

Earth and Environmental Systems Institute  
314 Earth and Engineering Sciences Building  
Penn State University  
University Park, PA 16802-6813

helgeson@psu.edu  
[Google Scholar](#)  
[PhilPapers](#)  
[website](#)

## Casey Helgeson

**research interests** values in science  
climate risk  
philosophy of science  
research co-design

**appointments** **Penn State University**  
Assistant Research Professor, Earth and Environmental Systems Institute 2017–  
Affiliated Faculty, Rock Ethics Institute 2018–  
Affiliate Faculty, Department of Philosophy 2021–  
**French National Centre for Scientific Research (CNRS)**  
Postdoctoral Researcher, GREGHEC joint research laboratory 2016–17  
**London School of Economics and Political Science**  
Postdoctoral Researcher, Centre for Philosophy of Natural and Social Science 2013–16

**education** **University of Wisconsin–Madison**  
PhD, philosophy 2013  
MA, philosophy 2009  
BS, mathematics 1997

**peer-reviewed journal articles** Peng, W., Anenberg, S., Bistline, J., Budolfson, M., Constantino, S. M., Crawford, K., Davis, K., DeCarlo, P., Fawcett, A., Hashimoto, H., **Helgeson, C.**, Huang, X., Iyer, G., Keller, K., Kennard, H., Kennedy, K. M., Laumbach, R., Limaye, V., Mayfield, E., McFarland, J., Meyer, M., Miller, P., Place, A., Roy, N., Schell, C., Scovronick, N., Smith, S. J., Srikrishnan, V., Vorhees, D., and Xie, Y. **2025**. Seizing the policy opportunities for health- and equity-improving energy decisions. *One Earth*. DOI: [10.1016/j.oneear.2024.12.007](https://doi.org/10.1016/j.oneear.2024.12.007).

Pollack, A. B., Santamaria-Aguilar, S., Maduwantha, P., **Helgeson, C.**, Wahl, T., and Keller, K. **2025**. Funding rules that promote equity in climate adaptation outcomes. *PNAS* 122 (2), e2418711121. DOI: [10.1073/pnas.2418711121](https://doi.org/10.1073/pnas.2418711121).

**Helgeson, C.**, Keller, K., Nicholas, R. E., Srikrishnan, V., Cooper, C., Smithwick, E. A. H., and Tuana, N. **2024**. Integrating values to improve the relevance of climate-risk research. *Earth's Future* 12 (10), e2022EF003025. DOI: [10.1029/2022EF003025](https://doi.org/10.1029/2022EF003025).

Pollack, A. B., **Helgeson, C.**, Kousky, C., and Keller, K. **2024**. Developing more useful equity measurements for flood-risk management. *Nature Sustainability* 7, 823–832. DOI: [10.1038/s41893-024-01345-3](https://doi.org/10.1038/s41893-024-01345-3).

Lucash, M. S., Williams, N. G., Srikrishnan, V., Keller, K., Scheller, R. M., **Helgeson, C.**, Nicholas, R. E., and Smithwick, E. A. H. **2023**. Balancing multiple forest management objectives under climate change in central Wisconsin, U.S.A. *Trees, Forests and People* 14 (100460). DOI: [10.1016/j.tfp.2023.100460](https://doi.org/10.1016/j.tfp.2023.100460).

**Helgeson, C.**, Nicholas, R. E., Keller, K., Forest, C. E., and Tuana, N. **2022**. Attention to values helps shape convergence research. *Climatic Change* 170 (17). DOI: [10.1007/s10584-021-03274-y](https://doi.org/10.1007/s10584-021-03274-y).

**Helgeson, C.**, Srikrishnan, V., Keller, K., and Tuana, N. **2021**. Why simpler computer simulation models can be epistemically better for informing decisions. *Philosophy of Science* 88 (2), 213–233. DOI: [10.1086/711501](https://doi.org/10.1086/711501).

- Keller, K., **Helgeson, C.**, and Srikrishnan, V. **2021**. Climate risk management. *Annual Review of Earth and Planetary Sciences* 49 (1), 95–116. DOI: [10.1146/annurev-earth-080320-055847](https://doi.org/10.1146/annurev-earth-080320-055847).
- Helgeson, C.** **2020**. Structuring decisions under deep uncertainty. *Topoi: an international review of philosophy* 39 (2), 257–269. DOI: [10.1007/s11245-018-9584-y](https://doi.org/10.1007/s11245-018-9584-y).
- Helgeson, C.** **2018**. Modus Darwin Reconsidered. *The British Journal for the Philosophy of Science* 69 (1), 193–213. DOI: [10.1093/bjps/axw015](https://doi.org/10.1093/bjps/axw015).
- Helgeson, C.**, Bradley, R., and Hill, B. **2018**. Combining probability with qualitative degree-of-certainty metrics in assessment. *Climatic Change* 149 (3), 517–525. DOI: [10.1007/s10584-018-2247-6](https://doi.org/10.1007/s10584-018-2247-6).
- Bradley, R., **Helgeson, C.**, and Hill, B. **2017**. Climate Change Assessments: Confidence, Probability, and Decision. *Philosophy of Science* 84 (3), 500–522. DOI: [10.1086/692145](https://doi.org/10.1086/692145).
- Guillaume, J. H. A., **Helgeson, C.**, Elsayah, S., Jakeman, A. J., and Kumm, M. **2017**. Toward best practice framing of uncertainty in scientific publications: A review of Water Resources Research abstracts. *Water Resources Research* 53 (8), 6744–6762. DOI: [10.1002/2017wr020609](https://doi.org/10.1002/2017wr020609).
- Helgeson, C.** **2017**. Pattern as observation: Darwin's 'great facts' of geographical distribution. *European Journal for Philosophy of Science* 7 (2), 337–351. DOI: [10.1007/s13194-016-0164-y](https://doi.org/10.1007/s13194-016-0164-y).
- Thompson, E., Frigg, R., and **Helgeson, C.** **2016**. Expert Judgment for Climate Change Adaptation. *Philosophy of Science* 83 (5), 1110–1121. DOI: [10.1086/687942](https://doi.org/10.1086/687942).
- Helgeson, C.** **2015**. There Is No Asymmetry of Identity Assumptions in the Debate over Selection and Individuals. *Philosophy of Science* 82 (1), 21–31. DOI: [10.1086/679114](https://doi.org/10.1086/679114).
- Helgeson, C.** **2013**. The Confirmational Significance of Agreeing Measurements. *Philosophy of Science* 80 (5), 721–732. DOI: [10.1086/673924](https://doi.org/10.1086/673924).
- Helgeson, C.** **2013**. What Selection Can and Cannot Explain: A Reply to Nanay's Critique of Sober. *Philosophy of Science* 80 (1), 155–159. DOI: [10.1086/668880](https://doi.org/10.1086/668880).
- Barrett, M., Clatterbuck, H., Goldsby, M., **Helgeson, C.**, McLoone, B., Pearce, T., Sober, E., Stern, R., and Weinberger, N. **2012**. Puzzles for ZFEL, McShea and Brandon's zero force evolutionary law. *Biology & Philosophy* 27 (5), 723–735. DOI: [10.1007/s10539-012-9321-7](https://doi.org/10.1007/s10539-012-9321-7).

preprints &  
in review

- Cooper, C., **Helgeson, C.**, Troy, C. L. C., Keller, K., and Tuana, N. **preprint**. What do people care about when managing flood risks? A values-informed mental model approach. DOI: [10.31235/osf.io/wkgjp](https://doi.org/10.31235/osf.io/wkgjp).
- Helgeson, C.**, Auermuller, L., Gayle, D. B., Dangendorf, S., Gilmore, E., Keller, K., Kopp, R., Lorenzo-Trueba, J., Oppenheimer, M., Parrish, K., Ramenzoni, V., Tuana, N., and Wahl, T. **preprint**. Exploratory scoping of place-based opportunities for convergence research. DOI: [10.31219/osf.io/z5ue4](https://doi.org/10.31219/osf.io/z5ue4).
- Pollack, A., Auermuller, L., Burleyson, C., Campbell, J. E., Condon, M., Cooper, C., Coronese, M., Dangendorf, S., Doss-Gollin, J., Hegde, P., **Helgeson, C.**, Kopp, R., Kwakkel, J., Leaf, A., Lesk, C., Mankin, J., Nicholas, R. E., Rice, J., Roth, S., Srikrishnan, V., Scheeler, M., Tuana, N., Vernon, C., Zhao, M., and Keller, K. **preprint**. Investing in open and FAIR practices for more usable and equitable climate-risk research. DOI: [10.31219/osf.io/29nhv](https://doi.org/10.31219/osf.io/29nhv).

chapters

- Helgeson, C.**, Parker, W., and Tuana, N. **forthcoming**. "How uncertainty interacts with ethical values in climate change research." In: *Uncertainty in Climate Change Research: An Integrated Approach*. Ed. by L. O. Mearns, C. Forest, H. Fowler, R. Lempert, and R. Wilby. Springer.
- Smithwick, E. A. H., Caldwell, C., Klippel, A., Scheller, R. M., Tuana, N., Bird, R. B., Keller, K., Vickers, D., Lucash, M., Nicholas, R. E., Olson, S., Ruckert, K. L., Oyler, J., **Helgeson, C.**, and Huang, J. **2019**. "Learning About Forest Futures Under Climate Change Through Transdisciplinary Collaboration Across Traditional and Western Knowledge Systems." In: *Collaboration Across Boundaries for Social-Ecological Systems Science: Experiences Around the World*. Ed. by S. G. Perz. Cham: Springer International Publishing, pp. 153–184. DOI:

[10.1007/978-3-030-13827-1\\_5](https://doi.org/10.1007/978-3-030-13827-1_5).

**reports** Iulo, L., Arora, A., Fowler, L., Goldberg, L., **Helgeson, C.**, Keller, K., Nicholas, R. E., Sharma, S., Tebyanian, N., Tuana, N., and Zarekarizi, M. **2020**. *Establishing priorities for Pennsylvania community flood resilience*. Research rep. Penn State Initiative for Resilient Communities. 7 pp. DOI: [10.31235/osf.io/qa4z7](https://doi.org/10.31235/osf.io/qa4z7).

**proceedings** Huang, J., Lucash, M. S., Simpson, M. B., **Helgeson, C.**, and Klippel, A. **2019**. Visualizing Natural Environments from Data in Virtual Reality: Combining Realism and Uncertainty. In: *2019 IEEE Conference on Virtual Reality and 3D User Interfaces (VR)*. IEEE, pp. 1485–1488. DOI: [10.1109/VR.2019.8797996](https://doi.org/10.1109/VR.2019.8797996).

**conferences, workshops** **Helgeson, C.**, Pollack, A., Santamaria-Aguilar, S., Linder-Baptie, Z., Keller, K., and Tuana, N. **Dec. 2024**. “Convergence Research for Coastal Climate Adaptation: A Case Study in Compounding Challenges for Early-Career Researchers”. (poster). American Geophysical Union Fall Meeting. Washington, D.C.

Pollack, A., **Helgeson, C.**, Kousky, C., and Keller, K. **Dec. 2024**. “Developing more useful equity measurements for flood-risk management”. American Geophysical Union Fall Meeting. Washington, D.C.

Pollack, A., Santamaria-Aguilar, S., Gamage, P. M. M., **Helgeson, C.**, Wahl, T., and Keller, K. **Dec. 2024**. “Funding rules that promote equity in climate adaptation outcomes”. (poster). American Geophysical Union Fall Meeting. Washington, D.C.

Huang, X., Peng, W., Wang, P., Shiwang, J., Smith, S., and **Helgeson, C.** **Dec. 2023**. “Effects of model choice and uncertainties on the assessment of pollution and health disparities”. (poster). American Geophysical Union Fall Meeting. San Francisco, CA.

Pollack, A., **Helgeson, C.**, Kousky, C., and Keller, K. **Dec. 2023**. “Transparency on underlying values is needed for useful equity measurements”. (poster). American Geophysical Union Fall Meeting. San Francisco, CA.

Pollack, A., **Helgeson, C.**, Kousky, C., and Keller, K. **Oct. 2023**. “Transparency on underlying values is needed for useful equity measurements”. (poster). MultiSector Dynamics Workshop. Davis, CA.

Pollack, A., **Helgeson, C.**, Kousky, C., and Keller, K. **Oct. 2023**. “Transparency on underlying values is needed for useful equity measurements”. (poster). Society of Decision Making Under Deep Uncertainty Annual Meeting. Delft, NL.

**Helgeson, C.** **Sept. 2023**. “Climate adaptation and public philosophy”. (panelist). Public Philosophy Network Annual Conference. Santa Cruz, CA.

Cooper, C., **Helgeson, C.**, Keller, K., and Tuana, N. **Dec. 2021**. “What does it take for flood risk analysis to reflect homeowner values?” (poster). American Geophysical Union Fall Meeting. New Orleans, LA.

**Helgeson, C.**, Nicholas, R. E., Keller, K., Forest, C. E., and Tuana, N. **June 2019**. “Assessment of a multi-institution, multi-discipline research network”. (poster). Sustainability Research Networks Awardees Conference. Alexandria, VA: National Science Foundation.

**Helgeson, C.**, Srikrishnan, V., Keller, K., and Tuana, N. **Nov. 2018**. “Model simplicity where scientific models inform risk management”. (poster). Philosophy of Science Association Biennial Meeting. Seattle, WA.

**Helgeson, C.** and Hill, B. **May 2017**. “A comparison of approaches to deep uncertainty: Decision theory and decision support”. Coping with Uncertainty: Normative Approaches, Current Practice Workshop. Paris, France: École Normale Supérieure.

**Helgeson, C.** **Nov. 2016**. “Framing decisions under deep uncertainty”. Philosophy of Science Association Biennial Meeting. Atlanta, GA.

- Helgeson, C. Nov. 2016.** “Two pathways for combining modeling and decision support in climate change adaptation”. Society for Decision Making under Deep Uncertainty Annual Meeting. Washington, D.C.
- Helgeson, C. Oct. 2016.** “Framing decisions under deep uncertainty”. New Trends in Rational Choice Theory Conference. Munich, Germany: LMU Munich.
- Helgeson, C. Oct. 2015.** “Better integrating theory and practice in deep uncertainty decision science”. Society for Decision Making Under Deep Uncertainty Annual Meeting. Delft, Netherlands.
- Helgeson, C. Aug. 2015.** “Likelihood and confidence in the IPCC’s uncertainty framework”. Congress of Logic, Methodology and Philosophy of Science. Helsinki, Finland.
- Helgeson, C. July 2015.** “Low confidence in extreme probabilities”. British Society for the Philosophy of Science Annual Meeting. Manchester, UK.
- Helgeson, C. June 2015.** “Decision and climate change assessments”. Workshop on Decision Making under Severe Uncertainty. London, UK: London School of Economics.
- Helgeson, C., Bradley, R., and Hill, B. May 2015.** “Decision and climate change assessments”. Workshop on Uncertainty in Climate Science and its Impact on Decision-making. Paris, France: Université Paris-Sorbonne, Paris IV.
- Helgeson, C., Bradley, R., and Hill, B. Mar. 2015.** “Decision and climate change assessments”. (poster). Understanding Uncertainty in Environmental Modelling Workshop. London, UK: London School of Economics, Centre for the Analysis of Time Series.
- Helgeson, C. Mar. 2014.** “Modus Darwin reconsidered”. Philosophy of Biology in the UK Workshop. Cambridge, UK: Cambridge University.
- Helgeson, C. July 2013.** “Modus Darwin reconsidered”. International Society for the History, Philosophy, and Social Studies of Biology Biennial Meeting. Montpellier, France.
- Helgeson, C. Mar. 2013.** “Modus Darwin reconsidered”. American Philosophical Association Pacific Division Annual Meeting. San Francisco, CA.
- Helgeson, C. Nov. 2012.** “The confirmational significance of agreeing measurements”. Philosophy of Science Association Biennial Meeting. San Diego, CA.
- Helgeson, C. July 2011.** “Why taxonomize hierarchically?” International Society for the History, Philosophy, and Social Studies of Biology Biennial Meeting. Salt Lake City, UT.
- Helgeson, C. Apr. 2009.** “Darwin’s biogeographical evidence”. Celebration of Darwin – A Conference on Darwin’s *Origin*. Blacksburg, VA.

- invited talks** Department of River-Coastal Science and Engineering, Tulane University. **Nov. 2024.** “Exploratory scoping of place-based opportunities for convergence research”. New Orleans, LA. Megalopolitan Coastal Transformation Hub Annual Meeting. **May 2024.** Panel on Co-Production: Challenges, Opportunities, and What We Have Learned. Camden, NJ.
- NSF Sight Visit for Megalopolitan Coastal Transformation Hub. **May 2024.** “Research and Intellectual Merit: Transdisciplinary research design”. Camden, NJ.
- Climate Change Seminar Series, Cornell University. **Mar. 2024.** “The place of values in climate-risk research”. Ithaca, NY. (This talk is cross-listed below under *guest lectures* because it was both a [university-wide seminar](#) and a required lecture for an undergraduate course.)
- NSF Coastlines and People Cross-Hub Seminar Series. **Nov. 2023.** “Successes and struggles on the path to convergence research”. (with A. Pollack). National Science Foundation. (virtual).
- Paterno Fellows Program Lecture Series, Penn State. **Nov. 2023.** “The place of human values in climate-risk research”. State College, PA.
- Penn State Climate Solutions Symposium. **May 2023.** “Stakeholder values in climate risk research”. Panel on Change & Risk: Compound Hazards, Integrated Impacts. State College, PA.

Irving Institute for Energy and Society, Dartmouth College. **Apr. 2023**. “Improving convergence science through managing values”. Hanover, NH.

Megalopolitan Coastal Transformation Hub Annual Meeting. **May 2022**. “Decision analyses as boundary objects to link stakeholders, academic researchers, and decision-makers”. (with K. Keller). Rutgers University. (virtual).

Collaborative Stakeholder Advisory Panel Quarterly Meeting, Megalopolitan Coastal Transformation Hub. **Apr. 2022**. “A process for choosing research problems and partner communities”. Rutgers University. (virtual).

External Advisory Board Semiannual Meeting, Megalopolitan Coastal Transformation Hub. **Apr. 2022**. “A process for choosing research problems and partner communities”. (with K. Keller). Rutgers University. (virtual).

Megalopolitan Coastal Transformation Hub Seminar Series. **Mar. 2022**. “How might decision analyses help communities to manage coastal climate risk?” (with K. Keller). Rutgers University. (virtual).

Megalopolitan Coastal Transformation Hub Seminar Series. **Nov. 2021**. “Values-informed mental models”. (with N. Tuana and K. Keller). Rutgers University. (virtual).

Department of Philosophy, Durham University. **Mar. 2021**. “Why simpler computer simulation models can be epistemically better for informing decisions”. Durham, UK. (virtual).

Susquehanna River Basin Commission. **Oct. 2020**. “Flood resilience in riverine communities: Understanding risk and facilitating values-informed decision making”. (with L. Fowler, L. Iulo, N. Tebyanian, K. Keller, S. Sharma, and S. Leininger). (virtual).

Department of Philosophy, University of South Carolina. **Feb. 2020**. “Why simpler computer simulation models can be epistemically better for informing decisions”. Columbia, SC.

Society for Decision Making under Deep Uncertainty Annual Meeting. **Nov. 2019**. “Where are the values in your analysis?” Plenary session. Delft, NL.

Susquehanna River Symposium. **Oct. 2019**. “Penn State Initiative for Resilient Communities: A pilot to develop community-based solutions to riverine flooding”. Keynote address. (with L. Iulo and R. Nicholas). Lewisburg, PA: Bucknell University.

NSF Sustainability Research Networks Awardees Conference. **June 2019**. “Value preferences and scientific knowledge”. Panel on Social Science Research and Policy Engagement. Alexandria, VA: National Science Foundation.

Rock Ethics Institute Seminar Series, Penn State. **Mar. 2018**. “Responsible framing of uncertainties in scientific publications”. State College, PA.

Center for Climate Risk Management Seminar Series, Penn State. **Jan. 2018**. “Value judgements within scientific practice”. State College, PA.

Models to Decisions: Decision Making Under Uncertainty Annual Conference. **July 2017**. “Informing decisions with models: Contributions from philosophy”. Exeter, UK.

Institute of History and Philosophy of Sciences and Technology, Université Paris 1 Panthéon-Sorbonne – CNRS. **Nov. 2016**. “Decision and climate change assessments”. Paris, FR.

Evidence Amalgamation Workshop, Durham University. **Nov. 2015**. “Treatment of uncertainties by the Intergovernmental Panel on Climate Change”. Durham, UK.

Evidence and Expertise Workshop, University of Helsinki. **Oct. 2015**. “Expert judgment for climate change adaptation planning”. Helsinki, FL.

Managing Severe Uncertainty Seminar Series, LSE. **May 2015**. “Expert judgment for climate change adaptation planning”. London, UK.

Managing Severe Uncertainty Seminar Series, LSE. **Nov. 2014**. “Climate change uncertainties and expert elicitation”. London, UK.

Centre for Philosophy of Natural and Social Science, LSE. **Jan. 2013**. “The confirmational significance of agreeing measurements”. London, UK.

Department of Philosophy, Washington University in St. Louis. **Dec. 2012.** “Pattern as observation: Darwin’s geographical distribution argument”. St. Louis, MO.

Department of Philosophy, University of Wisconsin–Madison. **Nov. 2012.** “Pattern as observation: Darwin’s geographical distribution argument”. Madison, WI.

Center for Logic and Philosophy of Science, Tilburg University. **Oct. 2010.** “Darwin’s biogeographical evidence”. Tilburg, NL.

#### teaching

##### **Penn State**

GEOSCI 597 – Climatic Change: Past, Present, and Possible Futures. Primary Instructor. Fall 2021.

PHIL 110 – Introduction to Philosophy of Science. Primary Instructor. Fall 2019.

##### **London School of Economics**

PH 404/213 – Scientific Revolutions. Primary Instructor. Fall 2014.

##### **University of Wisconsin–Madison**

PHILOS 210 – Reason in Communication. Primary Instructor. Fall 2009.

PHILOS 101 – Introduction to Philosophy. Teaching Assistant. Fall 2006.

PHILOS 210 – Reason in Communication. Teaching Assistant. Spring 2006.

PHILOS 211 – Elementary Logic. Teaching Assistant. Fall 2005.

##### **Guest lectures**

BEE 2000 – Perspectives on the Climate Change Challenge (Cornell University) Spring 2024.

ENGS 172 – Climate Change and Engineering. ×2 (Dartmouth College) Spring 2024.

ENGS 7.02 – Climate Change. ×2 (Dartmouth College) Spring 2024.

34:970:631 – Communicating Science with Decision Makers. (Rutgers University) Spring 2024.

34:970:631 – Communicating Science with Decision Makers. (Rutgers University) Spring 2022.

GEOSC 450 – Risk Analysis in the Earth Sciences. (Penn State) Fall 2020.

EARTH 400 – Earth Science and Policy. (Penn State) Spring 2020.

##### **Other teaching**

Instructor. Climate Risk Management Summer Fest. (Dartmouth College) Summer 2023.

Instructor / Supervisor. Summer Research Experience for Undergraduates Program. (Sustainable Development Institute, College of Menominee Nation.) Summer 2018.

##### **Secondary School**

Mathematics Teacher. Britannica International School. Budapest, Hungary. 2001–2003.

#### grants and contracts

Co-Principal Investigator, Penn State Subaward of the *Megalopolitan Coastal Transformation Hub*. PI: Robert Kopp. NSF, \$981,900, (total: \$19,900,000). 2021–2026.

Principal Investigator, *Climate and Sustainability Ethics Initiative*. Rock Ethics Institute (Penn State), \$75,500 (cumulative). 2019–2025.

#### projects and networks

*Megalopolitan Coastal Transformation Hub*. Team Co-Lead. PI: Robert Kopp. NSF. 2021–2026.

*Penn State Initiative for Resilient Communities*. Participant. PI: Lisa Iulo. Office of the Provost (Penn State). 2019–2022.

*Visualizing Forest Futures*. Participant. PI: Erica Smithwick. NSF. 2018–2021.

*Network for Sustainable Climate Risk Management*. Participant. PI: Klaus Keller. NSF. 2012–2017.

*Decision-Making & Belief Change Under Severe Uncertainty: A Confidence-Based Approach*. Participant. PI: Brian Hill. National Research Agency (France). 2015–2018.

*Managing Severe Uncertainty*. Participant. PI: Richard Bradley. Arts and Humanities Research Council (UK). 2013–2016.

- professional service**
- Session Chair. Philosophy of Science Association Biennial Meeting. New Orleans, LA. Nov. 2024.
  - Co-Convenor & Session Chair. Session: Climate Adaptation and Public Philosophy. Public Philosophy Network Annual Conference. Santa Cruz, CA. Sep. 2023.
  - Co-Organizer. Workshop: Improving State-level Energy Decisions to Address Air Quality, Health, and Equity Goals. Washington, D.C. Sep. 2023.
  - Co-Organizer. Climate Risk Management Summer Fest. Dartmouth College. Aug. 2023.
  - Session Chair. ×2 Philosophy of Science Association Biennial Meeting. Pittsburgh, PA. Nov. 2022.
  - Lead Organizer & Moderator. Science and Values in Climate Risk Management Webinar Series. Center for Climate Risk Management (Penn State). 2019–2020.
  - Co-Convenor & Session Chair. Session: Incorporating Values in Modeling and Decision Analyses. Society for Decision Making under Deep Uncertainty Annual Meeting. Delft, NL. Nov. 2019.
  - Guest Editor. *The Reasoner*, Volume 11, Number 7. July, 2017.
  - Lead Organizer. Coping with Severe Uncertainty Workshop. HEC Paris. May 2017.
  - Session Chair. Philosophy of Biology at Madison (POB@M) Workshop. UW–Madison. May 2016.
  - Lead Organizer. Decision Making under Severe Uncertainty Workshop. LSE. June 2015.
  - Lead Organizer. Managing Severe Uncertainty Seminar Series. LSE. 2013–2016
  - Organizing Committee. Philosophy of Biology at Madison Workshop. UW–Madison. June 2012.
  - Organizing Committee. Philosophy of Biology at Madison Workshop. UW–Madison. May 2010.
  - Organizing Committee. Formal Epistemology Workshop. UW–Madison. May 2008.
- institutional service**
- Committee Member. Advisory Committee to the Director of the Earth and Environmental Systems Institute (Penn State). 2020–present.
  - Committee Member. Rock Ethics Institute Steering Committee (Penn State). 2019–present.
  - Committee Member. Committee implementing the Good Practice Scheme of the Society for Women in Philosophy. Department of Philosophy, Logic, and Scientific Method (LSE). 2014–2015.
- additional education**
- Summer School on Sustainable Climate Risk Management, Penn State. Summer 2017.
  - Advanced Study Summer Colloquium, National Center for Atmospheric Research. Summer 2014.
  - Complex Systems Summer School, Santa Fe Institute. Summer 2009.
- fellowships and awards**
- Marcus and Blanche Singer Graduate Fellowship (UW–Madison). 2012.
  - Holtz Center for Science and Technology Studies (UW–Madison) Travel Grant. 2011
  - Visiting Fellowship, Tilburg Center for Logic and Philosophy of Science. Fall 2010.
  - UW–Madison Graduate School Travel Grant. 2009.
  - Pittsburgh Center for Philosophy of Science Travel Grant. 2009
  - Pittsburgh Center for Philosophy of Science Travel Grant. 2007.
  - National Science Foundation Graduate Research Fellowship. 2007.