

Ethics and Public Engagement of Scientific Discoveries

The Kavli Foundation | April 16-18, 2024 | Los Angeles, CA

Chaitan Baru

NATIONAL SCIENCE FOUNDATION (NSF)

Senior Advisor

Chaitan Baru has been Senior Advisor in NSF's new Technology, Innovation, and Partnerships (TIP) Directorate since 2022, where he assists in strategy as well as ideation of new programs. He first came to NSF in 2014, as Senior Advisor for Data Science in the Computer and Information Science and Engineering Directorate. He co-chaired the NSF Harnessing the Data Revolution Big Idea, led the BIGDATA program, and initiated the HDR Data Science Corps program. He returned to NSF in 2019 as Senior Advisor for the NSF Convergence Accelerator and was on the team that launched that program. Prior to NSF, Chaitan had a 25-year career at the San Diego Supercomputer Center, University of California San Diego. He has previously worked at IBM and was member of faculty in the EECS Department, University of Michigan, Ann Arbor. He holds an ME and PhD degree in Electrical Engineering from the University of Florida and a BTech in Electronics Engineering from the Indian Institute of Technology, Madras.

Lise Bitsch

DANISH BOARD OF TECHNOLOGY (DBT)

Senior Project Manager

Lise Bitsch, PhD, Senior project manager at the Danish Board of Technology Foundation (soon to be Democracy X), experience includes leading the team on Responsible Research and Innovation (RRI), and public engagement in the EU flagship Human Brain Project, citizen engagement for the European Commission Strategic Plan HorizonEurope 2025-27, public engagement on generative AI issues for youth and AI tool development, and coordination of EU-funded co-creation projects. Current projects include community building and engagement strategies for EBRAINS and exploring and improving the interface of knowledge and democracy in a Danish national project "Knowledge and Democracy". She specializes in citizen and expert engagement on science and technology, and she has a background in Science and Technology Studies from the University of Twente (NL).

Lomax Boyd

JOHNS HOPKINS UNIVERSITY, BERMAN INSTITUTE OF BIOETHICS

Research Assistant Professor

Lomax Boyd, PhD, is a neuroscientist and bioethicist. He investigates scientific and ethical questions raised by human brain models generated through genetic engineering, xenotransplantation, and in vitro brain organogenesis. Using empirical and conceptual approaches, his research explores the neurobiological mechanisms that contribute to human cortical development, cognitive function, and moral status, with a particular interest in incorporating philosophical and empirical bioethics into neuroscientific research, training, and education. Dr. Boyd holds a primary appointment as a Research Assistant Professor at the JHU Berman Institute of Bioethics and is currently a Teaching-as-Research Fellow at the Center for Teaching Excellence and Innovation exploring the role of bioethics in neuroscience education. He previously served as a Civic Science Fellow focused on ethical issues raised by human brain organoids, and conducted his postdoctoral research at The Rockefeller University in the Laboratory of Neurogenetics of Language. He holds a PhD in developmental neurobiology from Duke University where he investigated genetic regulation of human corticogenesis using model systems.

Lauren Budenholzer

THE KAVLI FOUNDATION

Science and Society Specialist

Lauren Budenholzer, PhD, is the Public Engagement with Science Specialist at the Kavli Foundation, where she collaborates with partners to implement effective strategies to engage the public with basic science and ethical issues born from scientific discovery. Lauren also leads development and implementation of engagement activities, including meetings, workshops, and conferences. Additionally, she works to identify, develop, and implement special projects as they emerge. Prior to joining the foundation, she completed her B.A. at Pomona College in Chemistry and her PhD at Yale University in Molecular Biophysics and Biochemistry.

Juliana Chase

KAVLI CENTER FOR ETHICS, SCIENCE, AND THE PUBLIC; UC BERKELEY
PhD Candidate

Juliana Chase is currently in her final semester as a PhD Candidate in Behavioral & Systems Neuroscience at UC Berkeley, where she has been studying behavior and neural circuit differences in mouse models of autism. Juliana joined the Kavli Center for Ethics, Science, and the Public in 2023 as a graduate fellow to develop methods to bring academic and autistic advocacy communities together. While a fellow, she also co-created and taught a graduate-level seminar, 'Neuroscience, Ethics, and Society,' exploring ethical challenges posed by modern neuroscience. Juliana has been engaged in science policy and outreach organizations for the past decade contributing to mentoring, education and advocacy, including leading a two-day conference on science, ethics, and policy on UC Berkeley's campus. Following her PhD, Juliana is looking forward to joining a research postdoc where she will continue to jointly pursue her passion for basic research and a commitment to engage the publics.

Elizabeth Christopherson

RITA ALLEN FOUNDATION
President and Chief Executive Officer

Elizabeth Christopherson is President and CEO of the Rita Allen Foundation, an organization investing in transformative ideas in their earliest stages. In 1976, Rita Allen began supporting outstanding early career biomedical scientists who have gone on to make fundamental contributions to their fields of study, winning recognition including the Nobel Prize. Elizabeth now is leading the Foundation through a period of rapid expansion by developing new initiatives and coalitions that are driving increased investment in science, civic engagement, philanthropic practice, and their intersection—advancing a culture of civic science. In 2020, in partnership with influential science, media, academic, civic, and philanthropic organizations, the Foundation launched the Civic Science Fellows program to support early-career leaders working to broaden the benefits of scientific progress. An essential part of this work is to understand the ethical and societal implications of emerging research, working with communities, policy makers and other partners. Previously, Elizabeth was the first female Executive Director of New Jersey's PBS/NPR network (NJN), which through her leadership earned national awards for digital innovation, program excellence, financial support, and strong public-private sector collaborations. She is the recipient of five honorary degrees and

numerous awards for public service, including the prestigious Women Who Make a Difference Award from the International Women's Forum. She has served as a jury member and chair for international competitions, including NHK's Japan Prize and the MacArthur Foundation's 100&Change initiative. She has served on many regional and national boards and is a respected advocate for improving how philanthropy and the broader social sector listens to and learns with communities.

Judith Clarke

STONY BROOK UNIVERSITY

Vice President of Equity & Inclusion and Chief Diversity Officer

Dr. Judith Brown Clarke is the Vice President for Equity & Inclusion and Chief Diversity Officer for Stony Brook University and Health System.

She reports directly to the University President and sits on the university's senior leadership teams, including the President's Cabinet, University Council, Vice Presidents Council and Campus Climate. She possesses over seventeen years of experience working on senior management teams shaping strategic plans for diversity and establishing infrastructures for inclusive excellence and equity sustainability. She has a strong portfolio in grant funding and has demonstrated effective collection, analysis, problem solving and predictive analytical processes using benchmarked metrics that directly align with the institution's goals. Clarke is currently an American Association of State Colleges and Universities (AASCU) 2022 Millennium Leadership Initiative Fellow, Chair of the Association of American Universities (AAU) CDO Steering Committee, Co-Chair for the United State Anti-Doping Agency (USADA), Harvard Advanced Leadership Senior Fellow, and an external advisory committee member for three NSF-funded Science and Technology Centers (STC) - Center for Cellular Construction (CCC), Center for Oldest Ice Exploration (COLDEX) and Bio-Computation Evolution in Action Network (BEACON). Formerly, Clarke was a member of the External Advisory Committee for W.K. Kellogg Biological Research Station, Director's Research Advisory Committee for MSU National Superconducting Cyclotron Laboratory, International Advisory Committee for the Joint Institute for Nuclear Astrophysics, and External Advisory Committee member for Nevada's EPSCoR Grant for the Study of Solar, Wind and Water Power. Clarke has experienced great athletic success, she is a 5-time national champion, 12-time Big Ten Champion, 3-time Pan American Games gold medalist, 1984 Olympic Silver Medalist, and 1987 Sports Illustrated Woman of the Year.

Mariette DiChristina

BOSTON UNIVERSITY COLLEGE OF COMMUNICATION

Dean and Professor of the Practice, Journalism

Mariette DiChristina is dean of Boston University's College of Communication and professor of the practice in journalism. Before arriving at BU in 2019, DiChristina was the first female editor-in-chief and EVP of Scientific American, as well as EVP, Magazines Division, of its publisher, Springer Nature. In that capacity, she also oversaw Nature's journalists and the Nature Research custom content and publishing groups. An elected American Association for the Advancement of Science (AAAS) Fellow, she serves on the U.S. National Academies' Climate Crossroads advisory committee; the Civic Science Fellows program's Practice and Science of Civic Science Advisory Committee; and the Society for Science executive board. Since 2016, she's chaired the World Economic Forum's "Top 10 Emerging Technologies" Steering Group. Previously, DiChristina the National Association of Science Writers president, Popular Science's executive editor, and adjunct associate professor at NYU's Graduate Science, Health, and Environmental Reporting Program.

Cynthia Friend

THE KAVLI FOUNDATION

President

Cynthia M. Friend is the president of The Kavli Foundation and is on leave from Harvard University where she is the T.W. Richards Professor of Chemistry and Professor of Materials Science. Friend joined Harvard faculty in 1982 after earning her Ph.D. from UC Berkeley. At Harvard she served in numerous leadership positions, including Chair of the Department of Chemistry and Chemical Biology and Associate Dean of the Faculty of Arts and Sciences. She was the first female chair and the first female professor in chemistry at Harvard. Dr. Friend also served as Director of The Rowland Institute at Harvard from 2013 to 2019, a nonprofit conceived to advance science in a wide variety of fields, and was Associate Lab Director at SLAC National Accelerator Lab, a preeminent international facility for X-ray science, from 2011-2012. As a researcher, Dr. Friend published more than 300 papers. Her research group at Harvard University focused on addressing global challenges in reducing energy costs and in developing alternative energy sources. She was a research advisor for more than 75 graduate students and postdoctoral researchers and also led efforts to change policies in universities and other organizations to promote diversity. The daughter of World War II veterans, Dr. Friend was born and raised in

southern Nebraska. She credits her parents for supporting her curiosity and the space race of the mid-twentieth century in sustaining her interest in science. After graduating high school, she continued her path in science, receiving a bachelor's degree in chemistry at the University of California, Davis, and a Ph.D. in chemistry at the University of California, Berkeley. Her post-doctoral research was conducted at Stanford University. Dr. Friend serves on the board of directors at Bruker Instruments, a publicly traded company specializing in instrumentation and medical diagnostics, and currently as Chair of the U.S. Department of Energy's Basic Energy Sciences Advisory Committee. This federal committee provides independent advice on complex scientific and technical issues important in management and implementation of basic energy sciences programs. Dr. Friend is a member elected to the National Academy of Sciences (2019) and is a fellow of the American Academy of Arts and Sciences (2018), American Chemical Society (2010) and the American Association for the Advancement of Science (2009). She has received several awards from the American Chemical Society, including the ACS Award in Surface Chemistry (2017), the George A. Olah Award in Hydrocarbon Chemistry (2009) and the Francis P. Garvan-John M. Olin Garvan Medal (1991). She received the F.A. Cotton Medal for Excellence in Chemical Research in 2022.

Jodi Halpern

UNIVERSITY OF CALIFORNIA AT BERKELEY | KAVLI CENTER FOR ETHICS, SCIENCE, AND THE PUBLIC

Professor, Kavli Center Co-Director

Jodi Halpern MD, PhD, Chancellor's Chair and Professor of Bioethics at UC Berkeley, is an international leader on empathy in healthcare, respect for the rights of patients and human subjects of research, and the ethics of innovative technologies including AI, gene editing and neurotechnology. Halpern's book, "From Detached Concern to Empathy: Humanizing Medical Practice" catalyzed a wave of change in medicine. Her book, "Remaking the Self in the Wake of Illness" (expected 2024) illuminates post-traumatic growth. Her newest project "Engineering Empathy" examines AI and therapeutic relationships. Halpern co-founded the Berkeley Group on Ethics and Regulation of Innovative Technologies and the UC Berkeley Kavli Institute for Ethics, Science and the Public. Halpern received the Guggenheim 2022 Award in Medicine and Health. Jodihalpern.com

Sasha Henriques

KAVLI CENTRE FOR SCIENCE ETHICS AND THE PUBLIC (CAMBRIDGE, UK)
PhD candidate

Sasha is a principal genetic counsellor at Guy's and St Thomas's NHS Trust (GSTT), and a PhD candidate with Wellcome Connecting Science and Cambridge University (Kavli Centre for Science Ethics and the Public), UK. Her doctoral research explores the role of social justice in addressing the structural inequalities in genomic research that arise through the categories of human population descriptors. She is the course director for the GSTT Equity, Diversity and Inclusion (EDI) for Genomic Professionals Training workshop; she designed and currently delivers cross-cultural communication teaching on the MSc in Genetic Counselling programme at Cardiff University, Wales and the Scientist Training Programme (STP) for genomic counsellors in England. She is active in sharing genetics with all communities, and as such, she co-founded Genetics Engage, a public engagement platform to promote inclusivity in all things genetic.

Marina Joubert

STELLENBOSCH UNIVERSITY
Professor

Marina Joubert is an associate professor of science communication and public engagement with science at Stellenbosch University in South Africa where she has pioneered teaching, training and research in the field. Her research interests focus on scientists' roles in public engagement with science, representations of science in the mass media, and online interfaces between science and society. She is the deputy editor of the Journal of Science Communication (JCOM) and an honorary life-time member of the global PCST (Public Communication of Science and Technology) Network. She will be hosting a symposium on the communication of basic discovery science in Stellenbosch, South Africa, during November 2024.

Imran Kahn

UNIVERSITY OF CALIFORNIA BERKELEY | CENTER FOR THE SCIENCE OF PSYCHEDELICS
Executive Director

Imran Khan is executive director of the UC Berkeley Center for the Science of Psychedelics (BCSP). The BCSP exists to explore the potential of psychedelics through research, training, and public education. Imran has spent his career working at the nexus of science & society. He was previously the CEO of the British Science

Association, and Head of Public Engagement at the Wellcome Trust as well as advising lawmakers in the UK Parliament. He has presented at the Aspen Ideas Festival, the World Economic Forum, and SXSW. His writing has appeared in Nature, the Financial Times, the Guardian newspaper, and BBC News. Imran has degrees in biology and in science communication from the University of Oxford and Imperial College London, as well as an MBA from City University, London. He is also an Honorary Research Associate in Science & Technology Studies at UCL. He now lives in the San Francisco Bay Area and enjoys trail-running, many forms of nerdery, and trying to make the perfect deal.

Rachel Kline

AAAS DIALOGUE ON SCIENCE, ETHICS, AND RELIGION (DoSER)

Senior Program Associate

Rachel Kline is a science communicator with a lifelong passion for science and understanding. Her work promotes broader inclusion in science spaces and helps reshape views on the intersections of science, ethics, and religion. Her science engagement approach is practical and compassionate, focused on how science impacts people's lives. She has five years of experience in workshop development and facilitation, as well as developing other science engagement content. Rachel earned her undergraduate degree in Brain and Cognitive Sciences from MIT and her Master's in Pharmacology from Boston University. She worked in project management for nearly a decade at both nonprofits and commercial companies, managing numerous projects for clients in government, healthcare, and industry. Rachel joined AAAS in 2017 as Assistant Editor for the journal Science Robotics, and then joined the AAAS Dialogue on Science, Ethics, and Religion (DoSER) in 2019.

Joan Leach

THE AUSTRALIAN NATIONAL UNIVERSITY

Director, Australian National Centre for the Public Awareness of Science

Professor Joan Leach (BA Hons, BSc, MA, PhD) is Director of the Australian National Centre for Public Awareness of Science at The Australian National University. She is a past President of Australian Science Communicators and Chair of the National Committee for History and Philosophy of Science at the Australian Academy of Science. Her research centres on public engagement with science, medicine and technology and she has been active in the Australian

government's policy initiatives toward 'Inspiring Australia'. She is currently researching public communication of stem cell research and communication of synthetic biology in the context of agriculture and climate crisis, projects funded by the Australian National Health and Medical Research Council and Australian Research Council. She has published extensively about science communication, including *An Ethics of Science Communication* (with Fabien Medvecky). She was an editor of *Communicating Science: A Global Perspective*, downloaded over 70,000 times. While remaining transfixed by science, she advocates for better science communication that critically examines the social impacts of science, technology and biomedicine.

Reyhaneh Maktoufi

HHMI - TANGLED BANK STUDIOS

Science Communication and Outreach Fellow

Dr. Reyhaneh (Rey) Maktoufi is a DC-based, Iranian researcher and science communicator. She is the co-producer, host and illustrator of PBS|NOVA's digital series *Sciencing Out*, a mini-series on women in history who have used different strategies to communicate their science. Rey received her Ph.D. in Media, Technology, and Society at Northwestern University. She is an HHMI, Tangled Bank Studio Fellow in Science Communication, where she designs and runs evaluation and impact campaigns. Previously, Rey was a Rita Allen Foundation Civic Science Fellow in Misinformation at GBH|NOVA. As a researcher, media strategist/consultant, and impact producer, her main fields of interest are eliciting hope, curiosity, and trust and building impact campaigns that combine science and culture. She was a visiting researcher at the Adler Planetarium, where she studied science communication and facilitated workshops on communication skills. Before starting a Ph.D., Rey worked as a health communication facilitator and cancer preventive/palliative care campaign manager in Tehran, Iran.

Beza Merid

ASU SCHOOL FOR THE FUTURE OF INNOVATION IN SOCIETY

Assistant Professor

Beza Merid, Ph.D., is an assistant professor of science, technology, innovation, and racial justice in the Arizona State University (ASU) School for the Future of Innovation in Society. He also serves as the Director of the Digital Health and Racial Justice Lab, and is the Principled Innovation Catalyst for the College of Global Futures at ASU. Merid is a scholar of digital health, and his work examines how

social, cultural, and political conditions shape the uptake and distribution of benefits of digital health technologies.

Anna Middleton

UNIVERSITY OF CAMBRIDGE

Director Kavli Centre for Ethics, Science, and the Public

Professor Anna Middleton is Director of The Kavli Centre for Ethics, Science, and the Public at the University of Cambridge, UK. She leads a team of social scientists and engagement experts who deliver quantitative and qualitative research to explore how to connect discovery scientists to diverse public audiences to deliberate on the ethical issues raised by cutting edge science. As an expert in psychology and public engagement she is particularly interested in creative methods to inspire dialogue that leads to impact for both science and society. She also leads the ethics research and public engagement within the Sanger Institute, one of the largest single-site genomics research campuses in the world. Professor Middleton uses her experience as a registered genetic counsellor to create the conditions for meaningful public and scientist dialogue and has also produced numerous films on ethics of science that have received recognition at international film festivals.

Caroline Montojo

DANA FOUNDATION

President & CEO

Caroline Montojo, Ph.D., is the President and CEO of the Dana Foundation, a private philanthropic organization in New York City dedicated to advancing neuroscience and society by supporting cross-disciplinary intersections such as neuroscience and ethics, law, policy, humanities, and social sciences. Montojo leads the Foundation's new mission to advance neuroscience that benefits society and reflects the aspirations of all people. Montojo serves on the Advisory Board of the Science Philanthropy Alliance and is a member of the US National Institutes of Health BRAIN Initiative Neuroethics Working Group. She was previously the Director of Life Sciences and the Director of Brain Initiatives at The Kavli Foundation where she worked closely with The Kavli Institutes to advance science. Montojo has been deeply involved in catalytic efforts to advance neuroscience, including the US Brain Initiative and the International Brain Initiative (IBI). She served as an elected spokesperson for the IBI, giving talks at multiple scientific conferences such as the International Conference on Learning and Memory and the US National Institutes of Health Advisory Committee

to the Director of National Institute of Health (NIH) Working Group on BRAIN Initiative 2.0. She also contributes to publications on international neuroscience and neuroethics in editorials, articles, and perspectives. Montojo completed postdoctoral research in the Semel Institute for Neuroscience and Human Behavior at the University of California, Los Angeles (UCLA). Her research at UCLA focused on investigating neural biomarkers for psychiatric illness using functional magnetic resonance imaging and behavioral techniques, for which she was awarded the Arnold Scheibel Distinguished Postdoctoral Fellow in Neuroscience Award and the Stephen R. Mallory Schizophrenia Research Award. Montojo received her Bachelor of Arts degree from the University of California, Berkeley, and completed her Master of Arts and Ph.D. at Johns Hopkins University. She holds a Women in Leadership Certificate from the Cornell SC Johnson School of Business and was an invited member of the World Economic Forum Global Future Council on Neurotechnology and the National Academy of Sciences' Forum on Neuroscience and Nervous System Disorders.

Todd Newman

UNIVERSITY OF WISCONSIN-MADISON

Assistant Professor

Todd P. Newman is an assistant professor in the Department of Life Sciences Communication at the University of Wisconsin-Madison and an affiliate of the Robert F. and Jean E. Holtz Center for Science & Technology Studies and the Nelson Institute for Environmental Studies. His research focuses on the role of strategic communication within the context of science and technology.

Daniel O'Connor

WELLCOME TRUST

Head of Research Environment

Dan O'Connor is the Head of Research Environment at Wellcome and until 2019 was the Head of Humanities and Social Science. He has a PhD in the History of Medicine and was previously on the faculty at the Johns Hopkins Berman Institute of Bioethics. He has published articles on the ethical challenges of using social media in healthcare, on the ethics of human enhancement, and on the history and politics of bioethics. The Research Environment team works to ensure that all of the research that Wellcome funds is open, engaged, ethical, efficient and equitable. The team leads Wellcome's activities in research culture, open research and open access, bioethics, the social and

cultural impact of research, researcher-led engagement, and connecting Wellcome's community of researchers.

Shobita Parthasarathy

UNIVERSITY OF MICHIGAN

Professor of Public Policy and Director, Science, Technology, and Public Policy Program

Shobita Parthasarathy is Professor of Public Policy, and Director of the Science, Technology, and Public Policy Program, University of Michigan. She studies how innovation can better achieve social equity and justice, with a cross-national perspective. She has examined genetics and biotechnology, intellectual property, artificial intelligence, inclusive innovation, and the politics of knowledge and expertise in policy. She is author of numerous articles and *Building Genetic Medicine: Breast Cancer, Technology, and the Comparative Politics of Health Care* and *Patent Politics: Life Forms, Markets, and the Public Interest in the United States and Europe*. The former influenced the 2013 US Supreme Court case that determined human genes were not patentable; the latter won the American Sociological Association's Robert K. Merton Award. She regularly participates in public and policy conversation, including *The Received Wisdom* podcast she co-hosts, on science, technology, policy, and society.

Karen Peterman

CATALYST CONSULTING GROUP

President

Karen Peterman, PhD, is President of Catalyst Consulting Group, a firm that specializes in evaluation of, research on, and strategic planning for STEM programs and organizations. Karen's work has supported learning and continuous improvement related to both formal and informal STEM education programs, with a particular focus on informal learning and science communication activities that are particularly tricky to study. Her work has been published in academic journals that span several literatures, including evaluation, informal science, K12 education, public engagement with science, and science communication. Most recently, Karen and the Catalyst team have started providing strategic planning and capacity building support for communities or practice, Alliances, and Institutes who aim to broaden those who participate in the sciences. Karen earned a Ph.D. in Psychology from Duke University, and has applied those skills to the field of education since 2002. Her work has been funded by the AAAS, the Burroughs Wellcome Fund, the Glaxo Smith Klein Foundation,

IMLS, The Kavli Foundation, NASA, NIH, NSF, and the Pisces Foundation.

Darrell Porcello

CHILDREN'S CREATIVITY MUSEUM/NISE NETWORK

Director of National STEM Networks

Darrell Porcello combines expertise in education, public engagement, and technology with a robust background in science and STEM public programs. He is the Director of National STEM Networks at the Children's Creativity Museum and plays a key management role in the National Informal STEM Education Network. As a principal investigator on NSF, NASA, and NIH grants, he spearheaded the creation of exhibits, hands-on activities, websites, and apps that have reached millions of learners and educators interested in STEM topics. His recent projects include the development of the nationwide Sun, Earth, Universe exhibition, the enhancement of the Howtosmile.org digital library, and the expansion of a popular DIY science app series. Holding a Ph.D. in neuroscience from Stanford University, his current work on the Changing Brains project merges the systematic examination of emerging neurotechnologies with multidirectional dialogue between diverse participants to shape future research.

Mariam Rashid

KAVLI CENTRE FOR ETHICS, SCIENCE, AND THE PUBLIC, UNIVERSITY OF CAMBRIDGE

Engagement Associate (Postdoctoral Fellow)

Mariam has recently joined The Kavli Centre for Ethics, Science, and the Public at the University of Cambridge in England as an Engagement Associate. Prior to this, she completed an integrated Masters in Physics at the University of Durham, with a year abroad at Osaka University. Her PhD is in Astrophysics (Cosmology), and was undertaken at the Jodrell Bank Centre for Astrophysics (University of Manchester). Her role at the center is with the Translation and Innovation team, dedicated to ensuring engagement and communication methods are as smart as the science itself. She works with creatives to build environments for two-way dialogue, wherein publics and scientists can connect to discuss the ethics of the science that is shaping our shared future.

Karen Rommelfanger

INSTITUTE OF NEUROETHICS THINK AND DO TANK

Founder

Dr. Karen S. Rommelfanger is a neurotech ethicist and strategist. She is founder and director of the Institute of Neuroethics (IoNx), the first think tank wholly dedicated to neuroethics. IoNx works with builders, decision-makers, and users to enable trusted neuroscience for all. Her lab, the Neuroethics and Neurotech Innovation Collaboratory explores how evolving neuroscience challenges societal definitions of disease and wellness, cross-cultural neuroethics, and cross-sectoral neuroethics policy. Her boutique consultancy Ningen Neuroethics Co-Lab works specifically on applied neuroethics and strategy. Dr. Rommelfanger maintains a professorship in Emory University's Departments of Neurology and Psychiatry and Behavioral Sciences. She received her PhD in neuroscience and postdoctoral training in neuroscience, neural engineering, and neuroethics. Her scholarship has been published in high impact journals such as Nature, Neuron, and PNAS and she co-edited the Handbook of Neuroethics. She serves as the first neuroethicist editor at Neuron, served as senior editor of the American Journal of Bioethics Neuroscience and executive board member of the International Neuroethics Society. In recognition of her neuroethics stewardship in the neuroscience community, she was appointed to the US National Institute of Health (NIH) BRAIN Initiative Neuroethics Working Group and Defense Advanced Research Projects Agency (DARPA) ELSI Neurotechnology Panel. She has consulted for the Organisation for Economic Co-operation and Development's implementation guidance for the first international standard in responsible innovation for neurotechnology and served as rapporteur for the Council of Europe to assess proposal for novel neurorights. Dedicated to cross-cultural work in neuroethics, she co-chaired of the Global Neuroethics Workgroup of the International Brain Initiative, a consortium of large-scale national-level brain research projects and served on the World Economic Forum's Global Futures Council. She is a frequent contributor and commentator in national and international media on neuroethics strategy, neurotech innovation, and policy.

Stuart Russell

UNIVERSITY OF CALIFORNIA AT BERKELEY | CENTER FOR HUMAN-COMPATIBLE AI | KAVLI CENTER FOR ETHICS, SCIENCE, AND THE PUBLIC

Professor of Computer Science

Stuart Russell received his B.A. with first-class honours in physics from Oxford University in 1982 and his Ph.D. in computer science from

Stanford in 1986. He then joined the faculty of the University of California at Berkeley, where he is Professor (and formerly Chair) of Electrical Engineering and Computer Sciences, holder of the Smith-Zadeh Chair in Engineering, and Director of the Center for Human-Compatible AI. He has served as an Adjunct Professor of Neurological Surgery at UC San Francisco and as Vice-Chair of the World Economic Forum's Council on AI and Robotics. He is a recipient of the Presidential Young Investigator Award of the National Science Foundation, the IJCAI Computers and Thought Award, the World Technology Award (Policy category), the Mitchell Prize of the American Statistical Association, the Feigenbaum Prize of the Association for the Advancement of Artificial Intelligence, and Outstanding Educator Awards from both ACM and AAAI. From 2012 to 2014 he held the Chaire Blaise Pascal in Paris, and from 2019 to 2021 he held the Andrew Carnegie Fellowship. In 2021 he was appointed by Her Majesty The Queen as an Officer of the Most Excellent Order of the British Empire (OBE) and was selected as Reith Lecturer. He is an Honorary Fellow of Wadham College, Oxford; Distinguished Fellow of the Stanford Institute for Human-Centered AI; Associate Fellow of the Royal Institute for International Affairs (Chatham House); and Fellow of the Association for the Advancement of Artificial Intelligence, the Association for Computing Machinery, and the American Association for the Advancement of Science. His book "Artificial Intelligence: A Modern Approach" (with Peter Norvig) is the standard text in AI; it has been translated into 14 languages and is used in 1500 universities in 135 countries. His research covers a wide range of topics in artificial intelligence including machine learning, probabilistic reasoning, knowledge representation, planning, real-time decision making, multitarget tracking, computer vision, computational physiology, and philosophical foundations. He has also worked with the United Nations to create a new global seismic monitoring system for the Comprehensive Nuclear-Test-Ban Treaty. His current concerns include the threat of autonomous weapons and the long-term future of artificial intelligence and its relation to humanity. The latter topic is the subject of his new book, "Human Compatible: AI and the Problem of Control" (Viking/Penguin, 2019).

Dietram Scheufele

UNIVERSITY OF WISCONSIN-MADISON

Taylor-Bascom Chair

Dietram A. Scheufele is the Taylor-Bascom Chair and Vilas Distinguished Achievement Professor at the University of Wisconsin-

Madison. He is also an Investigator in the Morgridge Institute for Research, and a Distinguished Research Fellow at the University of Pennsylvania's Annenberg Public Policy Center. His work examines the social effects of emerging science and technology. Scheufele is an elected member of the American Academy of Arts and Sciences, and the German National Academy of Science and Engineering, and an elected fellow of the American Association for the Advancement of Science and the International Communication Association. He currently co-chairs the National Academy of Sciences, Engineering, and Medicine's (NASEM) Standing Committee on Advancing Science Communication. Since 2012, he has co-organized five NASEM Colloquia on the Science of Science Communication. His consulting portfolio includes work for DeepMind, Porter Novelli, PBS, WHO, and the World Bank.

Ionica Smeets

LEIDEN UNIVERSITY

Professor of Science Communication

Ionica Smeets is a professor of science communication and head of the department Science Communication and Society at Leiden University, The Netherlands. She combines academic research with practical science communication and policy development. Her main research interest is the gap between experts and the general public. What problems occur when those groups communicate? And what can scientists do about those problems? Smeets holds a PhD in mathematics and is a prolific science communicator on that topic, with multiple books, tv shows and columns for national outlets. She received the Iris Award for the excellence of her long-standing outreach. Smeets strongly believes that there should and can be better policies for connecting science and society. She developed an action plan for The National Centre of Expertise on Science & Society with Alex Verkade, commissioned by the Dutch minister of science. This plan has been taken over by the Dutch government and the centre will open in 2024.

Brooke Smith

THE KAVLI FOUNDATION

Science and Society, Director

Brooke Smith is the director of Science and Society at The Kavli Foundation. She leads programs aimed at strengthening the relationship between science and society. This includes portfolios focused on how publics might engage in ethical considerations born

scientific discovery; effective ways to connect basic science with publics; building the field of public engagement with science; engagement efforts of Kavli Foundation partners; and advancing science policies that enable a thriving scientific enterprise. Brooke is part of the leadership of a broader collaborative of philanthropic funders interested in the role of science in society, including as participants of the Civic Science Fellows program. Brooke's career has been built around her interest in the societal context, relevance and connections of science. Her expertise and experiences are rooted in science, science communication, public engagement of science, public policy, science journalism and organizational leadership and development. Prior to joining the foundation in 2018, Brooke served as the inaugural Executive Director of COMPASS, a leading nonprofit organization dedicated to empowering scientists to be effective communicators and to engage in the public discourse about the environment. She has worked as a university-based communication professional for multi-campus scientific initiatives, as a consultant to foundations and nonprofits, and with and for the federal government. She frequently writes and speaks about the state and future of the how to support the relationship between science and publics. Examples include "The Civic Science Imperative" published in the Stanford Social Innovation Review, the chapter "Science Communication in the United States, It's Complicated" in the international volume of the history of science communication titled, "The Emergence of Modern Science Communication," and a contributed chapter, "A Metro for Science Engagement: Building and Infrastructure to Support Scientists' Communication and Engagement," published in "Science Communication Theory and Best Practices." Brooke has also written numerous blogs, given keynote talks, and participated on panels about engaging publics in research design, processes, and application. Brooke's executive leadership and deep knowledge of nonprofits, philanthropy and governance issues have led to her service on national and local boards. She currently serves on the Center for Media Engagement Board at U.T. Austin's Moody College of Communication. Previous board positions include the National Caucus for Environmental Legislators and the Surfrider Foundation. She has been a Donella Meadows Leadership Fellow, courtesy faculty at Oregon State University, and a member of the National Academy of Sciences' Roundtable on the Public Interfaces of Life Sciences. Brooke has served on advisory boards, including the National Academy of Sciences' LabX, and has been a judge for international science engagement efforts, such as Falling Walls Engage and the Silbersalz International Science and Media Festival. Brooke has a bachelor's

degree from Duke University and an M.Sc. from Oregon State University. She lives in Culver City, CA, with her husband and two teenage daughters.

Masa Sugiyama

INSTITUTE FOR FUTURE INITIATIVES, THE UNIVERSITY OF TOKYO

Professor

Masahiro (Masa) Sugiyama is a Professor at the Institute for Future Initiatives (IFI), the University of Tokyo (UTokyo). He is an expert on long-term climate policy. His recent research projects include scenario analysis of climate and energy policy and governance of climate engineering from the public engagement perspective. He joined UTokyo in April 2014. He is a lead author of the Working Group III's contribution to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC). He is a member of Harvard SCoPEX (Stratospheric Controlled Perturbation Experiment) Advisory Committee, and is also a member of the Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection (GESAMP) Working Group 41 Ocean Interventions for Climate Change Mitigation. He holds a Ph.D. in climate science and a master's degree in technology and policy, both from MIT. Prior to joining UTokyo, he was a researcher at the Socio-Economic Research Center, the Central Research Institute of the Electric Power Industry.

Jessica Tucker

NIH

Acting Deputy Director, Office of Science Policy

Dr. Tucker is the Acting Deputy Director of the Office of Science Policy (OSP) at the National Institutes of Health (NIH), where she provides leadership on policy topics that impact biomedical research. She originally joined OSP as the Director of the Division of Biosafety, Biosecurity, and Emerging Biotechnology Policy. Previously, Dr. Tucker was a Program Director at the National Institute for Biomedical Imaging and Bioengineering (NIBIB) at NIH. She also worked at the Department of Health and Human Services (HHS), which she joined initially as an American Association for the Advancement of Science Policy Fellow. Dr. Tucker was previously a Visiting Assistant Professor at Stony Brook University in the Department of Technology and Society, where she conducted engineering education research. Dr. Tucker worked for two years in research and development in the pharmaceutical industry. Dr. Tucker holds a B.S.E. in Chemical

Engineering from Princeton University and a PhD in Chemical Engineering from Carnegie Mellon University.

Lea Witkowsky

UC BERKELEY KAVLI CENTER FOR ETHICS, SCIENCE, AND THE PUBLIC
Executive Director

Dr. Lea Witkowsky is a molecular biologist by training who has applied her knowledge to a subsequent career in science governance, ethics, and multi-perspective engagement. She is currently the Executive Director for The Kavli Center for Ethics, Science, and the Public at UC Berkeley. The new center aims to break down the barriers that separate scientists, philosophers, social scientists, and the public from each other; creating an inclusive, multidisciplinary framework for understanding the ethical implications of science and technology, and training the next generation of socially reflective scientists, and scientifically reflective humanities scholars. Prior to co-creating the UC Berkeley Kavli Center, Dr. Witkowsky was the Policy and Engagement Manager at the Innovative Genomics Institute (IGI) where she led the institute's policy, engagement, and society work and where she co-founded the Berkeley Ethics and Regulation Group for Innovative Technologies, an ideas exchange and a meeting ground for conversations and collaborations across disciplines. Her work includes publications on the ethics of genome editing, leading "CRISPR Consensus?", an international workshop on public debate and the governance of heritable genome editing, the co-creation of the first Artist Residency program at the Innovative Genomics Institute, and congressional, regulatory, and multi-stakeholder engagements on the responsible use of genome editing. Lea received her Ph.D. from UC Berkeley in 2016, from Dr. Robert Tjian's lab where she studied mechanisms of gene regulation and CRISPR-based gene editing in human cells.

Hiroshi Yokoyama

CENTER FOR DATA-DRIVEN DISCOVERY (CD3), KAVLI INSTITUTE FOR THE PHYSICS AND MATHEMATICS OF THE UNIVERSE (KAVLI IPMU), UNIVERSITY OF TOKYO

Professor, Deputy Director

Hiroshi M. Yokoyama is a Professor and Deputy director of Kavli Institute for the Physics and Mathematics of the Universe (Kavli IPMU), at the University of Tokyo. After obtaining a doctoral degree in high-energy particle physics and neutrino oscillation experiments, she switched her specialization to the sociology of science. She is

conducting research in three areas. Firstly, the development of RRI (Responsible Research and Innovation) sheets to measure AI ethics and climate engineering ethics, and international comparisons using data-driven analysis based on these sheets. The distinctive features include the use of ethical frameworks, an Asian perspective, and applying scientific methods to the analysis. Secondly, the issue of scientific trust. Although this topic is a longstanding traditional theme, it has undergone significant changes, especially in the aftermath of the COVID-19 pandemic. The third area of research is STEM gender studies. She is a member of the Graduate School of Interdisciplinary Information Studies / The University of Tokyo and runs the laboratory. I am a board member of the STS Society of Japan, the Institute of National Colleges of Technology, and the International Physics Olympiad 2023 Association.