be Regulatable” Interagency Meeting at the United States Federal Reserve Board (Kelvin Chen, host). Other agencies represented included several Federal Reserve Banks (Chicago, Boston, Dallas, Kansas City, Philadelphia); Consumer Financial Protection Bureau; Federal Deposit Insurance Corporation; National Credit Union Administration; Office of the Comptroller of the Currency. Washington DC, 23 July 2019.
- Invited speaker and participant, invite-only ‘East-West AI for Good’ workshop (UK and China), [Cross-Cultural Trust for Beneficial AI](#). My talk “Science Is a Bridge” was described as ‘controversial.’ Leverhulme Centre for the Future of Intelligence (CFI), the Centre for the Study of Existential Risk (CSER), and the Intellectual Forum at Jesus College. Cambridge, UK, 11–12 July 2019.
- Invited participant [World Economic Forum Annual Meeting of the New Champions](#), a member of two panels: [The Real Cost of User Data](#), [Tech for Good: Empowering AI Leadership](#) (with Chen Liming Chairman, Greater China Group IBM Corporation, Satsuki Katayama, Anand S. Rao, Global Leader, Artificial Intelligence, PwC, and chaired by Will Knight, MIT Tech Review), Minister of State for Regional Revitalization, Cabinet Office of Japan, “Outsmarting Bias through Gender-Neutral AI” (hub talk with Simon Greenman) and two multilateral meetings “Cybercrime 2025: Disruptive Technology and the Future of Cybersecurity” and “AI ecosystems in Europe and China”, (also invited for a keynote at the Centre of Cybersecurity Community Dinner, but plane was delayed). Dailan, People’s Republic of China. 1–3 July 2019.
- Invited seminar to the Cabinet Office, “Regulating AI to Be Regulateable,” *Department for Digital, Culture, Media & Sport (DCMS) and Centre for Data Ethics and Innovation (CDEI)* (Thomas Upchurch, host), Whitehall (Churchill Room), London, UK 28 May 2019.

Invited panellist on behalf of the Organization for Security and Co-operation in Europe (OSCE), “New frontiers: how technical advancements will shape the international cyber/ICT security policy and legal landscape” with Byung-ha Chung (moderator) Myung-Hyun Chung, Joon Hong Ha, Josephine Wolff, and Liis Vihul, *Second Inter-Regional Conference on Cyber/ICT Security: Regional Responses to Global Challenges*, Seoul, South Korea, 1–2 May 2019.

Invited speaker and panellist, [AI Governance Forum](#), first meeting of a “multi-stakeholders platform” supported by the Federal Office of Communications (OFCOM) of the Swiss Confederation. Talk titles: “Artificial Intelligence and Human Accountability” (keynote), “Trust and Legal Personality for Intelligent Artefacts” (panel introduction). Geneva, Switzerland, 23 March 2019.

Opening keynote, “What technologies count as AI and how are they influencing our lives?”, *Geopolitics of Artificial Intelligence Symposium*, Centre for International Digital Policy in Global Affairs Canada, Ottawa, Canada, 12 March 2019.

Opening keynote, “Artificial Intelligence and Human Accountability”, [Artificial Intelligence: Governing the Game Changer — Implications of AI development on human rights, democracy and the rule of law](#), *Council of Europe*, Helsinki, Finland. 26–27 February 2019.

Invited speaker and panellist, [Women Leading in AI Manifesto](#) Launch Event, UK Parliament, 6 February 2019. cf [Forbes’ coverage](#). (note: I was not one of the manifesto authors.)

Invited participant, World Economic Forum Annual Meeting, spoke on two main panels: [Realizing the Data Economy](#) with Andrew Jassy CEO, Amazon Web Services; Brian Duperreault President and CEO, AIG; and Robert F. Smith Chairman and CEO, Vista Equity Partners (chair). “Rethinking the Value of Freedom,” with Timothy Snyder, Yale (History). Also spoke at two colocated events and [visited a local school](#) (appear at 1:35 of that 3 minute film) as both public engagement and to publicise the OECD report [Envisioning the Future of Education and Jobs: Trends, Data and Drawings](#). Davos, Switzerland. 21–25 January 2019.

Google announced they had corrected one of the bias problems identified in our 2017 *Science* paper, using the example from our paper, in this blogpost: [Reducing gender bias in Google Translate](#). Google Translate Blog, 6 December 2018.

Invited participant [ICT 2018 Conference](#) by the European Commission, Digital Single Market directorate. 4–6 December 2018, Vienna.

- Speaker and panellist (AI expert) [ICT2018: Next Generation Internet: Beyond the Internet](#) (my part starts at 32:00 in).
- Also got pulled into the [Facebook Live conversation on AI](#) after the AI panel.
- And spoke on a panel at the “networking session” [AI meets Human Consciousness: Is there Machine Consciousness?](#) with Antonio Chella and Aureli Soria-Frisch.

Invited participant and commentator, *Women Leading in AI* round table policy session, UK Parliament, 21 November 2018.

“How Do We Design AI Ethically?” Invited talk, *A European Approach to Ethical Design* panel, *Europe Regulates Robotics* conference, Pisa, 27–28 September 2018.

Invited participant [World Economic Forum Annual Meeting of the New Champions](#), a member of three panels: [A Global Conversation on Artificial Intelligence](#) (sponsored by TenCent), “Hidden in the Algorithm,” and “Ensuring Ethics Keep Pace”. Tianjin, People’s Republic of China. 18–20 September 2018.

Joanna J. Bryson, “Accountability and Transparency with and through Intelligent Systems,” invited and reviewed position paper and presentation for *The Evolving Impact of Science and Technology on the U.S. Judiciary: Artificial Intelligence*, an Institute on Science for Global Policy (ISGP) Conference, put on in partnership with the Federal Judicial Center (FJC). Other presenters were Michael Littman and Dan Hunter. Santa Fe, NM, 28 August 2018.

Invited participant, *University of Washington’s Technology Policy Lab’s Second Global Summit on Grand Challenges for Tech Policy*. Seattle, 7–9 August 2018.

Invited speaker and panellist (with Ed Felton, Nick Bostrom, and Shahar Avin), “[AI and Future Generations](#)” *UK Parliament*, hosted by the All Party Parliamentary Group on Future Generations, 19 July 2018. [Statement](#).

“The main ethical challenges to AI deployment,” invited talk and panel participant for the parallel workshop *Artificial Intelligence — Today and Tomorrow* at The European Commission’s *Digital Assembly 2018*, Sofia, Bulgaria, 26 June 2018.

“Artificial intelligence: What might Europe offer?” [Inspirational speech in the plenary panel](#), The European Commission’s *Digital Assembly 2018*, Sofia, Bulgaria, 25–26 June 2018.

Invited panellist for the panel [Artificial Intelligence: Developing Responses](#), *Chatham House London Conference 2018: Responses to a New Era of Global Competition*, London, 21–22 June 2018.

Invited participant, POLITICO AI Roundtable “Responsible AI in the UK,” London, 11 June 2018.

Panellist, *Ethical AI Engagement Session*, Royal Bank of Scotland (RBS), Edinburgh, 29 May 2018.

Meeting with the Google DeepMind Ethics & Society team, London 26 April 2018.

“AI and Machine Learning: Is Regulation Feasible?” Financial Conduct Authority (FCA), Insight Lecture Series, London, 19 April 2018.

Invited panellist (two panels), *Humanity Disrupted: Artificial Intelligence and Changing Digital Society*, a meeting organised by The Aspen Institute, Berlin. On the panel *Reimagining Economies, Productivity and Innovation in early AI Age* with Nicola Beer, Jeff Bullwinkle, and Andrew Wyckoff, and gave the talk “The Hazard of Anthropomorphizing Robots and AI” for the panel *Thinking about AI and What Makes Us Human in Three Talks*. Berlin, 14–15 March 2018.

Miles Brundage, Shahar Avin, Jack Clark, Helen Toner, Peter Eckersley, Ben Garfinkel, Allan Dafoe, Paul Scharre, Thomas Zeitzoff, Bobby Filar, Hyrum Anderson, Heather Roff, Gregory C. Allen, Jacob Steinhardt, Carrick Flynn, Seán Ó hÉigeartaigh, Simon Beard, Haydn Belfield, Sebastian Farquhar, Clare Lyle, Rebecca Crootof, Owain Evans, Michael Page, Joanna Bryson, Roman Yampolskiy, and Dario Amodei, [The Malicious Use of Artificial Intelligence: Forecasting, Prevention, and Mitigation](#) Technical Report jointly published by the Future of Humanity Institute, University of Oxford, Centre for the Study of Existential Risk, University of Cambridge, Center for a New American Security, Electronic Frontier Foundation, and OpenAI. February 2018.

Our article in *Science* has been cited in policy documents.

- [Artificial Intelligence and Automation in the UK](#).
- [Fairness in precision medicine](#) (Australia).

Participant, *European Commission Open Roundtable on the Future of Work*, attended in response to an open call, then unexpectedly presented (the invited AI expert had a travel issue.) Brussels, 5 February 2017.

Interviewed for expert advice, *Hyundai’s foresight study ‘AI 2030’*, 4 January 2017.

Invited speaker and panellist, “IGF 2017 WS #93 AI: Intelligent Machines, Smart Policies” (on behalf the OECD), *Internet Governance Forum*, Geneva, Switzerland, 18–21 December 2017.

Invited participant — one of two with talks — *Nick Clegg / open reason: round table on the economic impact of AI*, informed Clegg’s subsequent policy speech, “Social and political impact of Artificial Intelligence (AI) and new technologies” [full text](#), delivered to ad:tech on 30 November, covered in [Business Insider](#) and [Wired](#). London, 8 November 2017.

Elected and invited **member of the UK Computing Research Committee (UKCRC)**, which since 2000 the national a policy committee for computing research in the UK. Elected 3 November 2017.

Invited participant, “AI Safety and Cybersecurity Panel”, *Artificial Intelligence and Global Security Summit* (with, among others, Eric Schmidt and Andrew Moore), hosted by Center for a New American Security, Washington DC, 1 November 2017.

Interviewed on the topic “Discussion of AI and Conflict Escalation” by Erin D. Dumbacher, Program Officer, Scientific and Technical Affairs, and colleagues Page Stoutland and Brian Rose *Nuclear Threat Initiative* 30 October 2017.

- “Current and Potential Impacts of Artificial Intelligence and Autonomous Systems on Society” in the session *Transparency, oversight and ethics*. Invited speaker and participant, [AI: Intelligent Machines, Smart Policies](#), OECD, Paris, 26–27 October 2017.
- Contributed participant with selected **keynote** talk “AI and Society: Challenges and Opportunities” *Artificial Intelligence and its Impact on Tomorrow’s World*, VolkswagenStufung, Hotel Fregeist, Einbeck Germany 4–7 October 2017.
- Invited roundtable participant, “Artificial intelligence: economic, social, and political impacts in low/middle income countries”, hosted by *The Web Foundation, the Centre for Global Development, and Future Advocacy*. Albert House, London, 13 September 2017.
- Provided [five pages of written evidence](#) on behalf of the Department of Computer Science, University of Bath, to the *House of Lords Select Committee on Artificial Intelligence*. Publicly released 11 October 2017.
- Public provision of oral evidence to the *All Party Parliamentary Group on Artificial Intelligence* at their session “Governance, Social and Organisational Perspective for AI,” House of Lords, London, 11 September 2017.
- Invited participant, “Ethics and autonomous weapon systems: An ethical basis for human control?” A roundtable of *International Committee of the Red Cross (ICRC)*. Spoke on the panel “Accountability and Transparency.” Humanitarium, Geneva, Switzerland, 28—29 August 2017. [ICRC report that derived from that meeting \(April 2018\)](#).
- Invited participant, *SRI Technology and Consciousness Workshop Series* (was only available for the final session.) Talk: “A Role for Consciousness in Action Selection”. Menlo Park, CA, 7–11 August 2017.
- Invited participant, “The Future of the Digital Citizen : Enabling an Interconnected Life in a Hyperconnected World: IEEE — SA Think Tank”, Somerset, NJ 25 July 2017.
- Invited participant, *Mapping the Relative Risks Emerging Technologies Pose to Nuclear Weapons Systems*, Chatham House, London, International Security Department, 18–19 July 2017. [web](#)
- Invited panellist (two panels), [The Aspen Ideas Festival](#), “When Robots Take Our Jobs” (with among others, Tim O’Reilly), and “Deep Dive: Machines and Morality” (opposite Gary Marcus). Aspen, CO, 28 June – 1 July, 2017.
- Participant and Section Chair, “Symposium on the Ethics of Autonomous Systems (SEAS)” *The IEEE Global Initiative for Ethical Considerations in Artificial Intelligence and Autonomous Systems* Houston, TX, 5–6 June 2017. (Also participated in the 2016 SEAS in The Hague, which got me roped into being a chair.)
- Invited participant, “FHI/CFI/CSER Workshop on Bad Actor Risks in Artificial Intelligence”, Future of Humanity Institute, Oxford, 19 February 2017.
- Invited panelist, “Artificial Intelligence and Big Data in the financial sector”, *ESMA Financial Innovation Day: FinTech – Innovation, Infrastructure, Inclusion*, European Securities and Markets Authority, Paris, 10 February 2017.
- Invited participant (one of 50), *Royal Society and National Academy of Sciences Sackler Forum on Machine Learning*, Washington, DC, 31 January – 1 February 2017.
- Invited panelist, ACM Panel and Town Hall *Big Thoughts and Big Questions about Ethics in Artificial Intelligence* (with Francesca Rossi, Stuart Russell, and Michael Wooldridge.) Online event, 25 January 2017.
- Invited speaker by the OECD Directorate for Science, Technology and Innovation Committee on Digital Economy Policy’s Technology Foresight Forum, *Artificial Intelligence — Economic and Social Implications*. Talk title: “Artificial Intelligence versus Legal Persons”. Paris, France, 17 November 2016
- One of four invited speakers for a breakfast panel at the Eighth European Innovation Summit, titled *Ethical Considerations in Artificial Intelligence — and what it means for policy makers*. Talk title: “Artificial Intelligence versus Legal Persons”. Sponsored by IEEE, the other speakers were Raja Chatila, Kay Firth-Butterfield, and Mady Delvaux, MEP. European Parliament Building, Brussels, 16 November 2016.

- Invited Panelist, *IEEE AI & Ethics Summit 2016: Artificial Intelligence & Ethics — Who Does the Thinking?*, Brussels, Belgium, 15 November 2016.
- Invited Committee Member, *IEEE Global Initiative for Ethical Considerations in the Design of Autonomous Systems*, April 2016–present. This is the IEEE’s second major policy initiative in the history of the organisation. Made co-chair of the Affective Computing Committee.
- Invited participant, *Ethical and Social Challenges Workshop: Oral Evidence Gathering Event for Machine Learning*, UK technology policy consultation conducted by the Royal Society. Spoke on the “Human-machine/software interactions and agency in the near term (5-10 years)” panel and provided written commentary on full proceedings. London (by video), 14th January 2016.
- Invited participant, *Roundtable on Ethics and Trust Issues in the Human-Machine Relationship*. Round table convened by the Royal Society, the Government Office for Science (GOSci), and the Arts and Humanities Research Council (AHRC). London, 23 June 2015.
- Invited participant, *European Workshop on Ethical Issues in Human-Machine-Interaction and Service Robotics*, Brussels, 6 May 2015.
- Invited participating observer of the *UK Robot Ethics Forum* for the development of the draft ISO standard “BS 8611 Robots and robotic devices — Guide to the ethical design and application of robots and robotic systems”, *British Standards Institution (BSI)*, London, 22 June and 6 March, 2015. Also provided further consultation on their documents later in 2015. Chair: Osman Tokhi, Sheffield.
- Expert consultant, “Health, demographic change and well being: Perspectives from SSH on research and innovation”, Brussels, 11 November, 2014.
- Expert consultant, “Big Data Overview for Parliamentarians”, Parliamentary Office of Science and Technology, contributing to several of their data sheets released in 2014.
- Contributed substantial structure and text to the *Cognition* section of *Robotics 2020: Strategic Research Agenda for Robotics in Europe* policy document (pp. 80–82 of Draft 0v42, dated 11 October 2013, produced by euRobotics aisbl).
- Member of the euRobotics *AI and Cognition in Robotics (AICoR)* Topic Group advisory committee since 2013; The topic group *Ethical, Legal and Socio-economic issues (ELS)* since 2016.
- Margaret Boden, Joanna Bryson, Darwin Caldwell, Kerstin Dautenhahn, Lilian Edwards, Sarah Kember, Paul Newman, Vivienne Parry, Geoff Pegman, Tom Rodden, Tom Sorell, Mick Wallis, Blay Whitby, and Alan Winfield, **EPSRC Policy Statement, Principles of Robotics**, April 2011, available from the EPSRC website.
- Invited participant (expert in AI ethics and social impact) in the UKs Engineering and Physical Sciences Research Council (EPSRC) Robotics Retreat, New Forest, UK, 29 September – 1 October 2010.

Public Engagement, Popular Writing, Public Education

Media appearances authored or hosted by others are in another section below; public policy is above. Please also see also my Twitter account, @j2bryson; my blog, [Adventures in Natural Intelligence](#); and my [academic Web pages](#).

- Invited chair for a panel, [AI & Personal and Cybersecurity](#), EUNIC AI Science Café with panellists Karoliina Ainge, Luis Espinosa-Anke, and Jiří Berger. ‘London’, UK, 29 September 2021.
- Keynote and article, [AI Regulation and the Limits of Transparency](#). Keynote for AXA Security Days, ‘Paris’, 3 June 2021; transcript with edits published in their *Insights* series, 12 July 2021.
- Panellist, [Fairness in Artificial intelligence. Promoting diversity or reinforcing discrimination?](#) with Neil Milliken and Nadia Metoui, hosted by The Marie Curie Alumni Association (MCAA) Genders Equity Diversity and Inclusion (GEDI) Working Group, 4 June 2021.

Panellist, ‘Pitch and catch’ session of a 6-week workshop on *AI Governance Solutions* hosted by Schwartz Reisman Institute and the Rockefeller Foundation (Gillian Hadfield, host). 22 April 2021.

“Governing and Regulating AI: Transnational Solutions to Global Problems” invited speaker (with Jana Eggers), [12MIN.ME Innovation Week SPECIAL U.S. Consulate General, ‘Hamburg’](#) 21 April 2021.

[The just AI transition: Where are the opportunities and threats?](#) panellist with Dragos Tudorache (MEP) Loubna Bouarfa, (CEO, Okra), Torbjørn F. Folgerø, (SVP and CDO, Equinor), following a keynote by Lucilla Sioli, Director for Artificial Intelligence and Digital Industry, DG CONNECT, European Commission. EURACTIV, online, 25 February 2021.

[Responsible Robotics and AI: Concrete solutions](#), Webinar in Softbank’s [HEART - Humanizing tEchnology And Robot Talks](#) series, panelist with Daniel McDuff (Microsoft, Research) and Olivier Guilhem (Softbank, legal), and Susana Sanchez Restrepo, chair. 12 February 2021.

[On the Nature of Intelligence and AI](#), podcast *TechSequences: Technology and Consequences* 13 January 2021.

“Governing AI” keynote (with Stuart Russell) at the *Hacking AI* session of AXA’s AI and Security Week. ‘Paris’, 14 December 2020.

Talk (discussion) with Alban Schmutz, and Anke Obendiek (moderator) “Digitalising French and German societies after the pandemic”, at *Time to act: a new strategic agenda for Franco-German cooperation in Europe* Franco-German Dialogue, ‘Berlin’, 1 December 2020.

Podcast interview for [Forum: Govtech Europe](#), 28 Nov 2020.

Panellist [Who owns your face?](#), Cybersalon, ‘London’, 17 November 2020.

Introduction to Ethics and also discussant *Webinar — What role for AI principles? Safety & Ethics-critical AI applications in industry — what role for the OECD AI principles?*, an odd IET, IEEE & EIRMA event run by Timothy Lorkin and including Andrew Wyckoff and Jonathan Aigrain. 12 November 2020.

“Humans are the point, AI is the method,” keynote (followed by AMA chaired by Justin Halsall), Tech Open Air (TOA) Click.Future ‘Berlin’ (virtual), 5 November 2020.

“Humans are the point, AI is the method,” keynote, [The European Big Data Value Forum \(EBDVF\)](#), ‘Berlin’, 4 November 2020.

[Centre for Digital Governance Launch Event: How Can Digital Governance Strategies Drive Sustainability?](#) ‘Berlin’, 29 October 2020.

[The problem with algorithms: who’s responsible for AI bias? | Joanna Bryson on Engati CX](#), podcast, 12 November 2020.

Several appearances ‘at’ Ars Electronica 2020 ‘in’ Linz:

- Keynote [AI & Human Interactions: Social Impacts and Digital Governance](#) 11 Sept.
- [Radicalization by Design](#) Panel discussion with Bharath Ganesh, Richard Rogers, Sathana Udupa, and Arjon Dunnewind and Marc Tuters (hosts) 11 September.
- [Inside Festival: Joanna Bryson / Gerfried Stocker](#) 12 September.

Panellist for online event and podcast, [Business Life After The Virus: Disruption](#), with Professor Sir Nigel Shadbolt, Mikael Down, and Nikolas Kairinos. Jericho Chambers (London, virtually), 26 June 2020.

Panellist for online event, [Regulating the rise of Artificial General Intelligence](#) with Dan Faggella, Nell Watson, and David Wood (chair), *London Futurists* 30 May 2020.

Panellist for online event, *Fair AI for Europe: A Citizen Approach*, Samira Rafaela, Sarah Chander, Aikaterini Liakopoulou, Kevin Kuate Fodouop, and James Kanter (chair). 27 May 2020.

[TUM IEAI Reflections on AI: Q&A with Joanna Bryson](#), video created by the Technical University of Munich’s Institute for Ethical Artificial Intelligence in advance of my public talk there, but released afterwards, 20 May 2020.

[Ethics of Disruption](#) by Jericho Chambers first podcast, on ‘Theory and practice of Ethics of AI, with Dominic Houlder, and Nikolas Kairinos. 20 April 2020.

Invited debate participant, *AI is Us*, with Sophie Hackford, Cyril de Commarque, and chair Donna Lu, *Night of Ideas*, Institut Français, London, 30 January 2020.

“The Bioanthropology of Intelligent Technology” [Anthropology + Technology Conference 2019](#), Bristol 3 October 2019.

Invited panel discussant, *The ethical use of Artificial Intelligence: Views from China*, hosted by Huw Price and chaired by Keith Burnett, panelists: Bing Song, Liu Zhe, and Yi Zeng, other discussant Azeem Azhar. Nuffield Foundation, London, 10 July 2019.

Invited (and paid) lecturer, [Diverse Intelligences Summer Institute \(DISI\)](#), gave two lectures:

- “How AI Extends from Human Intelligence,”
- “What AI Tells Us About Human Institutions.”

St. Andrews, Scotland, 5–8 July 2019.

Invited speaker / panellist (with Sandy Pentland, Carlos Torres Vila), “Towards a New Enlightenment: Ensuring Responsibility in the Age of AI and Big Data”, OpenMind Event launching the book [Towards a New Enlightenment? A Transcendent Decade](#) Bartos Lecture Theatre, MIT, Cambridge, MA, 8 April 2019.

Invited panellist (with Yann LaCun), Artificial Intelligence panel, [Edison Awards’ Meet the Innovators Forum](#), New York, NY, 4 April 2019.

Invited presentation on “Affective Computing section”, launch webinar for *IEEE Ethically Aligned Design, First Edition*, World Wide Web, 25 March 2019.

Featured in the **documentary film** [Who Made You?](#), which premiered in 2019 and was produced by Guerilla Films in Finland.

Invited panellist, “Shaping the Future Workforce: Transformative Impacts of Emerging Technologies,” ([video](#)) *IEEE TechEthics*, Cooper Union, New York City, 28 February 2019.

“The Impact of AI on Human Society”, Bath ML Group (unaffiliated with the University), Guildhall, Bath, 12 February, 2019.

“Artificial Intelligence and a Politically Sustainable Economy”, online lecture for [ShanghAI Lectures](#) (Fabio Bonsignorio, host), 29 November 2018.

Joanna J. Bryson, [No One Should Trust AI](#), a blogpost invited, reviewed, and edited by the **United Nations University Centre for Policy Research**, for their *Artificial Intelligence and Global Governance* blog series. 13 November 2018.

“Ethical and Responsible AI: What Do We Need to Think About?” [AI and Ethics Salon](#), RSA (Royal Society for the encouragement of Arts, Manufactures and Commerce), London, 21 November 2018.

“[Presenting robots as people stops us thinking clearly about AI](#)” *New Scientist* Technology blog, 24 October 2018.

Invited participant on the panel “Developing a diverse talent pipeline: initiatives in education, skills development and attracting women into STEM” *Westminster eForum keynote seminar: Women and the tech sector — skills, career progression and workplace culture*. London, 16 October 2018.

“The Future of AI, Society, and Higher Education.” Invited Keynote, *The 20th Fnesp (Brazilian Private Higher Education National Forum)*, the largest meeting on higher education in Latin America. São Paulo, 27–28 September 2018.

Forty minute interview / podcast for *Fringe FM*, which they titled [Rewriting Asimov’s Laws of Robotics and Enslaving AI with Prof Joanna Bryson](#), 17 August 2018.

Appeared in a documentary short, [Good in the Machine](#), produced by Cambridge University as part of a series on AI. Released 23 July 2018.

Interview, *Elsevier Connect*, [The biggest misconceptions about AI: the experts’ view](#) Gary Marcus, Max Welling, me, Elizabeth Ling, Stuart Russell. By Sweitze Roffel and Ian Evans. 16 July 2018.

[Artificial Intelligence Is Not a Species — Joanna Bryson](#), podcast on *Max Talks AI*, released 23 July 2018.

“AI, Inequality, and Redistribution,” [Universal Basic Income and/or Alternatives: 2018 Update](#), hosted by the London Futurists, 2 June 2018.

“Women, Leadership, and Transnational Intelligence: AI, Ethics, and Governance,” [Women Leading in AI](#), hosted by Fabian Women at the London School of Economics (LSE), London 22 May 2018.

“AI, Economics, and Governance: Challenges of Transnational Intelligence,” invited speaker and panellist for [Impakt Event: Judging the Machine](#), with Helen Knowles and Maaïke Harbers as the other speaker/panellists. Utrecht, 19 May 2018.

Panellist, [Artificial Intelligence and Financial Crime: Panacea or Pandora’s Box?](#), evening public lecture held by the School of Law, Queen Mary University of London (QMUL), chaired by Sir William Blair and Tom Grant, other panellists: F. Scott Kieff, Libby Kinsey, Neil Munro, Michael Shearer, and David Quest. 15 May 2018.

CMS Cameron McKenna Nabarro Olswang LLP — Samuel Robinson, [Several ten-minute videos](#) (“microdoses of genius”) created from a one hour interview by *Big Think* (who also made up the titles):

- Why creating an AI that has free will would be a huge mistake (30 May 2018).
- Would companies be more diverse if A.I. did the hiring? (24 April 2018).
- Creation without consequence: How Silicon Valley made a hot mess of progress (8 April 2018).

Featured in the **documentary film *bias***. Premiered in 2018.

Quoted extensively (Chapter 14, also mentioned in the conclusion) by David Sumpter in *Outnumbered: Exploring the Algorithms that Control Our Lives*, Bloomsbury Sigma, published June 2018.

Interviewed for [Ethical, Social, and Political Challenges of Artificial Intelligence in Health](#), a report by The Wellcome Trust and Future Advocacy (UK), published 30 April 2018.

Organising committee, University of Bath Institute for Mathematical Innovation thematic semester on [Machine Learning: Algorithms and Ethics](#). I also wound up giving a bunch of talks:

- “AI, Machine Learning, Ethics, and Society: Introduction and Current State of Play”, BCS offices, London, 7 February 2018.
- “Transparency in AI and Machine Learning: Is Regulation Feasible? ”, BCS offices, London, 7 February 2018.
- “Is artificial intelligence prone to prejudice?” University of Bath, 13 April 2018.
- “Of, for, and by the people: The legal lacuna of synthetic persons” University of Bath, 18 April.
- *Grand Public Debate on Machine Learning* chair: Derek McAuley, with me, Kathleen Richardson, Mandy Chesell, Nello Cristianini, and Steve Fuller.

Panellist, “Ethics in AI”, evening public lecture held at the Royal Geographical Society, Imperial College Computing Department. Other panellists were Malcolm Brown, Alan Winfield and Maja Pantic. 26 January 2018.

- Write up: Chris Middleton, [The big question – who should be responsible for ethical AI?](#), *Diginomica*, 29 January 2018.

“The Good, the Bad, and the Synthetic,” *Bath University Philosophy Society*, 13 November 2017.

“Who’s the Monster — When Machines are Perceived as People?” talk for private workshop developing the play *Making Monsters*, (playwright: Sara Clifford; producer: Judith Hibberd), Bath, UK, 11 November 2017.

Invited speaker and panellist, “Rethinking intelligence in an era of AI”, *Denkfest: Reformationen des Denkens*, Zürich, 5 November 2017.

Invited speaker and panellist, “Psychologie morale artificielle [Artificial moral psychology]”, *Forum IA responsable: Forum on the Socially Responsible Development of Artificial Intelligence*, Montréal, Québec 2–3 November 2017.

“There is no AI ethics: The human origins of machine prejudice,” online seminar (and interviews) for *With the Best*, 15 October 2017.

Credited advisor (pp. xvii–xviii) for Skilton, Mark, and Felix Hovsepian. *The 4th Industrial Revolution: Responding to the Impact of Artificial Intelligence on Business*. Primary source for Chapter 9. Springer, 2017.

Invited panellist (with among others Jonathan Bamford, Head of Parliament and Government Affairs at the Information Commissioner’s Office (ICO)), “Data Debate: The future of data in public life,” *The Alan Turing Institute*, British Library, London, 19 September 2017.

Panellist and Speaker in session “Artificial Intelligence and the Future of Work,” *Economic Symposium, European Forum Alpbach*, Alpbach, Austria, 30 August 2017.

Cited, *Council for Foreign Affairs*, “[Beijing’s AI Strategy: Old-School Central Planning with a Futuristic Twist](#)” 9 August 2017.

Quoted, *The Guardian*, “[Rise of the racist robots – how AI is learning all our worst impulses](#)” 8 August 2017.

Panellist, “The Ethics of Artificial Intelligence”, Bradford Literature Festival, 8 July 2017.

Panellist, “We Need to Talk About Technology” (following among others Laurie Anderson and Birgitta Jónsdóttir), *Manchester International Festival (MIF)*, 8 July 2017.

Panel speaker to the topic “Do we need a kill switch?” *Artificial Intelligence Conference IET*, London, 24 May 2017. [video](#)

“There is No AI Ethics: The Continuum of Natural and Artificial Intelligence, and What It Means for Human Society”, *ETH: The Future Is Cognitive* Brooklyn, NY, 16 May 2017 [video](#).

Conscious Cities (a group of architects) had me:

- [chair](#) their panel “How can we use high technology in the built environment?” 3 May 2017.
- write “[The Vital Need For The Unconscious City](#)” in *Anthologies, Conscious Cities: Bridging Neuroscience, Architecture, and Technology* May 2017.
- discuss AI and Cities on a short, well-edited [video](#). recorded 3 May 2017

Panellist, “Why Women in AI?”, a public CognitionX event, London, UK, 2 May 2017.

Podcast, *The Machine Ethics Podcast*, [Joanna J Bryson](#) 5 March 2017. [audio](#)

Panellist (with Adrian Weller, Cambridge and John Lewis, Bank of England) for the Goodenough College (University of London) AI Society Port Talk: *Artificial Intelligence and the Future of Humanity*, 7 February 2017.

On 13 January 2017, I did a [reddit science AMA](#) (ask me anything), which was featured on their front page, and received 1864 comments (questions) and 9,535 upvotes.

- My AMA was covered by *techcrunch* “You should read this super-interesting AMA with AI researcher Joanna Bryson”, by Devin Coldewey on the same day;
- it was also summarised in *The Winnower*
- On 30 April 2018 I actually did a [second reddit AMA on AI policy and regulation](#), but nobody noticed that one.

Panellist, “Brian Cox presents Science Matters — AI and machine learning”, Royal Festival Hall (hosted by the Royal Society), London, 10 January 2017. [youtube](#)

“Five Reasons Not to Personify AI”, also, panel participant: *Robots & The Future of Welfare Services*, Helsinki Robottiviikko, 22 November 2016.

“Why AI must be biased, and how we can respond,” talk at *Re-Work: Machine Learning Summit*, New York, NY 2–3 November 2016. [video](#)

Invited panellist (with Robin Saxby and Simon Maskell; Roger Phillips, chair) *Could Artificial Intelligence Become a Threat to Mankind?* The City of Liverpool College, 21 September, 2016.

“Some Research Methods in/using AI”, 90 minute presentation to postgraduate students in a taught methods course. School of Computer Science (Kristinn Thórrison), Reykjavik University, 16 September 2016.

Invited panelist (with Michael Bratman, Bernard ter Haar, Dirk Helbing, Johan Hoorn, and Miriam Struik), *Public Session: AI and Human Values*, at the European Conference of Artificial Intelligence (ECAI), Peace Palace, The Hague, Netherlands, 1 September 2016.

Invited speaker at the Royal Society on Artificial Intelligence, in the context of the New Scientist Live festival, 23 July 2016.

Featured panelist on “Do we want robots to be like humans?”, *The Guardian*, Science Weekly podcast, 1 July 2016 with Oxford’s Paul Newman.

Invited panelist, “Ethics and Autonomous Weapons”, Centre of Global Insecurities, University of Bristol, 25 May 2016.

“Artificial intelligence: Whose mind is it anyway?”, invited talk at *Pint of Science: Beautiful Mind*, Bath, 24 May 2016.

“Which Dæmon?”, Princeton Futurists, dinner talk and discussion, 25 April 2016.

Invited panelist, “Unbottling the AI Demon”, *The Edinburgh Science Festival*, 7 April 2016.

“Technology, Reason and the Future of Morality”, Effective Altruism Seminar, Tufts University, 29 February 2016. 2-hour panel discussion session with informal introductory talks, Daniel Dennett being the other panelist.

Invited talk, “Artificial intelligence and human uniqueness”, Princeton Futurist Society, 23 February 2016.

Featured panelist on “Robots are coming for your job... and that’s not all”, *The Guardian*, Tech Weekly podcast, 8 October 2015, with Martin Ford, and Deloitte’s chief economist Ian Stewart.

Invited speaker in the plenary session “On the cusp: The promise of breakthrough brain research.” *Women’s Forum Global Meeting*, Deauville, France, 14–16 October 2015.

Invited participant: “You, robot! What does it mean to regulate artificial intelligence? A public debate”, University of Westminster, London, 8 October 2015.

“Intelligence in the Flesh: Why Your Mind Needs Your Body Much More than It Thinks, by Guy Claxton” *Times Higher Education* book of the week review, 17 September 2015.

Invited panellist for the panel “Critical Engineering or critical thinking?” *net:25 | 650 Years of University of Vienna, 25 Years of Internet in Austria*, Vienna, 2 June 2015.

“The Future of Robot Ethics”, invited public talk, *London Futurists*, Birkbeck College, London, 18 April 2015.

“From psychology to robots to philosophy to biology: Tips from an interesting academic life”, invited plenary, *Women in STEM: A celebration of research excellence*, Plymouth University, 20 March 2015 (British Science Week).

Tea and mentoring, Edinburgh Women in Philosophy Group, Edinburgh University, 21 January 2015.

“Semantics, Consciousness, Ethics... The Reality of AI Kicks Philosophy Out of the Armchair”, *ShanghAI Lectures*, AI lectures delivered live online to lecture rooms in several continents, 11 December 2014.

Joanna J. Bryson, *Soapbox Science*, *SEBulletin*, The Society for Experimental Biology, p. 43, October 2014.

“Cooperation is Natural; Can We Make It Artificial?” *Soapbox Science*, Bristol UK, 14 June 2014.

“Counting on Girls”, participant expert for speed-dating advice on careers to 13-year-olds at the Ralph Allen School (state school in Bath), 7 March 2014.

Miles Brundage and Joanna Bryson, “Why Watson Is Real Artificial Intelligence”, article in the *Slate* blog *Future Tense*, 14 February 2014.

“Patience Is Not a Virtue: Intelligent Artefacts and the Design of Ethical Systems”, invited talk at *The Person in Virtual Reality*, a discussion event of the Albertus Institute, Edinburgh, 18 January 2014.

Huffington Post Live, panelist for “The complex relationship between humans and robots”, broadcast originally 9 January 2014, still available on Web archive.

Guest lecture / Q&A (by video) on robot ethics, *Philosophy of Technology*, Evan M. Sellinger (course organiser), Rochester Institute of Technology, 29 October 2013, and 15 January 2013.

“From Artificial Consciousness to Human Public Goods: A Skeptical Review of Robot Ethics”, invited public lecture, *The Conway Hall Ethical Society*, London, 15 September 2013.

(Losing) contestant, *I’m a Scientist, Get Me Out of Here!*, “Animal Behaviour Zone”, June 2013.

“Robots, Science, & Simulated Society: How AI Helps Us Change Our World”, *Ignite: Bath Digital Festival*, 18 March 2013.

“Robot Faces”, *TEDx Loughborough*, 16 March 2013.

“Can Robots Be Conscious?” *Skeptics on the Fringe*, Banshee Labyrinth, Edinburgh, 5 August 2012.

Joanna J. Bryson, “Internet memory and life after death”, in *Bereavement Care* **30**(2):70–72, 2012.

Joanna J. Bryson, Kerstin Dautenhahn and Geoff Pegman, “Man and the machine”, letter in the [online version of the *The Economist*](#), 16 June 2012.

Jason Leake and Joanna J. Bryson “Can you indict a robot”, invited poster presentation for *Emerging technologies: are the risks being neglected?* London 21 May 2011.

Joanna J. Bryson “The Making of the EPSRC Principles of Robotics”, in *The AISB Quarterly*, (133) Spring 2012.

“The Ethics of Conscious Robots”, *Cardiff Skeptics in the Pub*, 19 March 2012.

“The Ethics of Conscious Robots”, *Bath Skeptics in the Pub*, 6 December 2011.

Joanna J. Bryson “AI Robots Should Not Be Considered Moral Agents”, *Artificial Intelligence: Opposing Viewpoints Series*, selected and edited (from *Robots Should Be Slaves*) by Noah Berlatsky for Greenhaven Press (schoolbooks), pp.155–168, Farmington Hills, MI, USA, June 2011.

“Thinking on Robot Thought”, *BathCamp* (local technology-oriented monthly networking event), 2 November 2011.

“Do We Need Emotional Robots?”, *General University Lecture Programme*, University of Bath, 2 March 2011.

“The Ethics of Robotics”, *Southampton Science Café*, with Alan Winfield, 30 November 2010.

Joanna J. Bryson, “The Need for Cognitive Systems in Medical Care”, *CyberTherapy & Rehabilitation Magazine* **3**(3):35–36, 2010.

“Cognitive and Behavioural Robotics”, *The Austrian Association for Innovative Computer Science — Summer Robotics Course*, Technical University of Vienna, 4 August 2009.

Joanna J. Bryson, “Adaptive Trade-Offs Concerning Cognition and Culture”, talk presented at *Hot Topics in Cognitive Science*, Grünau, Austria, 12–13 June 2009.

“Agent Based Modelling for Science: The Evolution of Cultural Evolution”, Lecture for PhD students in *The European Science Foundation Network for the Evolution of Social Cognition (CompCog)*, Department of Cognitive Biology, University of Vienna, 23 September 2008.

“Consciousness is Easy but Learning is Hard: The Computational Complexity of Cognition”, guest talk for the Hot Topics in Cognitive Science student symposium, The Konrad Lorenz Research Station, Grünau, 20 June 2008.

“Can we build artificial intelligence — and should we?”, public talk and discussion at the Bath Science Café, *The Raven* (public house), Bath, UK. 14 January 2008.

Quoted several times in Michael Balter, “Why We’re Different: Probing the Gap Between Apes and Humans”, *Science*, **319**(5862):404–405, 25 January, 2008.

Cyril Brom and Joanna J. Bryson, “Action Selection for Intelligent Systems”, white paper for *The European Network for the Advancement of Artificial Cognitive Systems*, 7 August 2006. Originally developed as the Wikipedia articles “Action selection” and “Reactive planning”.

- “Robot Emotions”, invited presentation and panel participation for *The Cambridge Robot Project*, Cambridge, UK. 25 May 2006.
- Joanna J. Bryson, “Funding: Income is already dependent on outcome”, correspondence about a British funding controversy, *Nature*, **441**:690 8 June, 2006.
- “Developing Modular Intelligent Systems”, four-hour tutorial with laboratories, *European Agent-based Systems Summer School (EASSS)*, Utrecht, July 2005.
- Joanna J. Bryson, “Consciousness is Easy but Learning is Hard”, invited article, *The Philosophers’ Magazine*, (28):70–72, Autumn 2004.
- Joanna J. Bryson, Emmanuel Tanguy and Phil J. Willis, “The Role of Emotions in Modular Intelligent Control”, in *The AISB Quarterly*, Summer 2004.
- “Why Make Monkeys?”, talk for Cybersalon, the Museum of Science, London. 27 May 2004.
- “Intelligence by Design” talk for the *It’s In Your Head*, a UK National artists’ initiative, Generator Studios, Dundee, Scotland. 11 August, 1999.

Media Appearances, including Podcasts

- Quoted several times about the costs of the EU’s draft AI Act [POLITICO AI: Decoded: Parliament is back — The price of AI — Doctors > AI](#), by Melissa Heikkilä (due to Meeri Haataja), *Politico*, 8 September 2021.
- Quoted several times about the EU’s draft AI Act and its costs, [The Fight to Define When AI Is ‘High Risk’](#) by Khari Johnson (due to Meeri Haataja) *Wired*, 1 September 2021.
- Interviewed for / in, [Die Ethik, der Mensch und die künstliche Intelligenz: Wie wir mit Algorithmen zusammenleben wollen](#) by Mariann Unterluggauer on Ö1, (Austrian national radio). 16. Juli 2021, 19:05.
- Interview** by Jenny Darmody, [The importance of having accountability in AI ethics](#), *Silicon Republic*, 1 July 2021.
- Policy mentioned in [Why You Should Never Say Thanks To Siri](#) Charles Radclyffe, *Forbes*, 20 May 2021.
- [The Week in 7 Questions with Prof. Joanna Bryson and Roland Freudenstein](#), Featured on weekly short podcast by the [Wilfried Martens Centre for European Studies](#). Questions are about AI and the newly-released draft EU AI Regulation. 30 April 2021.
- [#13 Intelligence, biology, technology and everything that connects us with Joanna Bryson](#), Volume Podcast, 22 March 2021.
- [AI: Science Fiction VS Reality](#), **video interview** by the Digital Future Society (Spanish government) 22 February 2021.
- [Futurama Already Taught Us In 2001 Not To Date Robots](#), by Rich Cromwell, in *The Federalist*. Commentary on my debate with Devlin (see below) backs my side. 15 Feb 2021.
- Podcast debate (with Kate Devlin), the topic was agreed to be “Should we date robots?” but got marketed as [Agree to Disagree: Sex Robots?](#) by *Intelligence² Debates*, 12 February 2021.
- Interview subject, [On the Nature of Intelligence and AI TechSequences: Technology & Consequences Podcasts](#), released 13 January 2021.
- Panellist (television), [Who is right: Facebook or Apple?](#) with Marc Owen Jones, Jim Anderson, and Peter Dobbie (presenter), *Al Jazeera English*, 3 January 2021.
- Interview subject (concerning recent journal article) [Inequality, economic decline fuel social polarisation, right-wing movements](#), *Daily News (Egypt)*, 5 January 2021.
- Live television interview, *Al Jazeera English*, commenting on SolarWinds and cybersecurity, 17 December 2020.
- Quoted, [AI and ethics: the challenge of lining up stakeholders](#), a special report by Callum Cyrus in the magazine *Global Corporate Venturing*, 15 December 2020.
- [Economic inequality and decline fracture society, says a new study](#), coverage of our *Science Advances* paper in *ZME Science* 14 December 2021.

Quoted, [Wary of China, the West closes ranks to set rules for artificial intelligence](#) by Janosch Delcker, *Politico*, 6 September 2020.

Podcast, [Data & Dystopia](#), with Samira Rafaela, Sarah Chander, Patrick Breyer, music by Wael Koudaih and host James Kanter. 16 June 2020.

Listicle, [36 Experts Share Digital Workplace Best Practices To Fight COVID-19](#), 24 April 2020.

Interview, [Plastic Touch](#), in *about Digital Health*, 25 March 2020.

Featured interview by David Rischel, [Professor Joanna Bryson: Med kunstig intelligens bliver det langt nemmere at overvåge befolkningen. Men problemet er politisk, ikke teknologisk](#), in *RÆSON*, 24 March 2020.

[Gender Bias in Technology: How Far Have We Come and What Comes Next?](#) interviewed with Susan Etlinger, Os Keyes, and Joy Lisi Rankin. *Centre for International Governance Innovation*, 19 March 2020.

[The coexistence of artificial and natural intelligence](#) Interview with Joanna Bryson, leading expert in artificial and natural intelligence Digital Future Society. 2 March 2020.

[Why Europe May Not Need Big Tech](#) **CNN Money** interview by Hannah Wise (5 min), 19 February 2020.

[JOANNA J. BRYSON On Regulating the Software behind Artificial Intelligence](#), bigtech podcast, *Centre for International Governance Innovation (CIGI)*, 30 January 2020.

Featured interview: Only Humans Can Be Accountable For AI by Bennie Mols, in *Communications of the ACM*, 7 November 2019.

[AI challenges discussed at UN event co-hosted by Slovenia](#) STA (a Slovenian news source) describing event, see video under Policy above. 29 October 2019.

Quoted several times, including kicker [Why Terminator: Dark Fate is sending a shudder through AI labs](#), Sam Shead, BBC News, 25 October 2019.

Quoted, [Opinion: I Always Feel Like Somebody's Watching Me](#). Dev Class, 20 September 2019.

Featured interview: [‘Slimme AI kan nóóit een mens worden’](#) by Bennie Mols in *NRC Handelsblad*, 8 September 2019.

[Joanna J Bryson: Academic Expert in Artificial and Natural Intelligence](#), *The Human Show* (podcast), 26 August 2019.

[Designing Responsible AI](#) podcast / interview by Azeem Azhar for Exponential View and the Harvard Business Review. 10 April 2019. This must have done pretty well, because they later released another conversation from about the same time but that occurred on stage at *Cognition X* as [Governance in the Age of AI](#) (released 14 August 2019).

<https://whatifshow.com/what-if-your-teacher-were-ai/> *What If* podcast, 1 August 2020.

Featured, [Ciencia “Un grupo de multimillonarios invierte mucho dinero en difundir que la AI es una amenaza”](#) Javier Cortés in *Retina*, 2 May 2019.

Quoted, [Real or Artificial? Tech Titans Declare AI Ethics Concerns](#). Idaho Business Review, 24 April 2019.

Quoted extensively in an article about Ethical AI and Google’s decision to dissolve their new council of external advisers (of which I was a member) the week after having created it, due to pressure from the backlash. [How Real Are ‘Ethical Artificial Intelligence’ Efforts by Tech Giants?](#), *Insurance Journal*, 11 April 2019.

Quoted, [The Washington Times](#) and [Daily Herald](#) "Real or artificial? Tech titans declare AI ethics concerns", 7 April 2019. The story about Google’s dissolution of its board of external advisors was simultaneously published in both papers on the same day. As one of the members of the Google newly-launched global advisory council, I was extensively quoted in this article.

Quoted, [Internal Google Panel to Vet AI Projects Packed with Executives](#). Free Malaysia Today, 7 April 2019.

Quoted extensively, [Google A.I. Panel Member Says Google ‘Pulled The Plug Rather Than Defend Themselves’](#). Forbes, 5 April 2019.

[Google launches global council to advise on AI and tech ethics](#). Channel News Asia, 27 March 2019.

Quoted, BBC, [Google announces AI ethics panel](#) 26 March 2019. As one of the members of the Google newly-launched global advisory council, I was extensively quoted in this article.

The whole Google ATEAC narrative via *The Register*:

- Surprisingly flattering tweets (by others about me as well as some of the better ones by me) quoted, [Google plonks right-wing think tanker and defence drone mogul on AI ethics advisory board; Most of the internet: Yikes](#), Rebecca Hill, *The Register*, 27 March 2019.
- Then a long actual interview, [Googlers, eggheads urge web giant's bosses to kick top conservative off its AI ethics council](#) Katyanna Quach, *The Register*, 2 April 2019.
- More quoting tweets in the aftermath, [Back to drawing board as Google cans AI ethics council amid complaints over right-wing member](#), Rebecca Hill, *The Register*, 5 April 2019.

[AI and I: A Twinkle in Artificial Intelligence](#) interview by Asumpta Lattus, published February 2019.

Quoted extensively in an article mostly about Boston Dynamics, [The robots are here](#), *New Scientist* bf 241(3215):34–38, 2 February 2019.

Featured interview: [AI ethics - An interview with Joanna Bryson](#), *Antenna Magazine*, Brewin Dolphin, 29 January 2019.

Quoted, [Google says it built a 'superhuman' game-playing AI. Is it truly intelligent?](#) by Katherine J. Wu, PBS NOVA Next, 6 December, 2018.

Work on legal personality for AI cited, [An open letter to Silvio Schembri](#) by Christopher Bugeja, John Paul Cauchi, Brian Delicata, Nadia Delicata, Matthew Fenech, Raisa Galea, and Matthew Pulis, *Times of Malta*, 24 November 2018.

[Seven Takeaways From This Year's Singapore Fintech Festival](#). FiNews Asia, 19 November 2018.

[Singapore FinTech Festival Attracted A Record 45,000 Participants From 130 Countries](#). Mondo Visione, 19 November 2018.

[Huge online Trolley Problem survey reveals people's cultural bias](#). New Scientist, 24 October 2018.

Animated video interview: MACHINES WITH BRAINS 4(2) [Computing human bias with AI technology](#), *Quartz*, 23 October 2018.

Quoted extensively in the news story that was published to accompany the animated video produced by Quartz. [Scientists used AI to explore the results of the Implicit Association Test](#). Quartz, 23 October 2018.

[Recognizing the limitations of artificial intelligence](#). Thomson Reuters Blog ([Answers On - AI Experts](#)) 17 October 2018.

[MPs called 'dumb' for asking a robot to testify](#). IT Pro, 12 October 2018.

[Amazon ditches sexist AI](#). Information Age, 11 October 2018.

Both mentioned (my bias work) and plagiarised (my accountability position stated without attribution) in a prominent editorial: [The Guardian view on artificial intelligence: human learning](#). “Computers can’t be held responsible for anything. So their owners and programmers must be.” 14 October 2018.

[The UK Parliament asking a robot to testify about AI is a dumb idea](#). Technology Review, 11 October 2018.

Note aux dirigeants : [Joanna Bryson dénonce les critiques à l'encontre de la réglementation de l'IA \(IA et éthique, partie 2\) \[Memo to CXOs: Joanna Bryson Calls BS on AI Regulation Critics \(AI Ethics, Part 2\)\]](#). Appian, 27 September 2018.

[Who's in charge, you or the car?](#) 13 minute interview by Hannah Wise, *CNN Money*, 12 September 2018.

[Do We Need to Dehumanize Artificial Intelligence?](#). Medium, 5 September 2018.

Quoted in Carolyn Y. Johnson, [Children can be swayed by robot peer pressure, study says](#) *Washington Post*. Story was picked up by other papers, also published under the headline “ Robot overlords may sound scary, but robot friends could be just as bad.” 15 August 2018.

[Artificial Intelligence: What Side Of History Do You Want To Be On?](#). Forbes, 11 June 2018.
[FCA Insight Lecture: Dr Joanna Bryson—Artificial Intelligence and Machine Learning](#), article describing my talk to the UK government authority in charge of financial conduct, published in *Lexology*, 23 April 2018.

Extensive, important quotes in:

- James Vincent, [Google’s AI sounds like a human on the phone: should we be worried?](#), *The Verge* 9 March 2018.
- Amy Barrett, [Profile: 500 Women Scientists, the organisation that’s building a more inclusive scientific society on a global scale](#), *Tech Spark* “all things tech in the West” (of England.) 8 March 2018.
- James Vincent, [Pretending to give a robot citizenship helps no one](#), *The Verge*. **Really great quotes**, some of which got picked up by many other more prominent news sources.

More trivially quoted in:

- Ananyo Bhattacharya, <https://www.nature.com/articles/d41586-018-02695-7>, *Nature*, 7 March 2018.
- Jessica Miley, [11 AI Movies and What They Got Right and Wrong About the Technology](#) *Interesting Engineering* 9 March 2018.

Jon Snow, Channel 4 News at 7 interview, Dr Joanna Bryson on Spot Mini the robotic dog, when Boston Dynamics got their robot to open a door. (Unfortunately I had an evening lecture so couldn’t go do it live.) 13 February 2018

Panellist for *The Guardian Science Weekly podcast*: “Questioning AI: what kind of intelligence will we create?”, 17 January 2018. [audio](#)

Featured on **NPR** (WNYC, but broadcast internationally) radio show, “Are You There Siri? It’s Me, Margaret: A Look at The Rapidly Changing World of AI,” broadcast 1 January 2018. [audio](#)

Appeared live on *Al Jazeera* television (English) discussing AI and society, 23 December 2017.

Quoted, *The Guardian*, “[AlphaZero AI beats champion chess program after teaching itself in four hours](#)” 7 December 2017.

Quoted extensively, “Warum es wichtig ist, wie Roboter aussehen [Why it matters how robots look]”, [Krautreporter](#), 17 December 2017.

quoted, “[Battling AI Biases](#)”, *Communications of the ACM*, 28 November 2017.

Newspaper interview: “Geben wir Robotern Rechte, behandeln wir sie wie Menschen [If we give robots rights, we treat them like people]” full page [interview](#) with art and photo, *Berner Zeitung*, p. 18, 25 November 2017.

Quoted, *Slate*, “[What Exactly Does It Mean to Give a Robot Citizenship?](#)” 7 November 2017

Interviewed for **BBC Radio** “Can We Teach Robots Ethics?” two versions appeared: [World Service](#) 23 minutes, and [Radio 4](#) 30 minutes, 15 and 22 October 2017 (respectively.)

Quoted, *The Register* “[EU watchdog: Govt bods are seeking ‘legal knockouts’ to dodge transparency](#)” 20 September 2017.

Quoted, *Vox*, “[How worried should we be about artificial intelligence? I asked 17 experts.](#)” 17 September 2017.

Quoted, *The Observer* “[Would you want a robot to be your child’s best friend?](#)” 10 September 2017. Invited talk, “There Is No AI Ethics: Five Reasons Not to Other AI”, *AI—The other I: Symposium, Ars Electronica*, on the panel “Ethics, Philosophy and Spirituality.” Linz, Austria, 8 September 2017. [video](#)

Individual interview for the blog of Austrian National Radio (**ORF.at**), “[Maschinen haben längst Bewusstsein](#) [Machines are already conscious]”, 4 September 2017.

Quoted extensively in *New Scientist*, “[How to turn Facebook into a weaponised AI propaganda machine](#)” 28 July 2017.

Newspaper interview: “Kabelbündel fürs Grobe,” full page [interview](#) with art and photo, *Taz*, p. 13, 26 July 2017.

BBC World Service *Business Daily* “[Machine Learning](#)” 25 April 2017.

There were an enormous number of media appearances the week that our *Science* article was released and after. [AltMetrics captured 102 news stories](#) and certainly missed some. As of January 2018, AltMetrics places our article as the 23rd most discussed of the 43,198 articles in *Science* it has ever tracked, and 398th of all 8,926,037 academic ‘outputs’. A few favourites:

- *Science* itself printed a popular science account “[Even artificial intelligence can acquire biases against race and gender](#)” 13 April 2017, as well as soliciting an academic commentary “[An AI stereotype catcher](#)” by Anthony Greenwald **356** (6334):133–134 14 Apr 2017.
- *The Guardian* had several articles, including “[AI programs exhibit racial and gender biases, research reveals](#)” (13 April 2017); and the editorial “[The Guardian view on computers and language: reproducing bias](#)” (14 April 2017).
- *Wired*, “[Just like humans, artificial intelligence can be sexist and racist](#)” 13 April 2017.
- *Austrian National Radio (ORF.at)*, “[Auch Computer haben Vorurteile](#) (Even computers have prejudices)” 13 April 2017.
- *The Register* “[Good job, everyone. We’re making AI just as tediously racist and sexist as ourselves](#)” 14 April 2017.
- *Popular Science* “[Language is training artificial intelligence to replicate human bias](#)”
- *Motherboard* “[It’s Our Fault That AI Thinks White Names Are More ‘Pleasant’ Than Black Names](#)” 26 August 2017.
- *CNNMoney* [Can tech be biased?](#) (video) 10 May 2017.
- *Boston Globe* “[Why artificial intelligence is far too human](#)” 7 July 2017.
- “REVEALED: AI is turning RACIST as it learns from humans” *The Express* [quoted The Guardian](#) quoting me.
- Our work got cited in the **Stephen Colbert** segment “[Stephen Colbert’s Cyborgasm: Artificial Intelligence](#)” (3:20–4:10) 11 October 2017.

Featured back-page interview, *Tages Anzeiger* (Wochenende Wissen), [Die Roboterversteherin](#), p. 60, 4 March 2017.

Quoted, *The Dose* “[Chatbots Will Change Your Life But They Won’t Be Your Friend](#)” Dec. 2016.

Quoted extensively (and incomprehensibly), *Yle* (Finland’s Swedish newspaper), “[Robotarna kommer—hur ska vi hantera dem?](#)” 25 November 2016.

Quoted in *The Register* “[US vs UK: Who’s better prepared for AI?](#)” 18 October 2016.

Quoted extensively, *New Scientist* “[Basic common sense is key to building more intelligent machines](#)” 5 October 2016.

Quoted in *The Register*, “[Robot overlords? Pshaw! I ain’t afraid of no AI — researchers](#)” 16 September 2016.

BBC World Service programme *World Have Your Say*: “AI v Humans”. 30-minute live discussion with questions from social media, on the occasion of Google AlphaGo winning its first game against Lee Sedol. 9 March 2016.

Quoted in articles:

- Manju Manghani, “Artificial intelligence to create an industrial revolution for the legal sector”, *Managing Partner*, 9 October 2015.
- Agnese Smith, “Artificial Intelligence”, *CBA/ABC National*, Fall, 2015.

BBC Newsnight, appeared with Microsoft’s Chris Bishop for a special long report at the end of BBC AI week, 17 September 2015.

BBC newsbeat (social media) “Five questions we should ask ourselves before AI answers them for us”, interviewed by Felicity Morse, 16 September 2015.

“Special Report: Does Artificial Intelligence benefit all parts of our society?”, interview / report for the website of *The Women’s Forum*, 20 August 2015.

Channel 4 7pm News: live interview on *ex Machina* and AI as a threat to middle class jobs, 20 January 2015. [video](#)

BBC World Service: live interview on Stephen Hawking and AI as existential threat, 2 December 2014.

BBC Newsnight, appeared with Nick Bostrom to discuss the ethics of Google’s Deep Mind, and AI more generally. 2 October 2014.

BBC World Service *Business Daily* prerecorded interview (with Nick Bostrom) 5 February 2014. Quoted in Steve Ranger, “Robots of death, robots of love: The reality of android soldiers and why laws for robots are doomed to failure” *Tech Republic*, 20 December 2013.

Sky News feature “Do robots need an ethical code?”, broadcast and on the web. Interviewed 25 October 2013, story was broadcast and available on line for about a week afterwards.

CBC Radio (Canada) interviewed in a two-hour radio documentary, “Mind and Machine,” (Dan Falk, director), aired throughout September 2013, streamed on the Web October 2013.

Quoted extensively, *The Register* “[US expat casts ballot from Vienna, wonders if anyone got it](#)” 6 February 2008.

BBC World Service, *Digital Planet* prerecorded interview related to the Cambridge Robot Project, broadcast 22 May 2006.

Lists and Individual Rankings

One of twenty “Academics and Researchers” in [Who’s Who in AI? Influential Voices and Brands](#), *analytica*, September 2021.

[Top 50 Women in Technology](#) Engati, 22 September 2021.

[30 Most Inspiring Women in AI](#), Engati, 10 August 2021.

[The 100 Most Influential People In AI: 2021 Edition](#) AI Newsletter, 2021.

“100 Brilliant Women of AI ethics” in 2019, and 2020, then moved to the [Hall of Fame](#) December 2020.

[MKAI’s 15 Women in AI to follow: Summer 2020 Edition](#) 23 June 2020

[Making Your Twitter Feed AI Friendly](#), Listed with only Kirk Borne, Andrew Ng, Yann LeCun, and Spiros Margaris, by Rishi Sidhu, *The Startup*, 16 January 2020.

[Top 25 AI Influencers to Follow on Twitter by 2019](#), AI Time Journal, December 2019.

[World’s 100 most influential people in digital government.](#) *apolitical*, October 2019.

[10 AI influencers you should be following on Twitter.](#) *Silicon Republic*, 19 February 2019.

[15 Global Influencers in Artificial Intelligence and Machine Learning](#) Diksha Duta, *dataconomy*, 7 September 2018.

[50 AI Twitter Influencers to Follow in 2018](#) *cognilytica*, 26 June 2018.

I’m not sure who [IPFC](#) are (a French consultancy according to their website), but they seem to like me more persistently than almost anyone but Geoff Hinton:

- [50 AI Twitter Influencers to Follow in 2018](#) *cognilytica*, 9 December 2017.
- [50 Contemporary Artificial Intelligence Leading Experts and Researchers](#), Pierre Pinna *IPFC Online*, 29 March, 2018.
- [top 50 Digital Influencer in 20 June 2019](#), and again in [14 November 2020](#).

[Hub Culture presents 100 leaders in Artificial Intelligence](#), 23 May 2018.

[Top 20 AI experts you should follow on Twitter](#), Steven Max Patterson, *Network World* 24 May, 2017.

Selected by (a reporter assisting) *IBM Watson*, “[AI Influencers 2017: Top 30 people in AI you should follow on Twitter](#)” 10 February 2017.

Commercial and Semi-Commercial/Governmental Conferences

A few of these are paid; sadly most are not (aside from travel).

Several events at [HowTheLightGetsIn Festival](#) 2021:

- HowTheLightGetsIn Academy: AI: Bias, Trust, and Doing Good (two hour event with two talks, Q&A and a quiz).
- panellist: [Models, Metaphors, and Minds](#) with Kenneth Cukier, Peter Sjostedt, and H. Mark Salter (host).
- panellist: [Dreams, Delusions and Data](#) with Kenneth Cukier, Noortje Marres, and Luke Robert Mason (host).
- panellist: [Dreams, Delusions and Data](#) with Massimo Pigliucci, Hilary Lawson and Güneş Taylor (host).

London, UK (really!) 18–19 September.

Panellist and speaker “How can new technologies and innovative tools strengthen policy solutions?” with Aleksandr Tiulkanov (Council of Europe) Karine Perset (OECD) Marc Gruber (EPFL) Benjamin Minhao Chen (Hong Kong University) Fadi Makki (Nudge Lebanon & B4Development), and Katharina Hoene (chair). [2nd AI Policy Conference](#), ‘at’ ETH, Zürich, 15 September 2021.

Panellist, ‘Ethical AI: Why should we be concerned?’ with [The 20th IFIP Conference e-Business, e-Services, and e-Society I3E2021](#), with Vasiliki Koniakou, Bill Schmarzo, David Kreps, and John Oredo (chair), ‘Galway’, 2 September 2021.

Invited speaker, *Cognition X (CogX)*, ‘London’, 14–16 June 2021.

- [We’re all developing now: AI and geopolitical inclusion](#) conversation with UNESCO’s Dorothy Gordon.
- [AI Governance: The role of the nation in a transnational world](#), panel with Sana Khareghani, Simon McDougall, Gavin Freeguard.

[Regulation of AI — Obstacle or Enabler of, Innovation](#) EmTech Europe, ‘Belfast’, NI/UK; 2 July 2021.

“AI & Data”, [Advisory Council on German Federal Administration and Civil Society](#), Hertie School, 10 June 2021.

[Development: competitive innovation in human centric AI](#), panelist with Madeleine de Cock Buning, Dominik Bösl, Mariya Gabriel, Andrea Renda, and Andrew Wyckoff, [Europe in a Changing World: The State of the Union](#) (tenth anniversary edition), European University Institute, ‘Florence’, IT. 6–8 May 2021.

“Is Safety an Option? The Limits of AI Regulation,” invited speaker and panellist, (with Adrian Weller, Tabitha Goldstaub, and Nathan Lepora) *Safe and ethical priorities for AI* session, [The Turing Presents: AI UK](#), ‘London’, 23 March 2021.

[Panel 5 – Getting Ready: Managing Business Risk and Complexity](#) with Ekkehard Ernst (ILO), Alberto-Giovanni Busetto (Adecco Group) Luca Brunner (Cognitive Valley) Dimitrios Psarrakis (MEP), and Aileen Nielsen (moderator), [AI Policy Conference](#) hosted by ETH and RegHorizon ‘Zürich’, 17 November 2020.

[Intelligence by Design: Systems engineering for the coming era of AI regulation CODIAX: Deep Tech Fueling Innovation](#), Cluj-Napoca, Transylvania, Romania. 22 November 2019.

“The role of people in an age of intelligent machines”, invited talk, [New Scientist Live](#), London UK 13 October 2019.

Invited speaker, [Tallinn Digital Summit](#), Tallinn, Estonia, 16–17 September 2019.

- Expert discussion session: “AI and Ethics”
- TDS Open Lecture, at the Tallinn University of Technology: “AI: from margins to mainstream” (two other lecturers were Stephen Hsu and Nanjira Sambuli).

- Keynote Panel: “How to deliver value in the age of AI Panel” with other panelist Hans-Christian Boos and chair Luukas Ilves.
 - Panel: AI in Democracy
 - closed lunch discussion on AI Global Governance primarily with national delegates on digital policy, I was the sole academic.
- “Regulating AI to Be Regulateable,” [The SHIFT: Business Festival](#), Turku, Finland, 29–30 August 2019.
- Invited keynote speaker “Artificial and Human Intelligence”, plus instructor of a MasterClass on AI Ethics, [Остров \(Island\) 10-22](#) (for Russian university managers and faculty members). Also did [an interview](#) with Алексей Гусев. Moscow, 13–14 July 2019.
- Invited speaker, *Cognition X (CogX)*, London, 10–12 June 2019.
- [Governance and Accountability in an AI world](#) with fellow Google ATEAC member De Kai, chaired by Azeem Azhar.
 - [AI is Necessarily Irresponsible](#), keynote.
- “Maintaining Human Control of Artificial Intelligence,” [O’Reilly Artificial Intelligence Conference](#), New York, NY, 15–18 April 2019.
- “Artificial Intelligence and Human Accountability,” keynote, *Data Summit; Data Fest*, Edinburgh, Scotland 22–23 March 2019.
- [Artificial Intelligence and Human Accountability](#), keynote, *2019 Global Summit; Hello Tomorrow!*, Paris, France, 14–15 March 2019.
- “Is AI Changing Us?” [TEDxCERN](#), 20 November 2018.
- “Artificial Intelligence and a Politically Sustainable Economy,” keynote (Google Cloud AI stage), *Singapore FinTech Festival*, 13 November 2018.
- Contracted panellist: “Law and Order on the AI frontier,” with Aimee van Wynsberghe, and Rob Cox (moderator). [Natixis Summit: Shaping the New Geopolitical World Order](#), Le Palais Brongniart, Paris, 6–7 November 2018.
- “Artificial Intelligence: Who’s In Charge?” invited keynote [FutureNow](#), Bratislava, 24 October 2018.
- [Human Minds and Machine Intelligence: Who’s the Master?](#) Invited Keynote, *Minds Mastering Machines*, London UK 15–17 October 2018.
- Invited speaker, *AI World Summit*: Panel Discussion: “Realising the transformative potential of AI: role of governance,” with Kay Firth-Butterfield, Jonnie Penn, Rumman Chowdhury, and Chelsey Colbert(moderator); also Deep Dive Tech Talk: “AI for ethics: game technology as an intervention for public understanding of social investment.” Amsterdam, 10–11 October 2018.
- Invited speaker, *Cognition X (CogX)*, London, 11–12 June 2018.
- [Debate: Should Robots Resemble Humans](#) chair: Kate Devlin, panel: Joanna Bryson, Alan Winfield, David Hanson, Will Jackson.
 - [AI Ethics](#), keynote.
 - Invited panellist (main stage), [State of AI](#).
- Contracted speaker and panellist, “The UK’s AI Revolution”, *UBS European Conference 2017*, The Landmark Hotel, London, 14–15 November 2017.
- Invited speaker, *AI World Summit*, in conversation on “From biased AI to algorithmic equity” with Virginia Dignum and Christopher Fabian (main stage); “Three very different sources of bias in AI, and how to fix them,” talk in the *Deep Dive Tech Talks and Ethics in AI* stream. Also presented award to the Afghan girls’ robot team. Amsterdam, 11–12 October 2017.
- “The real project of AI ethics” **keynote**, *O’Reilly Strata Data Conference*, New York, NY, 28 September 2017. [Video](#) was called ‘[Fascinating](#)’ by [Garry Kasparov](#) and Tim O’Reilly.
- Chair of panel, “Can I Trust My AI Therapist?” *South by Southwest (SXSW)* (invited by [swissnex](#)), Austin, TX, 14 March, 2017.