Understanding and Addressing Misinformation about Science: A Public Workshop

Panelist and Committee Biographies

Science Misinformation Across Select Domains

MELISSA ARONCZYK is an associate professor of media and politics at Rutgers University. Her research addresses climate disinformation and corporate influence campaigns. She is the co-author, with Maria Espinoza, of *A Strategic Nature: Public Relations and the Politics of American Environmentalism* (Oxford University Press, 2022). She is also the chair of the Greenwashing Working Group for the Climate Social Science Network. Her research has been featured in *The Nation, the BBC, NPR, the Washington Post, Foreign Policy, Grist*, and the podcast *Drilled*, among other venues. Her published work is available at melissaaronczyk.com

HEIDI LARSON is Professor of Anthropology, Risk and Decision Science and is the Founding Director of the Vaccine Confidence Project at the London School of Hygiene & Tropical Medicine. She is also Clinical Professor of Health Metrics Sciences, University of Washington, Seattle, USA, and Guest Professor at the University of Antwerp, Belgium. Dr. Larson previously headed Global Immunisation Communication at UNICEF, chaired GAVI's Advocacy Task Force, and served on the WHO SAGE Working Group on vaccine hesitancy. The VCP is a WHO Centre of Excellence on addressing Vaccine Hesitancy. Professor Larson's research focuses on the analysis of social and political factors that can affect uptake of health interventions and influence policies. Her particular interest is on risk and rumour management from clinical trials to delivery – and building public trust. She is author of *STUCK: How Vaccine Rumors Start – and Why They Don't Go Away* (Oxford U Press, 2020).

MARK LYNAS is the author of five major environmental books for a mainstream readership: High Tide (2004), Six Degrees (2008), The God Species (2011), Seeds of Science (2018) and Our Final Warning (2020). Six Degrees won the Royal Society prize, was translated into 22 languages and also became a documentary film on National Geographic channel. Lynas is climate advisor to the former President of the Maldives, Mohamed Nasheed, and works with the 55-nation Climate Vulnerable Forum in this capacity. He has contributed extensively to global media, writing for the Guardian, New York Times, Washington Post, Wall Street Journal and numerous others. He is research and climate lead with the Alliance for Science at the Boyce Thompson Institute, an affiliate of Cornell University, and has co-authored peer-reviewed papers on vaccines, climate and GMOs. He is co-founder of the pro-science environmental campaign network RePlanet, launched in 2021 and now active in 15 countries. He is currently working on a book about nuclear weapons and nuclear war, to be published by Bloomsbury in 2024.

BRIONY SWIRE-THOMPSON is a Senior Research Scientist and the director of the *Psychology of Misinformation Lab* at Northeastern University. She is also a fellow at Harvard University's Institute for Quantitative Social Science. Her research investigates what drives belief in inaccurate information, why certain individuals are predisposed to refrain from belief change even in the face of good corrective evidence, and how corrections can be designed to maximize impact. She received her Ph.D. in psychological science from the University of Western Australia and was subsequently a Fulbright scholar at MIT's Political Experiments Research Laboratory. She is currently funded by a NIH Pathway to Independence Award from the National Cancer Institute and studies cancer misinformation.

Differential Impacts of Science Misinformation

CABRAL BIGMAN-GALIMORE is an Assistant Professor in the Department of Communication at the University of Illinois Urbana-Champaign. Her research and teaching interests include communication and health inequalities, health communication, risk communication, and media effects. She is particularly interested in the influence that messages about comparative risk and inequality have on health and communication-related behavior. She received her Ph.D. and M.A. from the University of Pennsylvania in the Annenberg School of Communication and holds a B.A. from Oberlin College.

ROBERTA BRAGA is director for counter-disinformation strategies at Equis, a set of organizations working to better understand the Latino electorate in the United States. She previously managed global content and campaigns at the law firm Baker McKenzie and served as deputy director for programs and outreach at the Atlantic Council's Adrienne Arsht Latin America Center. Over her five years in the think tank world, Roberta helped to shape the intellectual framework for the Council's Latin America programming and led programming on Brazil and projects on democracy-building, countering disinformation and misinformation in elections, and trade integration. Roberta has also worked at the US Department of Homeland Security, Promega Corporation, and the Federal Communications Commission. She earned her MA in Global Communication with a focus on Public Diplomacy from The George Washington University and her BA in Journalism and International Security from the University of Wisconsin-Madison. Originally from Brazil, she is a native Portuguese- and English-speaker, and fluent in Spanish.

MARK CALAGUAS is the Product Counsel for Tayo. An attorney based in Chicago, Marks practices at the confluence of law and technology, with a focus on data privacy and electronic discovery. Mark is a founding board member and current at-large trustee of the National Filipino American Lawyers Association (NFALA) and serves as president of the Filipino American Lawyers Association of Chicago (FALA Chicago), as well as vice board chair of the Alliance of Filipinos for Immigrant Rights and Empowerment (AFIRE). Mark also sits on the Illinois State Advisory Committee of the United States Commission on Civil Rights. He earned a B.A. from the University of Michigan and his J.D. from the Loyola University Chicago School of Law.

LEEZEL TANGLAO is a bridge journalist at the intersection of editorial, product, marketing, business development, and tech, and is the Project Director of Tayo, a virtual help desk for Filipinos during COVID-19. She also currently serves as the Senior Digital Director at the Dallas Morning News. Prior to this, she was the Director of Audience Insights and Innovation at The Points Guy. She consults with media companies through her company, StatFury. She is a 2019 Filipino Young Leaders Program (FYLPRO) delegate and is FYLPRO's 2022-2023 President. She is the chair of the FYLPRO COVID-19 Taskforce. She received her bachelor's degree in English from Loyola Marymount University and a Master's degree in Asian American Studies from UCLA.

JASON YOUNG is a Senior Research Scientist and Affiliate Assistant Professor at the University of Washington Information School and holds affiliations with the Technology and Social Change Group, the Center for an Informed Public, and the Henry M. Jackson School of International Studies. His research explores the use and impact of information & communication technologies on Indigenous and rural communities in the United States and globally. His projects examine rural engagements with technology from a holistic perspective and strongly emphasize community-based and participatory methods, with the goal of amplifying the benefits and minimizing the drawbacks of technology for partner communities. He is currently leading a $5 million National Science Foundation project, titled Co-Designing for Trust, which is working with rural educators to co-design new digital literacy approaches for addressing mi- and disinformation. This project highlights the differential impacts of misinformation on rural communities and points toward effective and localized approaches for building rural resilience against the impacts of misinformation. Jason received his Ph.D. from the University of Washington Department of Geography in 2017.

Individual-Level Interventions to Address Misinformation

JOEL BREAKSTONE directs the Stanford History Education Group. He leads SHEG's efforts to research, develop, and disseminate free curriculum and assessments. This work has been featured in *The New York Times*, NPR, *The Wall Street Journal*, and *The Boston Globe*. His research has appeared in a range of journals, including *Educational Researcher*, *Misinformation Review*, and the *Journal of Educational Psychology*, and has won awards from the American Historical Association, the National Council for the Social Studies, and the National Technology Leadership Initiative. He received his Ph.D. from the Stanford Graduate School of Education. Before Stanford, he taught high school history in Vermont.

ETHAN PORTER is an associate professor in the School of Media and Public Affairs and the Department of Political Science at George Washington University. He is also the Cluster Lead of the Misinformation/Disinformation Lab at GW's Institute for Data, Democracy and Politics. His research has appeared or is forthcoming in Proceedings of the National Academy of Sciences, Journal of Politics, Social Forces, Political Analysis, Political Behavior, Political Communication and other journals. He has written for The New York Times, The Washington Post and other popular publications, and has received grant support from the National Science Foundation, the Social Science Research Council and the Omidyar Network. He received his Ph.D. from the University of Chicago.

EMILY VRAGA is the Don and Carole Larson Professor in Health Communication at the University of Minnesota's Hubbard School of Journalism and Mass Communication. Her research tests methods to identify and correct misinformation on social media, to build news literacy to improve audience resiliency, and to encourage attention to more diverse content online. Vraga has published over 90 journal articles in the interdisciplinary fields of communication, political science, journalism, and public health. Her work has been supported by the National Science Foundation and the Andrew Carnegie Corporation, and she has worked with international health organizations and social media platforms to improve efforts to address misinformation online. Vraga and her research have appeared on major media outlets, including *National Public Radio*, *Scientific American*, *The Washington Post*, and *The Atlantic*.

Institutional/Organizational/Community-Level Interventions to Address Misinformation

VICTOR PICKARD is a Professor of Media Policy and Political Economy at the University of Pennsylvania's Annenberg School for Communication. Prior to Penn, he taught media studies at the Department of Media, Culture, and Communication at NYU and he received his doctorate from the Institute of Communications Research at the University of Illinois. Previously he worked on media policy in Washington, D.C. as a Senior Research Fellow at the media reform organization Free Press and the public policy think tank the New America Foundation where he continues to advise their Open Technology and Media Policy Initiatives. He also taught media policy at the University of Virginia and served as a policy fellow for Congresswoman Diane Watson. His research explores the intersections of U.S. and global media activism and politics, media history, democratic theory, and communications policy. With Robert McChesney, he is the co-editor of the book *Will the Last Reporter Please Turn out the Lights* (The New Press), and the author of *America's Battle for Media Democracy* (Cambridge). He holds a B.A. from Allegheny College, an M.A. from the University of Washington, and a Ph.D. from the University of Illinois, Urbana-Champaign.

KAVITHA RAJAGOPALAN is director of the Asian Media Initiative at the Center for Community Media for the Craig Newmark Graduate School of Journalism at the City University of New York. In this role, she develops programming, research, community spaces, and peer-to-peer networks to sustain and support media for and by Asian American and Pacific Islander communities across the U.S. Previously, she served as CCM's community engagement manager, where she produced the center's biweekly newsletter, managed its social media, engaged with regional and other strategic partner organizations, and created community spaces for community media journalists. The Asian Media Initiative builds on her work in that role to highlight and amplify the national Asian media sector, from convening public conversations to publishing a groundbreaking report, [Asian Media on the Front Lines](#). Kavitha is an author and expert on global migration and urban immigrant communities. Her writing has appeared in The New York Times, The Nation, and Atlantic's CityLab, as well as various academic journals and policy magazines. She has also offered expert commentary on MSNBC and as an op-ed columnist for The Observer, PBS Online, and Newsday. She holds a master's in international affairs from Columbia University's School of International and Public Affairs and a B.A. from the College of William & Mary. She is the recipient of a Fulbright Scholarship in political science.

ABHISHEK ROY is a Senior User Researcher for Google's Trust & Safety team. He leads user research efforts on extremism, misinformation and measurement of user harms in Google's Trust & Safety team. In this role, he leads quantitative and qualitative research studies focused on gaining insights into user behavior, perceptions and preferences in order to drive actionable changes that promote user protection, and advocate for changes with product and policy teams. He has worked at Google for about 10 years and previously led a team conducting user research and policy enforcement efforts for products like Google News, Google Discover and Google Search. Roy earned his bachelor's degree in Civil Engineering from VIT University, Vellore in India.

Committee on Understanding and Addressing Misinformation about Science

KASISOMAYAJULA "VISH" VISWANATH (Chair) is Lee Kum Kee Professor of Health Communication in the Department of Social and Behavioral Sciences at the Harvard T. H. Chan School of Public Health (HSPH) and in the McGraw-Patterson Center for Population Sciences at the Dana-Farber Cancer Institute (DFCI). He is also the Faculty Director of the Health Communication Core of the Dana-Farber/Harvard Cancer Center (DF/HCC). Other additional administrative and scientific leadership positions held by Dr. Viswanath include: Director of the Center for Translational Communication Science, DFCI/Harvard Chan. Dr. Viswanath's work, drawing from literatures in communication science, social epidemiology, and social and health behavior sciences, focuses on translational communication science to influence public health policy and practice. His primary research is in documenting the relationship between communication inequalities, poverty and health disparities, and knowledge translation to address health disparities. He has written more than 280 journal articles and book chapters concerning communication inequalities and health disparities, knowledge translation, public health communication campaigns, e-health and digital divide, public health preparedness and the delivery of health communication interventions to underserved populations. He was also the Editor of the Social and Behavioral Research section of the 12-volume International Encyclopedia of Communication (Blackwell Publishing, 2008 He delivered the 23rd Annual Aubrey Fisher Lecture at University of Utah in 2009. He was elected Fellow of the International Communication Association (2011), the Society for Behavioral Medicine (2008) and the Midwest Association for Public Opinion Research (2006). He has served on and continues to serve several national committees including for CDC, NIH, US DHHS and NASEM.

NICK ALLUM is Professor of Research Methodology at the University of Essex. His research encompasses survey methodology, research integrity, public understanding of science, social and political trust. Dr. Allum teaches statistical methods and research methodology at Essex. He served as General Secretary of the European Survey Research Association from 2012 to 2016. Dr Allum served on the National Academies of Science, Engineering and Medicine's Committee on Science Literacy and Public Perception of Science in 2016. Previously he was also a member of the National Science Foundation's expert panel on Science Literacy Indicators, which contributed to the National Science Board chapters on public attitudes and knowledge about science and technology. Dr. Allum received his B.A. in Political Economy from the University of East London, his M.Sc. in Social Research Methods from the London School of Economics, and his Ph.D. in Social Psychology at the London School of Economics.

NADINE J. BARRETT is a Medical Sociologist and Assistant Professor in the Department of Family Medicine and Community Health at Duke University. She is co-Director of the Duke Clinical and Translational Science Institute, inaugural and founding director of the Duke CTSI Center for Equity in Research, and Associate Director of Equity and Stakeholder Strategy for the Duke Cancer Institute (DCI). Dr. Barrett is a health disparities researcher, expert equity strategist, and a nationally-recognized leader in facilitating community and academic partnerships to advance health equity. She develops multi-level interventions to address structural and systemic racism and implicit biases that limit access to quality health information, health care, and research among historically marginalized populations. Dr. Barrett created Just ASK, a national program designed to enhance diverse participation and representation in clinical research and trials. She successfully develops and implements community based interventions to increase research participation of underrepresented race and ethnic groups in biomedical, clinical, and translational research. Dr. Barrett contributes to national guidelines and reports including the 2022 ASCO and ACCC joint guidelines and recommendations to increase diverse representation in clinical trials, and the 2020 AACR Health Disparities Report. She is the 2017 recipient of the ACCC National Innovator Award as the inaugural director of the DCI's Office of Health Equity. Dr. Barrett completed a Master's of Arts in Sociology and Social Inequities at the University of Central Florida, a joint Master of Science in Community Health Sciences and PhD in Medical Sociology and Race and Ethnic Relations from Texas Woman's University, and an NIH Postdoctoral Fellowship at the University of North Carolina at Chapel Hill.

DAVID A. BRONIATOWSKI is an Associate Professor of Engineering Management and Systems Engineering in GW's School of Engineering and Applied Science, and the Associate Director of GW's Institute for Data, Democracy, and Politics. He also directs the Decision-Making and Systems Architecture Laboratory. He conducts research in decision-making under risk, group decision-making, the design and analysis of complex systems, and behavioral epidemiology. This research program draws upon a wide range of techniques including formal mathematical modeling, experimental design, automated text analysis and natural language processing, social and technical network analysis, and big data. His work on systematic distortions of public opinion about vaccines on social media by state-sponsored trolls has been widely reported in the academic and popular press.

AFUA A. N. BRUCE is a leading public interest technologist who has spent her career working at the intersection of technology, policy, and society. She has worked in and across the government, non-profit, private, and academic sectors as well as held senior science and technology positions at DataKind, New America, the White House, the FBI, and IBM. With Afua's background in software engineering, data science, and artificial intelligence, combined with experience developing and deploying technology in and with communities, she incorporates an equity-based framework into her engagements. Afua is currently the principal of the ANB Advisory Group LLC, a consulting firm that supports organizations developing, implementing, or funding responsible data and technology. The ANB Advisory Group works with philanthropic institutions, tech companies, and nonprofits to change how technology is developed and used. Afua is an adjunct professor of the Heinz College of Information Sciences at Carnegie Mellon University, a Visiting Practitioner for Cornell Tech's Public Interest Tech (PI-Tech) program, an affiliate of the Berkman Klein Center for Internet & Society at Harvard University, and an affiliate of the Tayarisha is The African Centre of Excellence for Digital Governance at the University of Witwatersrand-Johannesburg. Afua has a bachelor's degree in Computer Engineering from Purdue University and a master's degree in Business Administration from the University of Michigan. Her newest book, The Tech That Comes Next: How Changemakers, Technologists, and Philanthropists can Build an Equitable World, describes how technology can advance equity.

LISA FAZIO is an Associate Professor of Psychology at Vanderbilt University. Her research focuses on how children and adults learn true and false information from the world around them, and on how to correct errors in people's knowledge. Her work spans multiple disciplines including cognitive, developmental, educational, and social psychology and informs basic theories about psychological processes, while also having clear applications for practitioners, such as journalists and teachers. She received the Early Career Impact Award from the Federation of Associations in Behavioral & Brain Sciences in 2020 and the Frank Research Prize in Public Interest Communications in 2017. Her research is currently supported by major grants from both NSF and the Mercury Project. Dr. Fazio is a fellow of the Association for Psychological Science and the Psychonomic Society. She earned her doctorate from Duke University in 2010 and graduated summa cum laude from Washington University in St. Louis in 2004.

LAUREN FELDMAN is an associate professor in the School of Communication & Information at Rutgers University. She was previously on the faculty at American University. Her current research emphasizes three intersecting areas of interest: climate change communication, partisan media and misinformation, and comedy and social change. Feldman's research has been widely published in peer-reviewed journals and edited volumes, and she is co-author of the book, A Comedian and an Activist Walk into a Bar: The Serious Role of Comedy in Social Justice (University of California Press, 2020). Her work has been recognized with various academic awards, including article of the year awards from Mass Communication & Society and from the political communication division of the International Communication Association. Feldman serves on the editorial boards of the Journal of Communication, Communication Research, and Environmental Communication, and she is an affiliate of the Rutgers Climate Institute and the George Mason University Center for Climate Change Communication. Feldman earned a B.A. in English from Duke University and an M.A. and Ph.D. from the Annenberg School for Communication at the University of Pennsylvania.

DEEN FREELON is an associate professor at the UNC Hussman School of Journalism and Media at the University of North Carolina and a principal researcher at the Center for Information, Technology, and Public Life (CITAP). Freelon earned his Ph.D. from the University of Washington in 2012 and formerly taught at American University in Washington, D.C. His theoretical interests address how ordinary citizens use social media and other digital communication technologies for political purposes, paying particular attention to the diffusion and mitigation of mis-and disinformation. Methodologically, he is interested in how computational research techniques can be used to answer some of the most fundamental questions of communication science. His scholarship has been financially supported by grantmakers including the U.S. Institute of Peace, the Spencer Foundation, the Knight Foundation, and the Hewlett Foundation; and published in top-tier journals including Nature, Science, and the Proceedings of the National Academy of Sciences.

ASHELEY R. LANDRUM is an associate professor and interim assistant dean for research in the College of Media & Communication at Texas Tech University. She was previously a Howard Deshong Postdoctoral Fellow in the Science of Science Communication at the Annenberg Public Policy Center of the University of Pennsylvania and a Life Sciences Fellow at the Wissenschaftskolleg zu Berlin. Dr. Landrum's research investigates how values and worldviews influence people's selection and processing of science (mis)information. Her work on the Flat Earth YouTube phenomenon, specifically, won her Texas Tech's Chancellor's Council Distinguished Research Award and the Billy I. and Avis M. Ross Achievement Award. Dr. Landrum's research (in collaboration with KQED Science) has been funded by the National Science Foundation, the Templeton Religion Trust, and the Templeton World Charity Foundation. She holds a Ph.D. in Psychological Sciences and an MS in Cognitive Science from the University of Texas at Dallas and a Bachelor of Arts in Philosophy from the University of Texas at Austin.

DAVID LAZER is University Distinguished Professor of Political Science and Computer Sciences at Northeastern University, and Visiting Fellow at the Institute for Quantitative Social Science at Harvard University. He has published prominent work on misinformation, democratic deliberation, collective intelligence, computational social science, and algorithmic auditing, across a wide range of prominent journals. His research has received extensive coverage in the media, including the New York Times, NPR, the Washington Post, the Wall Street Journal, and CBS Evening News. He is a co-leader of the COVID States Project, one of the leading efforts to understand the social and political dimensions of the pandemic in the United States. He is a fellow of the National Academy of Public Administration and is a member of the Standing Committee on Advancing Science Communication Research and Practice for the National Academies of Sciences, Engineering, and Medicine. He has a Ph.D. from the University of Michigan in Political Science.

EZRA M. MARKOWITZ is an Associate Professor of Environmental Decision-Making in the Department of Environmental Conservation at the University of Massachusetts; he is also a Fellow with the FrameWorks Institute. Formerly, he was a postdoctoral research associate at Princeton University and an Earth Institute postdoctoral fellow at Columbia University. His research, teaching and outreach focus on the intersection of decision-making, persuasive communication, public engagement with science, and environmental sustainability. He is particularly interested in the practical application of behavioral science to improve individuals' and communities' environmental decision-making; he also has deep expertise in the field of climate change communication and public engagement. He is the author of over five dozen peer-reviewed research papers, book chapters, and reports, including the 2015 Connecting on Climate guide to climate change communication. He is a Fellow of the American Psychological Association and an author on the 5th National Climate Assessment for the USGCRP; he was awarded the Early Career Achievement award by the Society for Environmental, Population and Conservation Psychology in 2017. He received his Ph.D. in Environmental Sciences, Studies, and Policy in 2012 and his MS in Psychology in 2008 from the University of Oregon; he completed his BA in Psychology in 2007 at Vassar College.

PAMELA RONALD (NAS) completed her Ph.D. at UC Berkeley (1990), earned a B.S. from Reed College (1982), an M.S. from Stanford University and an M.S. from the University of Uppsala, Sweden. Prof Ronald uses genetic techniques to understand the plant response to infection and tolerance to environmental stress. With her collaborators, she received the 2008 USDA National Research Initiative Discovery Award and the 2012 Tech Award for the innovative use of technology to benefit humanity. In 2015 Scientific American named her one of the 100 most influential people in biotechnology. Ronald's book, Tomorrow's Table: Organic farming, Genetics and the Future of Food was selected as one of a 25 most influential books with the power to inspire college readers to change the world. Her 2015 TED talk has been viewed by more than 2 million people and translated into 26 languages. In 2019, she received the American Society of Plant Biologists Leadership Award and an honorary doctorate from the Swedish Agricultural University. In 2020 she was named a World Agricultural Prize Laureate by the Global Confederation of Higher Education Associations for Agricultural and Life Sciences. In 2022 she was awarded the Wolf Prize in Agriculture. Ronald is an elected member of the U.S. National Academy of Sciences and the American Academy of Arts and Sciences.

DAVID SCALES is an internal medicine hospitalist and assistant professor of medicine at Weill Cornell Medicine and Chief Medical Officer at Critica, an NGO focused on building scientific literacy. His research focuses on medical communication in clinical and online settings, including understanding how structural factors affect our information environments to allow misinformation to propagate and misconceptions to persist. Dr. Scales' work leverages qualitative and quantitative methods to address the problem of health-related misinformation, training "infodemiologists" to build Covid-19 vaccine confidence in online communities with community-oriented motivational interviewing. Dr. Scales received his MD and PhD from Yale University, where his sociology dissertation examined how the World Health Organization seeks to control the spread of diseases across international borders. He completed a primary care Internal Medicine residency at Cambridge Health Alliance in Cambridge, Massachusetts. Dr. Scales holds a certificate of medical interpretation in Levantine Colloquial Arabic from U. Mass Amhurst and has worked with refugees in the United States and throughout the Levant.

BRIAN SOUTHWELL is a Senior Director at RTI International. He also is Adjunct Professor of Internal Medicine at Duke University and Adjunct Associate Professor in Health Behavior at the University of North Carolina at Chapel Hill. In addition, Southwell hosts a public radio show called The Measure of Everyday Life. He co-founded the Duke Program on Medical Misinformation to improve patient-provider conversations, has published a relevant book, Misinformation and Mass Audiences, and has been featured in outlets such as JAMA. He has consulted with the National Academies of Science, Engineering, and Medicine and the National Institutes of Health on misinformation mitigation and served on the Advisory Committee for the Council of Medical Specialty Societies-National Academy of Medicine-World Health Organization Collaboration on Identifying Credible Sources of Health Information in Social Media. Southwell has organized summits on trust in science and misinformation with support from the Rita Allen Foundation and the Aspen Institute. He also has won awards for scholarship from the International Communication Association and National Communication Association and teaching recognition at the University of Minnesota. Southwell holds a Ph.D. and MA from the University of Pennsylvania and a BA from the University of Virginia.

JEVIN WEST is an Associate Professor in the Information School at the University of Washington. He is the co-founder of the new Center for an Informed Public at UW aimed at resisting strategic misinformation, promoting an informed society and strengthening democratic discourse. He is also the co-founder of the DataLab at UW, a Data Science Fellow at the eScience Institute, and Affiliate Faculty for the Center for Statistics & Social Sciences. His research and teaching focus on the impact of data and technology on science and society, with a focus on slowing the spread of misinformation. He is the co-author of the new book, Calling Bullshit: The Art of Skepticism in a Data-Driven World, which helps non-experts question numbers, data, and statistics without an advanced degree in data science.

Committee Staff

TIFFANY E. TAYLOR (Study Director) is currently a Program Officer for the Board on Science Education (BOSE) at the National Academies of Sciences, Engineering, and Medicine. In this role, she provides research, planning, and management support for several ongoing projects including the Standing Committee on Advancing Science Communication and the Symposium on the Future of Undergraduate STEM Education. Additionally, she is co-leading an expert study requested by NASA on Increasing Diversity and Inclusion in the Leadership of Competed Space Missions, in collaboration with the Space Studies Board. She is extremely passionate about the inclusion of persons of diverse background in science, and aspires to leverage her Ph.D. training and science policy experience to address education equity within society, in both domestic and global settings. She came to the National Academies as a Christine Mirzayan Science and Technology Policy Fellow in 2017, where she also worked with the Board on Science Education. She received her bachelor's degree in Biology from Howard University and her Ph.D. in Biomedical Sciences from the University of California, San Diego (UCSD).

LETICIA GARCILAZO GREEN is a research associate for the Board on Science Education at the National Academies of Science, Engineering, and Medicine. As a member of the board staff, she has supported studies focusing on criminal justice, science education, science communication, and climate change. She has a B.S. in psychology and a B.A. in sociology with a concentration in criminology from Louisiana State University and an M.A. in forensic psychology from The George Washington University.

HOLLY G. RHODES is a senior program officer at the National Academies of Sciences, Engineering, and Medicine in the Division of Behavioral and Social Sciences and Education. She is study director of the Standing Committee on Advancing Science Communication, study director for Effective Health Communication in the Current Information Environment and the Role of the Federal Government: A Workshop, and a co-lead of the Climate Communications Initiative. Rhodes directed the Roundtable on the Communication and Use of Social and Behavioral Sciences and contributed to Communicating Science Effectively: A Research Agenda. Previously, she was a deputy project director at RTI International. She holds master's and doctorate degrees in education from the University of North Carolina at Chapel Hill.

LAUREN RYAN is a Senior Program Assistant for the Board on Science Education at the National Academies of Sciences, Engineering, and Medicine. She previously worked as a patent examiner at the U.S. Patent and Trademark Office, reviewing applications related to cell culture and biological analysis instruments. In her work at the National Academies, she has supported projects related to K-12 science standards, data science, undergraduate STEM education, and science communication. Lauren received her B.S. in biomedical engineering from the University of Maine.

HEIDI SCHWEINGRUBER is the director of the Board on Science Education at the National Academies of Sciences, Engineering, and Medicine. She oversees a portfolio of work that includes K-12 science education, informal science education, and higher education. Dr. Schweingruber joined the staff of the board in 2004 as a senior program officer. In this role, she directed or co-directed several projects including the study that resulted in the report *A Framework for K-12 Science Education* (2012), the blueprint for the Next Generation Science Standards. Dr. Schweingruber is a nationally recognized leader in leveraging research findings to catalyze improvements in science and STEM education policy and practice. She holds a Ph.D. in psychology (developmental) and anthropology from the University of Michigan.

National Academy of Medicine Fellows

ELLEN EATON is an Associate Professor in the Department of Medicine and Division of Infectious Diseases at the University of Alabama at Birmingham. Her research and patient care centers on infectious consequences of substance use and mental illness. Her lab is developing and testing interventions that leverage addiction treatment as a means to improve infection prevention and treatment. Ellen is the Director of the UAB HIV/Office Based Opioid Treatment Clinic. She previously served as the Infectious Diseases advisor for Birmingham Mayor Randall Woodfin's COVID Response Team and Branch Director of Special Populations for the Jefferson County COVID Incident Command Center. In 2017, Ellen received the National Academy of Medicine's Omenn Fellowship in Public Health and Policy, and more recently she was named an Emerging Leader in Health and Medicine by the National Academy of Medicine. She earned her Master of Public Health and Doctor of Medicine degrees from the University of Alabama at Birmingham.

PAULE JOSEPH is Lasker Clinical Research Scholar Tenure Track Clinical Investigator and Chief of the Section of Sensory Science and Metabolism (SenSMet) in Division of Intramural Clinical and Biological Research (DICBR) at the National Institute of Alcohol Abuse and Alcoholism with a joint appointment at the National Institute of Nursing Research. She is the inaugural American Academy of Nursing Fellow. Dr. Joseph leads a multidimensional translational research program combining research and clinical practice focused on chemosensation (taste and smell), obesity, and substance abuse. Dr. Joseph is a leader of national and global nonprofit organizations dedicated to decreasing health disparities and increasing minority health promotion and access. When individuals reported taste and smell loss during the COVID-19 pandemic, Dr. Joseph and her team began investigating the effects of the SARS-CoV-2 virus on the chemical senses. Dr. Joseph received an Associate Degree in Applied Sciences in Nursing at Hostos Community College, a BSN from the College of New Rochelle, an MBA from Quantic School of Business & Technology, and an MS with a specialty as a Family Nurse Practitioner from Pace University. She completed a Ph.D. in nursing with a focus in genomics at the University of Pennsylvania and conducted her Ph.D. work at the Monell Chemical Senses Center. She then completed a Clinical and Translational Postdoctoral Fellowship focused on genomics, nutrition, and gastrointestinal diseases at the NINR, which was supported by the Office of Workforce Diversity. Dr. Joseph is a certified nurse practitioner with clinical privileges at the NIH Clinical Center and outside NIH.