**Mahmud Farooque, Ph.D.**
Clinical Associate Professor and Associate Director DC Operations, School for the Future of Innovation in Society; Associate Director, Consortium for Science, Policy and Outcomes; Senior Global Futures Scholar, Julie Ann Wrigley Global Futures Laboratory, Arizona State University

## CAREER SUMMARY

***Research Centers and Programs Director and Science Policy Expert*** *with unique background and steady record of accomplishments in advancing scholarship and practice at the interface of science, technology and public policy. 30-year combined experience working in academic settings with faculty and senior staff, in policy settings with business and government leaders and the public, and in industrial settings with multi-national corporations in advancing shared goals and strategic objectives in higher education and research and development in the aerospace, biotech, infotech, energy, environment, and transportation sectors.*

## PROFESSIONAL EXPERIENCE

**Arizona State University**, Washington, DC — 2009 - Present
- **Senior Global Futures Scholar**—Julie Ann Wrigley Global Futures Laboratory (Aug 2021 – Present)
- **Associate Director DC Operations**—School for the Future of Innovation in Society (Aug 2019 – Present)
- **Associate Clinical Professor**—School for the Future of Innovation in Society (SFIS) (Aug 2016 – Present)
- **Associate Director**—Consortium for Science, Policy and Outcomes (CSPO), DC Office (Nov 2009 - Present)

**Purdue University**, NEXTRANS Center, West Lafayette, IN — 2007 – 2009
- **Managing Director**—USDOT Region V Regional University Transportation Center (UTC)

**Northwestern University**, Office for Research Development, Evanston, IL — 2006 – 2007
- **Associate Director**—Research Development in the Physical Sciences and Engineering

**City University of New York**, Office of Academic Affairs, New York, NY — 2004 – 2006
- **Coordinator**—Special Research Projects, **Director**—Special Collaborative Projects

**New York Academy of Sciences**, Policy Program, New York, NY — 2001 – 2002
- **Deputy Director**, Technology in Economic Development Project

**George Mason University**, Center for Transportation Analysis, Fairfax, VA — 2000 - 2001
- **Research Assistant**

**Columbia University**, Center for Science, Policy and Outcomes, Washington, DC — 1998 - 1999
- **Research Assistant**

**George Mason University**, Center for Regional Analysis, Fairfax, VA — 1996 - 1998
- **Research Assistant**

**Syracuse University**, Center for Technology and Information Policy, Syracuse, NY — 1995 - 1996
- **Research Assistant**

**Houston Advanced Research Center**, Center for Global Studies, Woodlands, TX — 1995 - 1995
- **Research Assistant**

**Kellogg, Brown and Root** (formerly M.W. Kellogg Company), Houston, TX — 1989 - 1993
- **Engineering Tech, Associate Engineer, Engineer**—*Electrical Design Engineering Department*

**City of Austin Electric Utility**, Austin, TX — 1986 - 1988
- **Cooperative Education Student**; *Relay and Substation Control Engineering Department*

## EDUCATION

**George Mason University**, School of Public Policy, Fairfax, VA 2004
*PhD in Public Policy* (Science, Technology, Public Policy and Governance)
**Syracuse University**, Maxwell School of Citizenship and Public Affairs, Syracuse, NY 1996
*Master of Public Administration* (Technology and Information Policy)
**University of Houston—Downtown**, College of Natural Science and Mathematics, Houston, TX 1995
*BS in Applied Physics* (Scientific Computation)
**University of Houston—University Park**, Cullen College of Engineering, Houston, TX 1985-1990
*Undergraduate Program in Electrical Engineering* (Power, Controls and Communications)

## GRANTS

PI, "Public Forums on CDR in the U.S. and Canada," (Alfred P. Sloan: $249,992) 2022-2024
PI, "Human Gene Editing Issue Guide," (Kettering Foundation: $20,000) 2019-2021
PI, "ECAST-ASTC Community Innovation Fellowship Program," (PIT-UN: $180,000) 2019-2021
Co-PI, "Preparing for Genomic Editing Technologies: An Anticipatory Approach," (NIH: $541,365) 2019-2022
PI, "Citizen Science, Civics, and Resilient Communities (CSCRC)," (NOAA: $100,898) 2018-2021
Senior Personnel, "Participatory Technology Assessment and Cultures of Expertise," (NSF: $5,200) 2018-2021
PI, "Navigating Our Shared Driverless Futures," (Charles Koch Institute: $200,000) 2018-2019
PI, "Look who's Driving," (Alfred P. Sloan Foundation: $60,000) 2018-2019
PI, "Mission Control for Earth Workshop," (Windward Fund: $28,701) 2018-2019
Co-PI, "Democratic Governance of Geoengineering Research," (Alfred P. Sloan: $299,574) 2017-2019
Co-PI, "Driverless Car Issue Guide," (Kettering Foundation: $20,000) 2017-2018
Co-PI, "Science Center Public Forums," (NOAA: $499,901) 2015-2018
PI, "Participatory Engagement for Energy Policy Planning and Decision-making," (DOE: $1,080,170) 2016-2017
Co-PI, "Participatory Technology Assessment of NASA's Asteroid Initiative," (NASA: $196,908) 2014-2015

## TEACHING, TRAINING, MENTORING

**Arizona State University, School for the Future of Innovation in Society**
PIT 504 Public Engagement Strategies 2021-2022
HSD 590 Independent Study (Ben Gansky) 2022
HSD 593 Applied Project (Jacob Robertson) 2021
FIS 499 Individualized Instruction (Serita Sulzman) 2018
FIS 336 Science and Technology Policy 2017 - 2018
**Participatory Technology Assessment Workshop/Seminar**
ASU Annual Winter School on the Social Studies of Emerging Technologies 2020-2021
ASU Science Outside the Lab 2015-2021
AAAS Science and Technology Policy Fellowship Professional Development 2020, 2022
PIT-UN Public Interest Technology Community Innovation Fellowship 2020
**Mentoring**
Postdoctoral Students
Michael Bernstein, Arizona State University 2016
Graduate Students
Amanda Borth George Mason University 2022-Present
Marianna Milkis-Edwards, Arizona State University 2022-Present
David Morrison, Arizona State University 2021-Present
Lauren Lambert, Arizona State University 2020-2022
Melissa Smallwood, Arizona State University 2020-2021
John P. Nelson, Arizona State University 2018-2019
Sarah Geren, Arizona State University 2017

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| Nicholas Weller, Arizona State University | 2015-2019 |
| Science Policy Interns | |
| Brandon Stoll, George Washington University | 2022 |
| Alison Ross, Yale University | 2021 |
| Adit Mahmood, Virginia Tech | 2021 |
| Ekedi Foster Keys, Boston University | 2020-2021 |
| Avery Barbera, Western Washington University | 2020-2021 |
| Lilian Law, New York University | 2020-2021 |
| Zane Encinas, Arizona State University | 2021 |
| Matthew Long, James Madison University | 2020 |
| Leah Kaplan, University of Arizona | 2018 |
| Rajeev Chhetri, Arizona State University | 2018 |
| Sonia Dermer, William and Mary | 2018 |
| Sean Gunther, Pomona College | 2017 |
| Legislative Policy Intern | |
| Tyler Hughes, Arizona State University | 2021 |

## PUBLICATIONS

### Journal Articles/Book Chapters

**Farooque, M**., ed. 2022. The Rightful Place of Science: New Tools for Science Policy, vol. II. Tempe, AZ: Consortium for Science, Policy & Outcomes.

Sittenfeld, D., **Farooque, M.,** Helmuth, B., Benson, S., Hostetler, E., Choi, F., Weller, N., Nickerson, C., Todd, K. and Cavalier, D. (2022). "Citizen Science, Civics, and Resilient Communities: Informing Community Resilience Policies Through Local Knowledge, Community Values, and Community-Generated Data." *Citizen Science: Theory and Practice*, 7(1): 33.

Jennifer Richter, Michael J. Bernstein, **Mahmud Farooque**, (2022). The process to find a process for governance: Nuclear waste management and consent-based siting in the United States. *Energy Research & Social Science*, Volume 87, 102473, ISSN 2214-6296.

Kaplan, L. R., **Farooque, M**., Sarewitz, D., & Tomblin, D. (2021). Designing Participatory Technology Assessments: A Reflexive Method for Advancing the Public Role in Science Policy Decision-making. Technological Forecasting & Social Change, 171(C), 120974–. https://doi.org/10.1016/j.techfore.2021.120974

Karen L. Akerlof, Taryn Bromser-Kloeden, Kristin Timm, Katherine E. Rowan, James L. Olds, Chris Clarke, Elizabeth Ban Rohring, Emily Therese Cloyd, K. Curran, Elizabeth C. Duesterhoeft, **Mahmud Farooque**, Erica Goldman, Lisa Gring-Pemble, Stephanie E. Hampton, Sojung Claire Kim, John Kotcher, Darren Milligan, Carlos L. Muñoz Brenes, Cynthia Sandoval, Dann Sklarew, Cynthia Smith, Elizabeth Suhay, David Tomblin, Crystal Upperman, Andrew Wingfield & Xiaoquan Zhao, (2021). "Categorizing Professionals' Perspectives on Environmental Communication with Implications for Graduate Education." *Environmental Communication*.

John S. Dryzek, Dianne Nicol, Simon Niemeyer, Sonya Pemberton, Nicole Curato, André Bächtiger, Philip Batterham, Bjørn Bedsted, Simon Burall, Michael Burgess, Gaetan Burgio, Yurij Castelfranchi, Hervé Chneiweiss, George Church, Merlin Crossley, Jantina de Vries, **Mahmud Farooque**, Marit Hammond, Baogang He, Ricardo Mendonça, Jennifer Merchant, Anna Middleton, John E. J. Rasko, Ine Van Hoyweghen, Antoine Vergne 2020. "Global citizen deliberation on genome editing." *Science*, 369(6510): 1435-1437.

Cockerill, K., Glynn, P., Chabay, I., **Farooque, M**., Hämäläinen, R., Miyamoto, B., and McKay, P. "Records of engagement and decision making for environmental and socio-ecological challenges." *EURO Journal on Decision Processes* (2019). https://doi.org/10.1007/s40070-019-00104-6

Bednarek A., Wyborn C., Cvitanovic C., Meyer R., Colvin R., Addison P.F.E., Close S.L., Curran K., Farooque M., Goldman E., Hart D., Mannix H., McGreavy B., Parris A., Posner S., Robinson C., Ryan M., and P. Leith (2018). Boundary-spanning at the science-policy interface: The practitioners' perspectives. *Sustainability Science*, 13: 1175.

Tomblin, David, Zachary Pirtle, **Mahmud Farooque**, David Sittenfeld, Erin Mahoney, Rick Worthington, Gretchen Gano, Michele Gates, Jason Kessler, Amy Kaminski, Jason Lloyd, and David Guston (2017). Integrating Public

Deliberation into Engineering Systems: Participatory Technology Assessment of NASA's Asteroid Initiative. *Astropolitics 15:2*. Pp. 141-166.

Hoffman, Catherine, Caren Cooper, Eric Kennedy, **Mahmud Farooque** and Darlene Cavalier, 2016. "SciStarter 2.0: A Digital Platform to Foster and Study Sustained Engagement in Citizen Science," in Ceccaroni and Piera (Eds.) *Analyzing the Role of Citizen Science in Modern Research*, Hershey, PA: IGI Global.

**Farooque, Mahmud**. 2004. *The evolution of technological forecasting and contemporary policy systems, 1935–1999*. PhD Dissertation. School of Public Policy, George Mason University, Fairfax, Virginia.

Porter, Alan, Vary Coates, **Mahmud Farooque**, Richard Klavans, Hal Linstone, Koty Lapid and Carl Pistorius, "The Future of Technological Forecasting," *Technological Forecasting and Social Change*, Vol. 67, Spring 2001, pp. 1-17.

Quddus, Munir, Michael Goldsby and **Mahmud Farooque**, "Trust: The Social Virtues and the Creation of Prosperity—A Review Article," *Eastern Economic Journal*, Vol. 26, No. 1, Winter 2000, pp. 87-98.

**Reports/Magazine Articles**

**Farooque, Mahmud**, and Jason L. Kessler. "How Would You Defend the Planet From Asteroids?" *Issues in Science and Technology* 39, no. 2 (Winter 2023): 74–80.

Weller, Nicholas, Govani M. and **Farooque M**. Public Value Evidence for Public Value Outcomes: Integrating Public Values into Federal Policymaking. *Day One Project* (October 2022).

Quach, Kimberly, Dorit Barlevy, **Mahmud Farooque**, Lauren Lambert, Haley Manley, Janine Myszka, Christopher Scott, Cynthia Selin and David Tomblin. "Framing Our Biological Futures: Preliminary Results from Human Gene Editing Public Forums." Consortium for Science, Policy & Outcomes (March 2022)

Weller, Nicholas, Michelle Sullivan Govani, and **Mahmud Farooque**. "Need Public Policy for Human Gene Editing, Heatwaves, or Asteroids? Try Thinking Like a Citizen." *Issues in Science and Technology* 37, no. 3 (Spring 2021): 12–15.

Nicholas Weller, Michelle Sullivan Govani, and **Mahmud Farooque**. "Supporting Federal Decision Making through Participatory Technology Assessment." *Day One Project* (December 2020).

Weller, Nicholas, **Mahmud Farooque**, Michelle Sullivan Govani, and Leah Kaplan. "Blinded by the Frontier." *Issues in Science and Technology* (July 17, 2020).

Kaplan, Leah, John Nelson, David Tomblin, Mahmud Farooque, Jason Lloyd, Mark Neff, Bjørn Bedsted, and Dan Sarewitz. "Cooling a Warming Planet? Public Forums on Climate Intervention Research." Washington, DC: ASU Consortium for Science, Policy & Outcomes (November 2019).

Farooque, M., S. Kathleen Barnhill-Dilling, Julie Shapiro, and Jason Delborne. "Exploring Stakeholder Perspectives on the Development of a Gene Drive Mouse for Biodiversity Protection on Islands" Workshop Report. June 2019.

Farooque, M., Kaplan, L., Quash, K., and Lloyd, J. "Boundary Practitioners Workshop Report – Missions Control for Earth." Washington, DC: ASU Consortium for Science, Policy & Outcomes (February 2019).

Jason Delborne, Julie Shapiro, Mahmud Farooque, Tyler Ford, Dalton George, and Sonia Dermer. "Exploring Stakeholder Perspectives on the Development of a Gene Drive Mouse for Biodiversity Protection on Islands." Summary Report of Stakeholder Interviews. February 2019.

Lloyd, Jay, David Tomblin, Mahmud Farooque, Kimberly Quach and Daniel Sarewitz (2018). "Driverless Vehicles: What Priorities Should be at the Top of Our List." *Issues Advisory*, Dayton, OH: National Issues Forum Institute.

Delborne, J., Farooque, M., and Shapiro, J. (2017). *Genetically Engineered Algae Public Engagement Strategies: A Stakeholder Workshop Report.* Expert and Citizen Assessment of Science and Technology (ECAST) Network.

Tomblin, D., R. Worthington, G. Gano, M. Farooque, D. Sittenfeld, and J. Lloyd, 2015. *Informing NASA's Asteroid Initiative: A Citizen's Forum.* Washington DC: Expert and Citizen Assessment of Science and Technology.

Beier P, D. Behar, L. Hansen, L. Helbrecht, J. Arnold, C. Duke, M. Farooque, P. Frumhoff, L. Irwin, J. Sullivan, J. Williams, 2015. *Guiding principles and recommended practices for co-producing actionable science: a How-To Guide for DOI Climate Science Centers and the National Climate Change and Wildlife Science Center*. Washington, DC: Advisory Committee on Climate Change and Natural Resource Science.

Worthington, Richard, Darlene Cavalier, Mahmud Farooque, Gretchen Gano, Henry Geddes, Steven Sander, David Sittenfeld and David Tomblin, 2012. *Technology Assessment and Public Participation: From TA to pTA*. Washington, DC: Expert and Citizen Assessment of Science and Technology.

Farooque, Mahmud, Veronica Hendrickson and My Linh Nguyen (Eds.), *Tri-State Trends*, New York: New York Academy of Sciences, July 2001-Aug 2002.

Schintler, Laurie and Mahmud Farooque, *Partners in Motion and Traffic Congestion in the Washington, D.C. Metropolitan Area*, Washington DC: Federal Highway Administration, Virginia Department of Transportation, July 2001.

## PRESENTATIONS

"Negative Emissions Technologies and Pathways: Carbon Dioxide Removal & Participatory Technology Assessment," *Resources For the Future: Energy Insights 2022*, Washington, DC, December 8, 2022

"A Reflexive Method for Advancing the public role in Science and Technology," *GEO-SBE Workgroup on Climate Intervention Research*, National Science Foundation, September 21 , 2022, Online.

"Making Useful Evidence: Lessons from Diverse Fields: Participatory Technology Assessment for Collection and Integration of Public Values into Science and Technology Decision-Making," *Transforming Evidence Network Conference*, Miami, FL, October 5, 2022.

"Participatory Technology Assessment for Public Value Science," *International Conference on the Science of Science and Innovation,* National Academy of Science, Engineering and Mathematics, Washington, DC, June 7, 2022.

"The Complexity of Threats to Civic Dialogue about Science," *Re-Imagining Science Communication in the COVID Era and Beyond: The 5th National Academies Science Communication Colloquium*, National Academy of Science, Engineering and Mathematics, Washington, DC, June 1, 2022.

"A Reflexive Method for Advancing the public role in Science and Technology," *Committee on Emerging Science, Technology and Innovation: Virtual Workshop*, National Academy of Medicine, April 14, 2022, Online.

"Science for the Public Good: Who is Benefiting?" *Baker Institute for Science & Technology Policy Seminar*, Rice University, September 22, 2021, Online.

"Public Engagement: Techniques for Bi-Directional Conversations with the Public about M-CELS," *Workshop on Multicellular Engineered Living Systems (M-CELS) 2021*, June 1st - 3rd, 2021, Online.

"A Research Infrastructure for Maximizing Public Value of Science," *Testimony before the U.S. House of Representatives, Committee on Science, Space, and Technology, Subcommittee on Research and Technology Hearing on: National Science Foundation: Advancing Research for the Future of U.S. Innovation Part II*, May 6, 2021, Online.

"Best practices and lessons learned for the co-production of scientific products used by stakeholders and decision-makers," *Ecological Forecasting Initiative Co-production and Actionable Science Model*, May 4, 2021, Online.

"Towards a 21st Century Participatory Model for Citizen Engagement for Environmental Protection in Bangladesh," *BAPA-BEN 4th International Conference on Bangladesh Environment*, December 27, 2020, Online.

"Citizen Participation in Global Governance of the Internet," *IEEE ISTAS 2020*, November 14, 2020, Online.

"Public Interest Technology Community Innovation Fellowship (PITCIF)," Collaborating and Learning as a PIT Educator, *PIT-UN 2020 Convening*, November 13, 2020, Online.

"Public Interest Technology Community Innovation Fellowship: Innovations from Shifting to Virtual Public Dialogue Forums," *ASTC Annual Conference*, October 21, 2020, Online.

"Participatory Technology Assessment," *Online Workshop Public Engagement with Science: Defining and Measuring Success, Panel 5: Demographically Representative Samples*, Michigan State University, September 11, 2020.

"Science Engagement with the Public," *The Endless Frontier—the Next 75 years in Science*, *A symposium on the Occasion of the 75th Anniversary of Vannevar Bush's Science – The Endless Frontier*, National Academy of Science, Engineering and Mathematics, February 26, 2020.

"Navigating Our Automated Mobility Futures: Results from Public Forums in the United States and Abroad," *Issues Affecting Public Acceptance of Automated Vehicles*, Chair's Panel, Standing Committee on Vehicle-Highway Automation, Transportation Research Board (TRB) Annual Meeting, Washington, DC, January 13, 2020.

"Our Driverless Futures: Informing Autonomous Vehicle Design Through Participatory Technology Assessment," *Workshop on Driverless Mobility Worldwide Dialogue: Key Learnings*, Brussels, Belgium, December 9-10, 2019.

"Science and Technology of the People, by the People and for the People," Biotechnology & Ideology Week, Biotechnology Fellowship Program, Cornell Alliance for Science, Ithaca, NY, Friday, October 11, 2019.

"Innovating with the Public – One Deliberation at a Time," Symposium: Interrogating Innovation, Nanyang Technological University, Singapore, August 16, 2019.

"Scalable, Replicable, and Comparable Multi-site Participatory Engagement for Research, Education and Policy," *How should we conduct broad public deliberation?* Hasting Center Meeting 2, Gene Editing and Public Deliberation, Garrison, NY, June 20, 2019

"When Citizen Talk to Experts about Driverless Mobility: Five Lessons from the International Citizen Dialogue," Movin'On Summit, Montreal, Canada, June 6, 2019

"Science and Technology of the People, by the People and for the People," IEEE Standards Association-MIT Media Lab Council on Extended Intelligence meeting, American Academy of Arts and Sciences, Cambridge, MA, Tuesday, May 22, 2019

"Research Agendas of the People, by the People and for the People," 2019 AAAS Science and Technology Policy Forum, Washington, DC, May 2, 2019.

"Citizen Science, Civics, and Resilient Communities: Informing Community Resilience Policies Through Local Knowledge, Community Values, and Citizen-Created Data," AGU Fall Meeting, Washington, DC, December 14, 2018

"Back to Rio: Reinstating the Public in Public Participation in Global Environmental Governance," AGU Fall Meeting, Washington, DC, December 10, 2018

"Working with Unusual Suspects at the Science, Policy, and Community Nexus," AGU Fall Meeting, Washington, DC, December 10, 2018

"Autonomous Vehicles: Keeping the Public in the Driver's Seat," New Tools for Science Policy Breakfast Seminar Series, Arizona State University, Washington, DC, April 2018.

"Advocating for Public Engagement with Science," AAAS Annual Meeting, Austin, TX, February 15, 2018.

"Building community resilience through informed engagement of everyday citizens: Lessons from the U.S," BAPA-BEN Conference on Flood, Waterlogging, and Landslides in Bangladesh –Search for Effective Indigenous Solutions, Dhaka, Bangladesh, January 13, 2018

"Bridging the Expert and Citizen Divide: Integrating Public Deliberation to Inform NASA's Asteroid Initiative," AGU Fall Meeting, New Orleans, LA, December 14, 2017

"Usable Science to Usable Public Values – Participatory Engagement for Policy and Decision-making," Roundtable: Catalyzing Research for Social Impact: Emerging Pathways to Strengthen Knowledge Brokering between Academia and Public Decisionmakers, APPAM Fall Research Conference, Chicago, IL, November 2, 2017.

"Usable Science to Usable Public Values – Participatory Technology Assessment in the U.S. Context," Atlanta Conference on Science and Innovation Policy, Atlanta, GA, October 11, 2017

"World Wide Views on Oceans and Seas: Citizen Participation and SDG14," U.N. Oceans Conference Side Event, Permanent Mission of Germany to the United Nations, New York, NY, June 9, 2017

"Expert and Citizen Assessment of Science and Technology (ECAST)," 2016 NSF Nanoscale Science and Engineering Grantees Conference, Arlington, VA, December 13, 2016.

"Engagement, The Next Frontier: Bridging the gaps between science, policy and citizenship," How Can HPS Contribute to Science Literacy and Policy? Teaching Science through the History & Philosophy of Science, Boston University Interdisciplinary Conference Series, Boston, MA, February 27, 2016.

"Engagement, The Next Frontier: A distributed network approach for public participation in policy and decision-making," US Global Change Research Program, Washington, DC, December 9, 2015.

"From Asteroids to Oceans: Using Public Engagement to Inform Policy Decisions," New Tools for Science Policy Breakfast Seminar Series, Arizona State University, Washington, DC, October 2015.

"Bridging the Democracy Gap: World Wide Views on Climate and Energy." New Tools for Science Policy Breakfast Seminar Series, Arizona State University, Washington, DC, March 2015.

"From Citizen Science to Citizen Forums for Science — A distributed network approach for public participation in policy and decision-making," American Meteorological Society Annual Meeting, Phoenix, AZ, January 2015.

"Bangladesh Spring: Participatory conference and new media to educate and seed youth engagement in environmental preservation," Ecological Society of America 99th Annual Meeting, Sacramento, CA, August 2014.

"Uncertainty is Political," Carbon Monitoring System Applications Policy Speaker Series, NASA Goddard Space Flight Center, Greenbelt, MD, January 2014.

"Science, Policy and Decision-making: Navigating between the experts and the publics," Invited Talk, U.S. Geological Survey, Reston, VA, November 2013.

"Participatory Technology Assessment: Including the Public in Scientific Decision Making," Association of Science and Technology Center Annual Meeting, Columbus, OH, October 2012.

"Science Beyond the Field: A Policy (dis)Orientation," Ecological Society of America 97th Annual Meeting, Portland, OR, August 2012.

"Teaching the Complexities of Decision-Making at the Intersection of Science, Technology and Policy: Science, Policy and Citizenship Program for High School Students," Policy Studies Organization, DuPont Summit, Washington, DC, December 2011.

"Science, Citizen and Engagement: Expert and Citizen Assessment of Science and Technology," Science and Technology in Society—Effective Communication Strategies, West Virginia University, April 2011.

"Dhaka Megacity: From Reactive Government to Anticipatory Governance," BAPA-BEN Special Conference on Urbanization, Traffic Jam and Environment, Dhaka, Bangladesh, January 2011.

## CONSULTING AND ADVISING

**Journal for Technology Assessment in Theory and Practice (TATuP)**, 2021-Present
Member, Editorial Board

**George Mason University**, Fairfax, VA 2021-Present
Member, Advisory council, Institute for a Sustainable Earth

**World Economic Forum**, Strategic Intelligence Unit 2020
Contributor: Map on Civic Participation

**OECD Open and Innovative Governance Division**, Paris, France 2020
Contributor, Report: Innovative Citizen Participation and New Democratic Institutions

**Oregon State University**, Portland, OR 2019-Present
Advisor, NSF Award (#1906998): The Circuit: A Platform for Increasing Access to, Deepening and Researching patterns of Family and Adult Participation in Informal Science

**Museum of Science**, Boston, MA 2018-Present
Advisor, NSF Award (# 1811118): Building Capacity for Co-Created Public Engagement with Science

**IEEE Standards Association & MIT Media Lab**, Cambridge, MA 2018-2020
Member, Council on Extended Intelligence

**Science and Technology Policy Institute (STPI)**, Washington, DC 2018
Member, U.S. Air Force Research Laboratory (AFRL) Science & Technology Futures Expert Panel

**North Carolina State University**, Raleigh, NC 2017-2019
Consultant, Public engagement, DARPA's Genetic Biocontrol of Invasive Rodents (GBIRd) Project

**American Association for the Advancement of Science**, Washington, DC 2011-2013, 2017-2019
Member, Science & Technology Policy Fellowship Selection Committee

**American Geophysical Union**, Washington, DC 2015-2019
Member, Advisory Board, Thriving Earth Exchange

**University of Texas**, Austin, TX 2015-2016
Consultant, NSF Award (# 1549578): Curriculum Development for I-Corps PNP Pilot Program

**U.S. Department of Interior**, Reston, VA 2014-2015
Member, Climate Science Center Federal Advisory Board, Actionable Science Work Group

**Museum of Science**, Boston, MA 2014-2016
Consultant, NSF Award (# 1421179): Multi-Site Public Engagement with Science-Synthetic Biology

**International Social Science Council** (ICSU), Paris, France 2014
Member, Expert Committee, Belmont Forum/Future Earth Trans-disciplinary Training Proposal

## REVIEWS

Journal Article, *Review of Policy Research* 2022
Journal Article, *Environmental Science and Policy* 2021, 2022

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| Journal Article, *Journal of Responsible Innovation* | 2019, 2021, 2022 |
| Funding Proposal, *Alfred P. Sloan Foundation* | 2018, 2021 |
| Funding Proposal, *National Science Foundation* | 2020, 2022 |
| Journal Article, *Journal of Contemporary European Studies* | 2019-2020 |
| Journal Article, *Cogent Social Sciences* | 2019 |
| Journal Article, *Environmental Communication* | 2018 |
| Journal Article, *Science* | 2018 |
| Journal Article, *Sustainability* | 2017 |