

# Jason Borenstein, Ph.D.

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Georgia Institute of Technology  
School of Public Policy and Office of Graduate Education  
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## EDUCATION

University of Miami, Coral Gables, FL  
**Graduate School of Arts and Sciences**  
Doctorate in Philosophy  
Master of Arts, Philosophy

Emory University, Atlanta, GA  
**College of Arts and Sciences**  
Bachelor of Science, Biology  
Bachelor of Arts, Philosophy

## AREAS OF SPECIALIZATION

Engineering Ethics, Artificial Intelligence & Robot Ethics, Research Ethics/Responsible Conduct of Research, and Bioethics

## PROFESSIONAL EXPERIENCE

National Science Foundation (NSF) March 2023-present  
Directorate for Social, Behavioral, and Economic Sciences  
**Program Director, Ethical and Responsible Research (ER2) Program**  
Responsibilities include coordinating grant reviews and administering grant awards within the NSF ER2 program.

Georgia Institute of Technology, Atlanta, GA  
School of Public Policy and Office of Graduate Education  
**Principal Academic Professional / Director of Graduate Research Ethics Programs** July 2017-present  
**Interim Research Integrity Officer** June 2021-March 2023  
**Senior Academic Professional / Director of Graduate Research Ethics Programs** July 2011-June 2017  
**Academic Professional / Director of Graduate Research Ethics Programs** July 2006-June 2011  
Responsibilities include instructing ethics and responsible conduct of research courses, and overseeing research ethics policies for doctoral students and for master's thesis students.

Georgia Institute of Technology, Atlanta, GA August 2001-May 2002 & August 2003-June 2006  
School of Public Policy  
**Visiting Assistant Professor**  
Responsibilities included instructing undergraduate courses such as *Philosophy of Science, Science, Technology, & Human Values*, and *Science & Values in the Policy Process*.

Georgia State University, Atlanta, GA August 2002-June 2003  
Department of Philosophy  
**Visiting Instructor**  
Responsibilities included instructing undergraduate courses such as *Critical Thinking* and *Mortal Questions*.

The National Academies, Washington, DC Summer 2001  
**Summer Intern**  
Awarded a *Christine Mirzayan Internship* within the Science, Technology, and Law Program. Responsibilities included working on a project examining the connections between scientific research and litigation.

University of Miami, Coral Gables, FL August 2000-May 2001  
Department of Philosophy  
**Lecturer**  
Responsibilities included instructing two sections of *Introduction to Philosophy* and one section of *Contemporary Moral Issues* during the fall and spring semesters.

American Association for the Advancement of Science, Washington, DC Summer 2000

**Summer Intern**

Unpaid intern for the Scientific Freedom, Responsibility and Law Program. Responsibilities included designing Web pages for a behavioral genetics project, reviewing manuscripts for a report entitled "Human Inheritable Genetic Modifications," and performing research for a conference on legal issues relating to scientific misconduct.

University of Miami, Coral Gables, FL August 1997-May 2000

Department of Philosophy

**Graduate Student Lecturer**

Responsibilities included instructing one undergraduate philosophy course each semester for six semesters; in total, three sections of *Introduction to Philosophy* and three sections of *Contemporary Moral Issues*.

Clayton State College and University, Morrow, GA Summer 1998

**Part-time Faculty**

Instructed *Logic and Critical Thinking*, an undergraduate humanities course.

## GRANT ACTIVITIES

### (I) AS PRINCIPAL INVESTIGATOR OR CO-PRINCIPAL INVESTIGATOR

*National Science Foundation: Ethical & Responsible Research (ER2) Program* Sept. 2021-December 2022

(Award Number: 2124745; Award Amount: \$398,288)

Principal Investigator on a grant awarded to Georgia Tech. The project title is "Broadening Participation in Computing Ethics Curriculum Development."

*National Science Foundation: Smart & Autonomous Systems Program* Feb. 2019-December 2022

(Award Number: 1848974; Award Amount: \$500,000)

Co-Principal Investigator on a grant supervised by PI Ronald Arkin (Georgia Tech). The project title is "Do the Right Thing: Competing Ethical Frameworks Mediated by Moral Emotions in Human-Robot Interaction." The project involves a collaboration with PI Alan Wagner at Penn State University (Award Number: 1849068).

*Mozilla Foundation: Responsible Computer Science Challenge* May 2019-October 2022

(Award Amount: \$150,000)

Co-Principal Investigator on a grant supervised by PI Ellen Zegura (Georgia Tech). The project title is "Rewiring the Computer Science Mindset."

*Atlanta Global Research and Education Collaborative (AGREC)* Sept.-November 2022

(Award Amount: \$15,000)

Co-Principal Investigator on a grant supervised by PI Paul Wolpe (Emory University). The project title is "Project Simuvaction, a type of 'Model AI' on Artificial Intelligence (AI) and Health Disparities on a global stage."

*National Science Foundation: Cultivating Cultures of Ethical STEM (CCE-STEM) Program* Sept. 2016-August 2022

(Award Number: 1635554; Award Amount: \$599,720)

Principal Investigator starting in May 2021; Co-PI from Sept. 2016-May 2021, Colin Potts was the project's original PI (Georgia Tech). The project title is "Institutional Transformation: The Role of Service Learning and Community Engagement on the Ethical Development of STEM Students and Campus Culture."

*International Research & Exchanges Board (IREX)* Dec. 2020-August 2021

(Award Amount: \$40,956)

Principal Investigator on a grant funded by the U.S. Department of State through IREX. The project title is "Engineering Ethics and the Iraq Higher Education Partnership Program."

*National Science Foundation: Division of Information & Intelligent Systems* March 2019-February 2021

(Award Number: 1903909; Award Amount: \$100,000)

Co-Principal Investigator on a grant supervised by PI Ayanna Howard (Georgia Tech). The project title is "An Inclusive Workshop to Develop Best Practices and Guidelines for Fairness, Ethics, Accountability, and Transparency in Computer and Information Science and Engineering."

*National Science Foundation: Division of Information & Intelligent Systems* Oct. 2018-February 2020  
(Award Number: 1849101; Award Amount: \$74,529)

Co-Principal Investigator on a grant supervised by PI Ayanna Howard (Georgia Tech). The project title is “EAGER: Pilot Study on Bias and Trust in AI Systems.”

*U.S. Department of Education: FIPSE Program* Sept. 2010-August 2015  
(Award Number: P116S100006; Award Amount: \$399,860)

Co-Principal Investigator on a grant supervised by PI Michael Hoffmann (Georgia Tech). The abbreviated project title is “Promoting Educational and Academic Collaboration between the United States and the Russian Federation.” It originally involved a collaborative partnership with Bauman Moscow State Technical University.

## **(II) OTHER GRANT ACTIVITIES**

*National Science Foundation: AI Institute for Collaborative Assistance and Responsive Interaction for Networked Groups (AI-CARING)* Oct. 2021-December 2022

(Award Number: 2112633; Award Amount: \$19,995,808)

Senior Personnel on a five-year grant awarded to lead PI Sonia Chernova and lead institution Georgia Tech; served as co-leader of ethics and trust research efforts for the AI Institute.

*National Science Foundation: CCE-STEM Program* (Award Number: 1835237) Oct. 2018-December 2021

Advisory board member on a grant supervised by PI Dena Plemmons (University of California-Riverside) along with sponsor Sigma Xi. The project title is “Authors Without Borders.”

*National Institutes of Health: National Center for Advancing Translational Sciences* Sept. 2017-October 2021  
(Award Number: UL1TR002378)

Member of the Regulatory Knowledge & Support Program within the Georgia Clinical & Translational Science Alliance (Georgia CTSA); PI W. Robert Taylor (Emory University), PI Elizabeth O. Ofili (Morehouse School of Medicine), PI Andrés J. García (Georgia Tech), and PI Bradley G. Phillips (University of Georgia).

*National Science Foundation: CCE-STEM Program* (Award Number: 1835232) February 2019-August 2020

Editor for Research Ethics on a grant supervised by PI Rosalyn Berne (National Academy of Engineering). The project title is “Transforming Ethics Education: Connecting STEM Faculty, Research Administrators, and Ethics Education Resources through the Online Ethics Center.”

*National Science Foundation: NSF-EESE Program* (Award Number: 1355547) January 2014-January 2020

Editor for Research Ethics on a grant supervised by PI Rachelle Hollander (National Academy of Engineering). The project title is “Becoming the Online Resource Center for Ethics Education in Engineering and Science.”

*National Institutes of Health: National Center for Advancing Translational Sciences* June 2014-November 2017  
(Award Number: UL1TR000454)

Member of the Ethics & Regulatory section within the Atlanta Clinical and Translational Science Institute (ACTSI); PI David S. Stephens (Emory University).

*National Science Foundation: NSF-EESE Program* (Award Number: 1338449) October 2013-March 2018

Advisory board member on a grant supervised by PI Dena Plemmons (San Diego State University) along with sponsor Sigma Xi. The project title is “Authors Without Borders.”

*National Science Foundation: NSF-EESE Program* (Award Number: 1238368) Sept. 2012-August 2017

Advisory board member on a grant supervised by PI Marsha Matyas (American Physiological Society). The project title is “Building Student Skills in STEM Publication Ethics.”

*National Science Foundation: NSF-EESE Program* (Award Number: 1033111) October 2010-Sept. 2013

Ethics and online education consultant on a grant supervised by PI Karin Ellison (Arizona State University). The project title is “Developing and Assessing Macroethics Modules for the Collaborative Institutional Training Initiative Responsible Conduct of Research Courses.”

*National Science Foundation: NSF-EESE Program* (Award Number: 0832912) January 2009-Dec. 2012

Collaborator on a grant supervised by PI Roberta Berry (Georgia Tech). The project title is “Ethically Contentious Research and Innovation.” The project involved developing a problem-based learning approach for graduate students in science, engineering, and other disciplines.

*Georgia Tech Focused Research Program in Ethics and Technology* 2005-2008  
Collaborator with PI Robert Kirkman and several other Georgia Tech faculty members on a project aimed towards developing a comprehensive plan for teaching ethics across campus.

*Georgia Tech Initiative in Undergraduate Engineering Education* 2004-2006  
Co-principal investigator with Julie Swann and Robert Kirkman. The project is “Improving Ethics Education to Impact Future Leaders.” The project involved developing a series of engineering and ethics case studies.

## PUBLICATIONS

### (I) REFEREED JOURNAL ARTICLES

- Alex J. London, Yosef S. Razin, **Jason Borenstein**, Motahhare Eslami, Russ Perkins, and Paul Robinette. “Ethical Issues in Near-Future Socially Supportive Smart Assistants for Older Adults.” *IEEE Transactions on Technology and Society*, 2023, doi: 10.1109/TTS.2023.3237124.
- Daniel S. Schiff, **Jason Borenstein**, Justin Biddle, and Kelly Laas. “AI Ethics in the Public, Private, and NGO Sectors: A Review of a Global Document Collection.” *IEEE Transactions on Technology and Society*, 2021, Vol. 2, Issue 1, pages 31-42, doi: 10.1109/TTS.2021.3052127.
- Daniel S. Schiff, Emma Logevall, **Jason Borenstein**, Wendy Newstetter, Colin Potts, and Ellen Zegura. “Linking Personal and Professional Social Responsibility Development to Microethics and Macroethics: Observations From Early Undergraduate Education.” *Journal of Engineering Education*, 2021, pages 70–91, <http://dx.doi.org/10.1002/jee.20371>.
- Joseph Herkert, **Jason Borenstein**, and Keith Miller. “The Boeing 737 MAX: Lessons for Engineering Ethics.” *Science and Engineering Ethics*, Vol. 26, 2020, pages 2957-2974, <https://doi.org/10.1007/s11948-020-00252-y>.
- **J. Borenstein**, H. P. Mahajan, A. R. Wagner and A. Howard. “Trust and Pediatric Exoskeletons: A Comparative Study of Clinician and Parental Perspectives.” *IEEE Transactions on Technology and Society*, Vol. 1, No. 2, June 2020, pages 83-88, doi: 10.1109/TTS.2020.2974990.
- **Jason Borenstein**, Joseph Herkert, and Keith Miller. “Self-Driving Cars and Engineering Ethics: The Need for a System Level Analysis.” *Science and Engineering Ethics*, Vol. 25, Issue 2, 2019, pages 383-398.
- Ayanna Howard and **Jason Borenstein**. “The Ugly Truth About Ourselves and Our Robot Creations: The Problem of Bias and Social Inequity.” *Science and Engineering Ethics*, Vol. 24, Issue 5, 2018, pages 1521-1536.
- **Jason Borenstein**, Alan R. Wagner, and Ayanna Howard. “Overtrust of Pediatric Healthcare Robots: A Preliminary Survey of Parent Perspectives.” *IEEE Robotics and Automation Magazine: Special Issue on Sociotechnical Approaches to Robotics Development*, Vol. 25, Issue 1, 2018, pages 46-54.
- **Jason Borenstein**, Joseph Herkert, and Keith Miller. “Self-Driving Cars: Ethical Responsibilities of Design Engineers.” *IEEE Technology and Society Magazine*, Vol. 36, Issue 2, 2017, pages 67-75.
- **Jason Borenstein** and Ron Arkin. “Nudging for Good: Robots and the Ethical Appropriateness of Nurturing Empathy and Charitable Behavior.” *AI & Society*, Vol. 32, Issue 4, 2017, pages 499-507.
- **Jason Borenstein** and Ron Arkin. “Robotic Nudges: The Ethics of Engineering a More Socially Just Human Being.” *Science and Engineering Ethics*, Vol. 22, Issue 1, 2016, pages 31-46.
- **Jason Borenstein** and Adil Shamoo. “Rethinking Authorship in the Era of Collaborative Research.” *Accountability in Research*, Vol. 22, Issue 5, 2015, pages 267-283.
- Yvette Pearson and **Jason Borenstein**. “Creating “Companions” for Children: The Ethics of Designing Esthetic Features for Robots.” *AI & Society*, Vol. 29, Issue 1, 2014, pages 23-31.

- Michael Hoffmann and **Jason Borenstein**. "Understanding Ill-Structured Engineering Ethics Problems Through a Collaborative Learning and Argument Visualization Approach." *Science and Engineering Ethics*, Vol. 20, Issue 1, 2014, pages 261-276.
- Roberta M. Berry, **Jason Borenstein**, and Robert J. Butera. "Contentious Problems in Bioscience and Biotechnology: A Pilot Study of an Approach to Ethics Education." *Science and Engineering Ethics*, Vol. 19, Issue 2, June 2013, pages 653-668.
- Yvette Pearson and **Jason Borenstein**. "The Intervention of Robot Caregivers and the Cultivation of Children's Capability to Play." *Science and Engineering Ethics*, Vol. 19, Issue 1, 2013, pages 123-137.
- **Jason Borenstein** and Keith Miller. "Robots and the Internet: Causes for Concern." *IEEE Technology and Society Magazine*, Vol. 32, Issue 1, 2013, pages 60-65.
- "Robotics, Ethics, and the Environment." *International Journal of Technoethics*, Vol. 3, No. 2, April-June 2012, pages 17-29.
- Gary E. Marchant, Braden Allenby, Ronald Arkin, Edward T. Barrett, **Jason Borenstein**, Lyn M. Gaudet, Orde Kittrie, Patrick Lin, George R. Lucas, Richard O'Meara, and Jared Silberman, "International Governance of Autonomous Military Robots." *Columbia Science and Technology Law Review*, Vol. 12, 2011, pages 272-315.
- "Responsible Authorship in Engineering Fields: An Overview of Current Ethical Challenges." *Science and Engineering Ethics*, Vol. 17, No. 2, 2011, pages 355-364.
- "Robots and the Changing Workforce." *AI & Society*, Vol. 26, No. 1, 2011, pages 87-93.
- **Jason Borenstein** and Yvette Pearson. "Robot Caregivers: Harbingers of Expanded Freedom for All?" *Ethics and Information Technology*, Vol. 12, No. 3, 2010, pages 277-288.
- **Jason Borenstein**, Matthew J. Drake, Robert Kirkman, and Julie L. Swann. "The Engineering and Science Issues Test (ESIT): A Discipline-Specific Approach to Assessing Moral Judgment." *Science and Engineering Ethics*, Vol. 16, No. 2, 2010, pages 387-407.
- "The Wisdom of Caution: Genetic Enhancement and Future Children." *Science and Engineering Ethics*, Vol. 15, No. 4, 2009, pages 517-530.
- Yvette Pearson and **Jason Borenstein**. "Taking Conflicts of Interest Seriously Without Overdoing It: The Promises and Perils of Academic-Industry Partnerships." *Journal of Academic Ethics*, Vol. 6, Issue 3, 2009, pages 229-243.
- "Textbook Stickers: A Reasonable Response to Evolution?" *Science & Education*, Vol. 17, Nos. 8-9, Sept-Oct 2008, pages 999-1010.
- "The Expanding Purview: Institutional Review Boards and the Review of Human Subjects Research." *Accountability in Research*, Vol. 15, Issue 3, July 2008, pages 188-204.
- "Privacy: A Non-Existent Entity." *IEEE Technology & Society Magazine*, Vol. 27, Issue 4, 2008, pages 20-26.
- "The Ethics of Autonomous Military Robots." *Studies in Ethics, Law, and Technology*, Vol. 2, Issue 1, 2008, pages 1-17.
- "Shaping Our Future: The Implications of Genetic Enhancement." *Human Reproduction and Genetic Ethics*, Vol. 13, No. 2, July-August 2007, pages 4-15.
- "DNA in the Legal System: The Benefits Are Clear, the Problems Aren't Always." *Cardozo Public Law, Policy and Ethics Journal*, Vol. 3, Issue 3, 2006, pages 847-867.
- "The Death Penalty: Conceptual and Empirical Issues." *Cardozo Public Law, Policy and Ethics Journal*, Vol. 2, Issue 2, 2004, pages 377-399.

- “The Epistemic Challenge of Expert Testimony.” *International Journal of Politics and Ethics*, Vol. 2, No. 3, 2002, pages 225-42.
- “Authenticating Expertise: Philosophical and Legal Issues.” *International Journal of Applied Philosophy*, Vol. 16, No. 1, 2002, pages 85-102.
- “Re-examining Expert Testimony.” *International Journal of Politics and Ethics*, Vol. 2, No. 1, 2002, pages 19-36.
- “Expertise and Epistemology: Can Laypersons Assess the Claims of Experts?” *Philosophy in the Contemporary World*, Vol. 9, No. 2, Fall 2001-Winter 2002, pages 1-6.
- “An Account of Expertise: Goldman, Polanyi, and Beyond.” *Appraisal*, Vol. 3, No. 4, 2001, pages 147-50.
- “Science, Philosophy, and the Courts.” *St. Thomas Law Review*, Vol. 13, No. 4, 2001, pages 979-1012.

## (II) NON-REFEERED JOURNAL ARTICLES

- **Jason Borenstein**, Frances S. Grodzinsky, Ayanna Howard, Keith Miller, and Marty J. Wolf. “AI Ethics: A Long History and a Recent Burst of Attention.” *Computer*, 54(1): 96-102, 2021. doi: 10.1109/MC.2020.3034950.
- **Jason Borenstein**, Joseph Herkert, and Keith Miller. “Autonomous Vehicles and the Ethical Tension Between Occupant and Non-Occupant Safety.” *Journal of Sociotechnical Critique*, 1(1): 1-14, 2020. <https://doi.org/10.25779/5g55-hw09>.
- **Jason Borenstein** and Ayanna Howard. “Emerging Challenges in AI and the Need for AI Ethics Education.” *AI and Ethics* (published online September 14, 2020). doi: <https://doi.org/10.1007/s43681-020-00002-7>.
- Ayanna Howard and **Jason Borenstein**. “AI, Robots, and Ethics in the Age of COVID-19.” *MIT Sloan Management Review*, May 12, 2020.
- Ayanna Howard and **Jason Borenstein**. “Trust and Bias in Robots.” *American Scientist*, Vol. 107, No. 2, March-April 2019, page 86. doi: 10.1511/2019.107.2.86.
- Daniel Schiff and **Jason Borenstein**. “How Should Clinicians Communicate with Patients About the Roles of Artificially Intelligent Team Members?” *AMA Journal of Ethics*, 21(2):E138-145, 2019. doi: 10.1001/amajethics.2019.138.
- Alan R. Wagner, **Jason Borenstein**, and Ayanna Howard. “Overtrust in the Robotic Age.” *Communications of the ACM*, Vol. 61, No. 9, 2018, pages 22-24.
- Ayanna Howard and **Jason Borenstein**. “Hacking the Human Bias in Robotics.” *ACM Transactions on Human-Robot Interaction*, Vol. 7, No. 1, May 2018.
- Paul Root Wolpe, Karen S. Rommelfanger & the Drafting and Reviewing Delegates of the BEINGS Working Groups. “Ethical Principles for the Use of Human Cellular Biotechnologies.” *Nature Biotechnology*, Vol. 35, 2017, pages 1050-1058.
- **Jason Borenstein** and Carol Henderson. “Reflections on *Daubert*: A Look Back at the Supreme Court’s Decision.” *The Journal of Philosophy, Science & Law*, Vol. 15, May 2015, pages 1-4.
- **Jason Borenstein** and Yvette Pearson. “Companion Robots and the Emotional Development of Children.” *Law, Innovation and Technology*, Vol. 5, Number 2, December 2013, pages 172-189.
- “Work Life in the Robotic Age.” *Communications of the ACM*, No. 7, July 2010.
- “The Endless ‘Controversy:’ Evolution and Its Critics.” *Studies in Ethics, Law, and Technology*, Vol. 3, Issue 2, 2009, pages 1-22.
- “A Review of Tal Golan’s Laws of Men and Laws of Nature - The History of Expert Scientific Testimony in England and America.” *American Journal of Legal History*, Vol. XLVIII, 2006.

- “Bright New World: A Review of Ronald Bailey’s Liberation Biology: The Scientific and Moral Case for the Biotech Revolution.” *Nature Biotechnology*, Vol. 23, No. 11, November 2005.
- “Meaningful Speech.” *Web Journal of Current Legal Issues*, Vol. 2, 2005.

### (III) BOOKS

- *RCR for Engineering: An Introduction to Ethics and Engineering Research*, edited by **Jason Borenstein** with Daniel Smith, CITI Program at the University of Miami, 2015.

### (IV) BOOK CHAPTERS AND SECTIONS

- **Jason Borenstein**, John Bucher, and Joseph Herkert. “Ethics, Autonomous Vehicles, and the Future City.” In *Autonomous Vehicle Ethics: The Trolley Problem and Beyond*, edited by Ryan Jenkins, David Cerny, and Tomas Hribek, Oxford University Press, 2022, pages 415-431.
- Daniel S. Schiff, Kelly Laas, Justin B. Biddle, and **Jason Borenstein**. “Global AI Ethics Documents: What They Reveal About Motivations, Practices, and Policies.” In *Codes of Ethics and Ethical Guidelines*, edited by Kelly Laas, Michael Davis, and Elisabeth Hildt, Springer, 2022, pages 121-143.
- Yvette Pearson and **Jason Borenstein**. “The Impact of Robot Companions on the Moral Development of Children.” In: *Engineering and Philosophy*. Philosophy of Engineering and Technology, Pirtle Z., Tomblin D., Madhavan G. (eds), vol 37. Springer, 2021, [https://doi.org/10.1007/978-3-030-70099-7\\_12](https://doi.org/10.1007/978-3-030-70099-7_12).
- Joseph Herkert and **Jason Borenstein**. “Responsibilities to the Public: Professional Engineering Societies.” In *The Routledge Handbook of the Philosophy of Engineering*, edited by Diane P. Michelfelder and Neelke Doorn, Routledge, 2020.
- **Jason Borenstein** and Ron Arkin. “Robots, Ethics, and Intimacy: The Need for Scientific Research.” In *On the Cognitive, Ethical, and Scientific Dimensions of Artificial Intelligence: Themes from IACAP 2016*, edited by Don Berkich and Matteo Vincenzo d'Alfonso, Springer, 2019, pages 299-309.
- **Jason Borenstein**, Ayanna Howard, and Alan Wagner. “Pediatric Robotics and Ethics: The Robot is Ready to See You Now But Should It Be Trusted?” In *Robot Ethics 2.0*, edited by Patrick Lin, Keith Abney, and George Bekey, Oxford University Press, 2017.
- Yvette Pearson and **Jason Borenstein**. “The Ethical Impact of an Increased Presence of Robots on Human-Human Interaction (HHI) within Aging Populations.” In *What Social Robots Can and Should Do*, edited by Johanna Seibt, Marco Nørskov, and Søren Schack Andersen, Frontiers in Artificial Intelligence, volume 290, IOS Press Ebooks, 2016, pages 174-183.
- “Ethics of Expert Testimony.” In *International Encyclopedia of Ethics*, edited by Hugh LaFollette, Wiley-Blackwell (published online June 18, 2015).
- “Reflections on Teaching RCR at an U.S. Engineering Institution.” In *Integrity in the Global Research Arena*, edited by Nicholas H. Steneck, Melissa S. Anderson, Sabine Kleinert, and Tony Mayer, World Scientific, 2015.
- **Jason Borenstein** and Yvette Pearson. “Robot Caregivers: Ethical Issues Across the Human Lifespan.” In *Robot Ethics: The Ethical and Social Implications of Robotics*, edited by Patrick Lin, Keith Abney, and George Bekey, Cambridge, Massachusetts: MIT Press, 2011, pages 251-265.
- **Jason Borenstein** and Kenneth W. Goodman. “Ethical Issues in Geriatric Psychiatry.” In *Principles and Practice of Geriatric Psychiatry* (2<sup>nd</sup> edition), edited by Marc Agronin and Gabe Maletta, Philadelphia: Lippincott, Williams & Wilkins, 2011, pages 279-288.
- “Research Ethics Overview.” In *Encyclopedia of Science and Technology Communication*, Vol. 2, edited by Susanna Hornig Priest, SAGE Publications, Inc., July 2010, pages 632-636.
- “Science and Engineering Ethics.” In *Encyclopedia of Science and Technology Communication*, Vol. 2, edited by Susanna Hornig Priest, SAGE Publications, Inc., July 2010, pages 679-681.

## (V) CONFERENCE AND WORKSHOP PROCEEDINGS

- Quintin Kreth, Daniel Schiff, Jonna Lee, Ellen Zegura, and **Jason Borenstein**. "Social Responsibility Attitudes Among Undergraduate Computer Science Students: An Empirical Analysis," *2022 ASEE Annual Conference & Exposition* (ASEE Engineering Ethics Division Best Paper Award).
- Shengkang Chen, Ronald C. Arkin, **Jason Borenstein**, Alan R. Wagner, and Arthur Melo Cruz. "Case-Based Robotic Architecture with Multiple Underlying Ethical Frameworks for Human-Robot Interaction." *Proceedings of the Seventh International Conference on Robot Ethics and Standards (ICRES 2022)*.
- Vidullan Surendran, Arthur Melo Cruz, Alan Wagner, **Jason Borenstein**, Ronald Arkin, and Shengkang Chen. "Informing a Robot Ethics Architecture Through Folk and Expert Morality," *Proceedings of the Seventh International Conference on Robot Ethics and Standards (ICRES 2022)*.
- Shengkang Chen, Vidullan Surendran, Alan R. Wagner, **Jason Borenstein**, and Ronald C. Arkin. "Toward Ethical Robotic Behavior in Human-Robot Interaction Scenarios," *TRAITS-HRI 2022*.
- **Jason Borenstein**, Ronald C. Arkin and Alan R. Wagner. "A Metaethical Reflection: The Ethics of Embedding Ethics into Robots," *2022 IEEE International Conference on Advanced Robotics and Its Social Impacts (ARSO)*, pages 1-3, doi: 10.1109/ARSO54254.2022.9802973.
- Yvette Pearson and **Jason Borenstein**. "Robots, Ethics, and Pandemics: How Might a Global Problem Change the Technology's Adoption?" *2020 IEEE International Symposium on Technology and Society (ISTAS)*, pages 12-19, doi: 10.1109/ISTAS50296.2020.9462229.
- Ben Rydal Shapiro, Emma Lovegall, Amanda Meng, **Jason Borenstein**, and Ellen Zegura. "Using Role-Play to Scale the Integration of Ethics across the Computer Science Curriculum." *52nd ACM Technical Symposium on Computer Science Education (SIGCSE '21)*, <https://doi.org/10.1145/1234567890>.
- De'Aira Bryant, **Jason Borenstein**, and Ayanna Howard. "Why Should We Gender? The Effect of Robot Gendering and Occupational Stereotypes on Human Trust and Perceived Competency." *Proceedings of 2020 ACM Conference on Human-Robot Interaction (HRI'20)*, <https://doi.org/10.1145/3319502.3374778>.
- Ayanna Howard, **Jason Borenstein**, and Kinnis Gosha. 2019. "NSF-funded Fairness, Ethics, Accountability, and Transparency (FEAT) Workshop Report: A report based on an NSF-funded workshop hosted by the Georgia Institute of Technology and Morehouse College."
- Alexandria Erwin, **Jason Borenstein**, Wendy Newstetter, Colin Potts, and Ellen Zegura. "Undergraduate STEM Students and Community Engagement Activities: Initial Findings from an Assessment of Their Concern for Public Well-Being." *2018 ASEE Annual Conference & Exposition* (Salt Lake City-UT).
- **Jason Borenstein**, Carla B. Zoltowski, Brent K. Jesiek, and Qin Zhu. "Workshop - Assessing Science and Engineering Ethics Outcomes: An Interactive Review of Tools." *2014 IEEE International Symposium on Ethics in Science, Technology and Engineering*.
- "Some Key Considerations When Developing Ethics Training for Science and Engineering Graduate Students." *Midwestern Association of Graduate Schools Proceedings of the 65th Annual Meeting*, April 1-3, 2009, pages 16-19.
- **Jason Borenstein**, Matthew J. Drake, Robert Kirkman, and Julie L. Swann, "The Test of Ethical Sensitivity in Science and Engineering (TESSE): A Discipline-Specific Assessment Tool for Awareness of Ethical Issues." AC 2008-339, *Proceedings of the 2008 Annual ASEE Conference*, American Society for Engineering Education (ASEE).

## (VI) OTHER PUBLICATIONS

- Jessica Wyndham, Nathaniel Weisenberg, Catherine A. McCarty, Gretchen T. Goldman, Matthew Brown, and **Jason Borenstein**. *UNESCO Recommendation on Science and Scientific Researchers and the United States: An Analysis of Key Themes*, AAAS, August 2022.

- Daniel Schiff, Justin Biddle, **Jason Borenstein**, and Kelly Laas. “What’s Next for AI Ethics, Policy, and Governance? A Global Overview.” *SocArXiv*. December 18, 2019, doi:10.1145/3375627.3375804.
- **Jason Borenstein**, Joseph Herkert, and Keith W. Miller. “Three Scenarios with Self-Driving Vehicles: Technical Decisions and Human Values are Intertwined.” *Online Ethics Center for Science and Engineering*, 2018, available at <https://onlineethics.org/cases/three-scenarios-self-driving-vehicles>.
- “Ethical Issues From Authorship to Human Subjects Research.” *Physics Today*, Vol. 71, Issue 8, August 2018.
- “RCR for Engineers.” *Professional Ethics Report*, Vol. XXII, No. 3, Summer 2009.
- “The Challenge of Being an Ethical Building Inspection Engineer.” *The NABIE Examiner*, Vol. 19, No. 1, March 2009, page 7.
- “Obstacles to Ethical Engineering.” *PE: The Magazine for Professional Engineers*, Vol. 31, No. 2, March 2009, page 10.
- “Recurrence of the Same? Intelligent Design and the Biology Classroom.” *Reports of the National Center for Science Education*, Vol. 27, 2007, pages 31-35.
- “Intelligent Design: Religious Concerns Aside, It Is Still Troubling.” *Professional Ethics Report*, Vol. XIX, No. 1, Winter 2006.
- “Ethics Committees as Sources of Educational Opportunity.” *Florida Bioethics*, Autumn 2001-Winter 2002.
- “Scientific Experts and the Courts.” *Professional Ethics Report*, Vol. XIV, No. 3, Summer 2001.
- “DNA Tests Spark Challenge to Morality of Death Penalty.” *Florida Bioethics*, Summer 2001.
- “The Change to OHRP.” *Professional Ethics Report*, Vol. XIII, No. 3, Fall 2000.

## CONFERENCE AND PRESENTATION ACTIVITIES

### (I) CONFERENCE PRESENTATIONS

- **Jason Borenstein** (presenter), Kathleen Gosden, and Kyla Ross. “Navigating Research Integrity Challenges: Determining the Scope of the Research Misconduct Process.” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, March 4, 2023 (Portland-OR).
- Quintin Kreth (presenter), Daniel Schiff, Jeonghyun (Jonna) Lee, Ellen Zegura, and **Jason Borenstein**. “Examining Professional Social Responsibility Development among Computer Science Undergraduates Using the Generalized Professional Responsibility Assessment.” *2022 American Society for Engineering Education (ASEE) Annual Conference and Exposition*, June 28, 2022 (Minneapolis-MN).
- **Jason Borenstein** (presenter), Ronald Arkin, and Alan Wagner. “A Robot Ethics Dilemma: To Side with Folk Morality or the Experts?” *The International Association for Computing and Philosophy (IACAP)*, July 24, 2022 (virtual event).
- Yvette Pearson (presenter), Joseph Herkert, **Jason Borenstein**, and Keith Miller. “Defying Gravity: Is the Ethics of Flying Cars Up in the Air?” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, February 26, 2022 (Cincinnati-OH).
- Kera Allen (presenter), Daniel Schiff, **Jason Borenstein**, Ellen Zegura, and Charles Isbell. “Redesigning the Computing: Ethics Curriculum: Initial Observations.” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, February 26, 2022 (Cincinnati-OH).
- Daniel Schiff (co-presenter), Jeonghyun (Jonna) Lee (co-presenter), **Jason Borenstein**, and Ellen Zegura. “Influences and Inhibitors in Undergraduate Social Responsibility Development: Evidence from a Mixed-Methods

Longitudinal Study.” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, February 25, 2022 (Cincinnati-OH).

- Joseph Herkert, Yvette Pearson, **Jason Borenstein**, and Keith Miller (presenter). “Technology, Ethics, Social Justice, and Equity: Challenges and Opportunities of the COVID-19 Pandemic.” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, February 27, 2021 (simulive presentation).
- **Jason Borenstein** (presenter), Ronald Arkin, and Alan Wagner. “Mea Culpa? Embedding Ethics in Robots - A Metaethical Examination.” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, February 27, 2021 (simulive presentation).
- Daniel Schiff (co-presenter), Jonna Lee (co-presenter), **Jason Borenstein**, and Ellen Zegura. “Does Community Engagement in College Shape Social Responsibility Attitudes? Evidence from a Longitudinal Study.” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, February 27, 2021 (flash presentation).
- **Jason Borenstein**, Joseph Herkert, Yvette Pearson, and Keith Miller (presenter). “Autonomous Vehicles and Pandemic Response: Ethical Challenges and Opportunities.” *2020 Forum on Philosophy, Engineering and Technology (FPET)*, November 18, 2020 (virtual event).
- Yvette Pearson (presenter) and **Jason Borenstein**. “Robots, Ethics, & Pandemics: How Might a Global Problem Change the Technology’s Adoption?” *2020 IEEE International Symposium on Technology and Society (IEEE ISTAS 2020)*, November 12, 2020 (virtual event).
- Ron Arkin (presenter), Alan Wagner, **Jason Borenstein**, and Cameron Taylor. “A Human-Robot Interaction Architecture to Support Ethical Actions Derived From Folk Morality and Expert Opinion.” *11th International Conference on Applied Human Factors and Ergonomics (AHFE 2020)*, July 18, 2020 (virtual event).
- Joseph Herkert (co-presenter), **Jason Borenstein**, and Keith Miller (co-presenter). “The Boeing 737 Max: Lessons for Engineering Ethics.” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, February 22, 2020 (Atlanta-GA).
- Daniel Schiff (presenter), Emma Logevall, **Jason Borenstein**, Wendy Newstetter, Colin Potts, and Ellen Zegura. “Pathways to Professional Social Responsibility: The Development of Personal and Professional Values in Undergraduates.” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, February 22, 2020 (Atlanta-GA).
- **Jason Borenstein** (presenter), Alan Wagner, and Ron Arkin. “Embedding Ethics into Humanoid Robots: Philosophical Underpinnings.” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, February 21, 2020 (Atlanta-GA).
- Daniel Schiff (presenter), Kelly Laas, **Jason Borenstein**, and Justin Biddle. “Global Perspectives on Artificial Intelligence Ethics and Policy: Findings from a Review of International Documents.” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, February 21, 2020 (Atlanta-GA).
- Emma Logevall (presenter), **Jason Borenstein**, Amanda Meng, Benjamin Shapiro, Ellen Zegura. “Cultivating an Ethics-Inclusive Mindset Through Role Play in Undergraduate Computer Science Courses.” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, February 21, 2020 (Atlanta-GA).
- Daniel Schiff (presenter), Justin Biddle, **Jason Borenstein**, and Kelly Laas. “What’s Next for AI Ethics, Policy, and Governance? A Global Overview.” *AIES 2020: AAAI/ACM Conference on AI, Ethics, And Society*, February 8, 2020 (New York-NY).
- Ron Arkin (presenter), **Jason Borenstein**, and Alan Wagner. “Competing Ethical Frameworks Mediated by Moral Emotions in HRI: Motivations, Background, and Approach.” *International Conference on Robot Ethics and Standards (ICRES)*, July 29, 2019 (London-UK).
- Alan Wagner (presenter), **Jason Borenstein**, and Ron Arkin. “Kantian One Day, Consequentialist the Next: Moral Emotions As Mediators Between Ethical Frameworks for Robots.” *The International Association for Computing and Philosophy (IACAP)*, June 7, 2019 (Mexico City-Mexico).

- **Jason Borenstein** (co-presenter), Keith W. Miller (co-presenter), and Joseph Herkert. “Autonomous Vehicles and Non-Occupant Safety.” *Computer Ethics—Philosophical Enquiry (CEPE)*, Old Dominion University, May 29, 2019 (Norfolk-VA).
- Daniel Schiff (presenter), **Jason Borenstein**, Justin Biddle, and Kelly Laas. “Assessing AI Ethics: Corporations, Professional Associations, and Governments.” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, March 2, 2019 (Baltimore-MD).
- Daniel Schiff (presenter), Colin Potts, Ellen Zegura, Wendy Newstetter, and **Jason Borenstein**. “Towards a Theoretical Understanding of Professional Social Responsibility Development.” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, March 1, 2019 (Baltimore-MD).
- Presented “Robots and HealthCare: Overtrust and Other Ethical Concerns” during a panel entitled Human-Robot Interaction: Examining Ethical Issues in Three Contexts, *2018 IEEE International Symposium on Technology and Society (IEEE ISTAS 2018)*, November 14, 2018 (Washington DC).
- John Bucher (co-presenter) and **Jason Borenstein** (co-presenter). "Ethics & Autonomous Vehicles: Preparing Your City for Challenges They Will Create." *2018 Ohio Kentucky Indiana (OKI) Regional Planning Conference*, October 4, 2018 (Cincinnati-OH).
- Alexandria Erwin, **Jason Borenstein**, Wendy Newstetter, Colin Potts, and Ellen Zegura (presenter). “Undergraduate STEM Students and Community Engagement Activities: Initial Findings from an Assessment of Their Concern for Public Well-Being.” *2018 ASEE Annual Conference & Exposition*, June 25, 2018 (Salt Lake City-UT).
- Presented “The Generalized Professional Responsibility Assessment (GPRA)” during a panel entitled Assessing Ethics Education: How to Measure Ethical Sensitivity, Reasoning, Behavior, Decision Making, and Skills? at *The Consortium for Socially Relevant Philosophy Off/In Science and Engineering (SRPoiSE) 2018 Conference*, June 5, 2018 (Atlanta-GA).
- **Jason Borenstein** (co-presenter) and Joseph Herkert (co-presenter). “Ethics and Chatbots: Beyond Privacy and Rogue AI.” *2018 Forum on Philosophy, Engineering and Technology (FPET)*, June 1, 2018 (College Park-MD).
- Yvette Pearson (presenter) and **Jason Borenstein**. “Robots’ Potential to Enhance Caregiving Virtues and Practices.” *2018 Forum on Philosophy, Engineering and Technology (FPET)*, June 1, 2018 (College Park-MD).
- Alexandria Erwin (co-presenter), **Jason Borenstein**, Wendy Newstetter, Colin Potts (co-presenter), and Ellen Zegura. “Community Engagement and Undergraduate STEM Education: Initial Findings from an Institutional Transformation Study.” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, March 2, 2018 (Chicago-IL).
- Joseph Herkert (co-presenter), **Jason Borenstein**, and Keith W. Miller (co-presenter). “Planes, Trains, and Flying Taxis: Ethics and the Lure of Autonomous Vehicles.” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, March 2, 2018 (Chicago-IL).
- Mark L. Bourgeois (presenter), Pamela Ansburg, **Jason Borenstein**, Karin Ellison, Elisabeth Hildt, Michael Kalichman, Dena Plemmons, Amit Prasad, and Michael Zigmond. “Recommendations for Responsible Conduct of Research Training Reform.” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, March 2, 2018 (Chicago-IL).
- **Jason Borenstein**, Joseph Herkert, and Keith W. Miller (presenter). “Three Scenarios with Self-Driving Vehicles.” Teaching Research Ethics and Scientific Integrity Workshop, March 1, 2018 (Chicago-IL).
- **Jason Borenstein** (co-presenter) and Keith W. Miller (co-presenter). “Self-Driving Cars: An Examination of Ethical Issues at the Micro and Macro Scale.” *2017 Professional Engineers Conference*, National Society of Professional Engineers, July 21, 2017 (Atlanta-GA).
- Ayanna Howard (presenter) and **Jason Borenstein**. “The Ugly Truth About Ourselves and Our Robot Creations: The Problem of Bias and Social Inequity.” *Societal Implications of Robotics Symposium (SIRoS<sub>2</sub>)*, March 30, 2017 (Providence-RI).

- **Jason Borenstein**, Joseph Herkert, and Keith W. Miller. “Ethics and the Self-Driving Car: A Systems Level Approach.” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, February 24, 2017 (Dallas-TX).
- Yvette Pearson (co-presenter) and **Jason Borenstein** (co-presenter). “The Impact of Robot Companions on the Moral Development of Children.” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, February 24, 2017 (Dallas-TX).
- Presenter and organizer of a panel entitled “Building an RCR Program: Perspectives from Four Institutional Contexts.” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, February 24, 2017 (Dallas-TX).
- Yvette Pearson (presenter) and **Jason Borenstein**. “The Ethical Impact of an Increased Presence of Robots on Human-Human Interaction (HHI) within Aging Populations.” *Robophilosophy/TRANSOR 2016: What Social Robots Can and Should Do*, October 20, 2016 (Aarhus University-Denmark).
- **Jason Borenstein** and Ron Arkin (presenter). “Robots, Ethics, and Intimacy: The Need for Scientific Research.” *International Association for Computing and Philosophy – Annual Meeting (IACAP 2016)*, June 16, 2016 (Ferrara-Italy).
- **Jason Borenstein** (presenter) and Ron Arkin. “Nudging for Good: Robots, Ethics, and the Performance of Charitable Behavior.” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, February 19, 2016 (Reston-VA).
- Joseph Herkert (presenter) and **Jason Borenstein**. “Self-Driving Cars and the Ethical Responsibilities of Design Engineers.” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, February 19, 2016 (Reston-VA).
- “RCR for Doctoral Students: Examining Pedagogical Approaches and Topic Areas.” Presented during the Panel of Science and Engineering Ethics. *17<sup>th</sup> International Conference on Ethics Across the Curriculum*, October 9, 2015 (Greenville-SC).
- “The Development and Underlying Philosophy of the Engineering & Science Issues Test (ESIT).” Presented during a workshop entitled Assessing Science and Engineering Ethics Outcomes: An Interactive Review of Tools. *2014 IEEE International Symposium on Ethics in Engineering, Science, and Technology*, May 23, 2014 (Chicago-IL).
- “An Introduction to RCR Policies and Topic Areas.” *Georgia 2014 Audit Conference*, May 13, 2014 (Morrow-GA).
- Presenter during a panel session entitled “Using Problem-Based Learning to Prepare Students for Ill-Structured Ethical Challenges.” Engineering Ethics Division session, *2013 ASEE Annual Conference*, June 26, 2013 (Atlanta-GA).
- **Jason Borenstein** (presenter) and Robert Butera. “Implementing a Campus-Wide RCR Training Requirement for Doctoral Students.” Engineering Ethics Division session, *2013 ASEE Annual Conference*, June 25, 2013 (Atlanta-GA).
- “Reflections on Teaching RCR at the Georgia Institute of Technology.” The session was entitled Education in the Responsible Conduct of Research, *3<sup>rd</sup> World Conference on Research Integrity*, May 7, 2013 (Montreal-Canada).
- “The CITI Program’s Conflicts of Interest Course: Initial Observations.” The session was entitled Conflict of Interest, *3<sup>rd</sup> World Conference on Research Integrity*, May 7, 2013 (Montreal-Canada).
- “CITI RCR Program Update: 2012 Developers Meeting.” *Collaborative Institutional Training Initiative (CITI) Program Annual Developer Meeting*, November 2, 2012 (Fort Lauderdale-FL).
- “Developing a Responsible Conduct of Research Program: Issues to Consider.” Presented during a workshop, co-organized by Sharon Shriver, entitled Establishing an Effective RCR Program: Practical Strategies & Issues to Consider, *SRA International 2012 Annual Meeting*, September 30, 2012 (Orlando-FL).

- Michael Hoffmann (presenter) and **Jason Borenstein**. “Changing Engineering Ethics Education: Understanding Ill-Structured Problems through Argument Visualization in Collaborative Learning.” *ASEE 2012 Annual Conference*, June 11, 2012 (San Antonio-TX).
- “Developing an Engineering Ethics Course in Russia: Opportunities and Challenges.” Presented during a roundtable entitled Innovative Methods for Teaching Ethics to Engineers and Scientists, *Association for Practical and Professional Ethics (APPE) Annual Meeting*, March 3, 2012 (Cincinnati-OH).
- Yvette Pearson and **Jason Borenstein**. “‘Creating Companions’: The Ethics of Designing Robots for Children.” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, March 2, 2012 (Cincinnati-OH).
- “Developing an Ethics Curriculum for Applied Physiology and Biomedical Engineering Students.” Presented during a panel entitled Interdisciplinary Approaches to Ethics Education, *Congress on Teaching Social & Ethical Implications of Research*, Arizona State University, November 10, 2011 (Tempe, AZ).
- Roberta M. Berry (presenter), **Jason Borenstein**, and Robert J. Butera. “Confronting Ethical Issues in Biomedical Research: A Problem-Based Learning Approach and Consulting Model.” *Sixth International Conference on Ethical Issues in Biomedical Engineering*, April 3, 2011 (Brooklyn, NY).
- Yvette Pearson and **Jason Borenstein**. “The Intervention of Robot Caregivers and the Cultivation of Children’s Capability to Play.” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, March 5, 2011 (Cincinnati-OH).
- “A Problem-Based Learning Approach to Ethics Education in Science and Engineering.” Presented during a roundtable entitled Progress as an Idea: A Macroethics Concept for Science and Engineering Students, *Association for Practical and Professional Ethics (APPE) Annual Meeting*, March 5, 2011 (Cincinnati-OH).
- “Robotics, Ethics, and the Environment.” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, March 5, 2010 (Cincinnati-OH).
- “The Engineering and Science Issues Test (ESIT): An Overview.” *Collaborative Institutional Training Initiative (CITI) Program Bi-Annual Developer Meeting*, October 24, 2009 (Seattle-WA).
- “The Ethics of Autonomous Military Robots.” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, March 7, 2009 (Cincinnati-OH).
- Robert Kirkman and **Jason Borenstein**. “Two Instruments for Assessing Ethics Education in Science and Engineering.” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, Feb. 23, 2008 (San Antonio-TX).
- “RCR in Scientific and Engineering Fields: Responsible Authorship.” Presented during a panel session entitled Underserved Areas for Resources in Responsible Conduct of Research (RCR) Education, *Association for Practical and Professional Ethics (APPE) Annual Meeting*, Feb. 2007 (Cincinnati-OH).

## (II) INVITED TALKS

- “The Rise of AI: Ethical Challenges for Engineers.” Monthly meeting of the Cobb Chapter of the Georgia Society of Professional Engineers (GSPE), March 8, 2023.
- Presented “RCR: An Introduction to Key Considerations” during the *16th Annual Grantsmanship Training & Recognition Institute*, Fort Valley State University, September 22, 2022 (virtual event).
- Invited panelist during the *Workshop: AI in Agriculture: Ethical Concerns and Responsible Solutions*, hosted by George Mason University, June 22, 2022 (virtual event).
- Presented “AI, Robots, and Trust” during a panel titled *Increasing Trust in Artificial Intelligence: Approaches and Limitations*, hosted by the Illinois Institute of Technology, September 22, 2021 (virtual event).
- Invited speaker on Responsible Conduct of Research (RCR) topics during Clark Atlanta University’s *Research Initiative for Scientific Enhancement (RISE) Program*, July 15, 20, 21 and 22, 2021 (virtual event).

- “Ethics & AI: Emerging Societal Challenges.”
  - Invited speaker during a meeting of FBIPCAAA, FBI Phoenix Citizens Academy Alumni Association, May 19, 2021 (virtual event).
  - Invited speaker during a meeting of NCMS, The Society of Industrial Security Professionals, May 12, 2021 (virtual event).
- “AI and Ethics: An Overview of Challenges and Opportunities.” Monthly meeting of the Atlanta Metro Chapter of the Georgia Society of Professional Engineers (GSPE), September 14, 2020 (virtual event).
- Invited panelist during an event entitled “Navigating the (Mis)Perceptions of Autonomous Vehicles.” *IEEE TechEthics*, November 14, 2019 (New York-NY).
- Presented “Responsible Conduct of Research: Authorship, Publication, & Data Integrity” and “Engineering in Society: AI and Ethics” during the University of Wisconsin – Madison’s 2019 *David & Sarah Epstein Research Ethics Distinguished Speaker Seminar Series*, September 24-25, 2019 (Madison-WI).
- Invited speaker on Responsible Conduct of Research (RCR) topics during Clark Atlanta University’s *National Institute of Health/National Institute of General Medical Sciences (NIH/NIGMS) Sponsored Research Initiative for Scientific Enhancement (RISE) Program*, September 6, 13, and 20, 2019 (Atlanta-GA).
- Invited panelist during an event entitled “Artificial Intelligence Impact in the 4th Industrial Revolution.” *2019 International Conference of the IEEE Technology and Engineering Management Society (TEMSCON)*, June 13, 2019 (Atlanta-GA).
- Invited panelist during an event entitled “What Connected Transportation Tech Means for Our Future.” Georgia Tech Institute for People and Technology (IPaT) *Thursday Think Tank* meeting, March 14, 2019 (Atlanta-GA).
- Invited panelist during an event entitled “Ethics & Values for Reflective Urban Automation.” Georgia Tech *College of Design Research Forum*, January 24, 2019 (Atlanta-GA).
- “Robot Caregivers and Health Care: Ethical Challenges for Engineers.” *Alpha Eta Mu Beta Annual Ethics Session*, October 19, 2018 (Atlanta-GA).
- “Self-Driving Cars and Ethics: An Overview of Design Challenges.” *STEM & Society Speaker Series*, Kettering University, April 23, 2018 (Flint-MI).
- Invited panelist during an event entitled “Chatbots and Assistants - Cognitive Interactions to Support the Future.” Technology Association of Georgia (TAG) Mobility meeting, November 1, 2017 (Atlanta-GA).
- Invited panelist during an event entitled “Self-Driving Cars and Beyond: Societal Impacts of Autonomous Transportation Systems.” *IEEE TechEthics Conference*, October 13, 2017 (Washington DC).
- **Jason Borenstein** (co-presenter), Joseph Herkert (co-presenter), and Keith W. Miller. “A System Level Perspective on Self-Driving Cars and Engineering Ethics.” Presented during a panel entitled Ethics and Autonomous Vehicles. *2017 NAE-AAES Convocation of the Professional Engineering Societies*, April 24, 2017 (Washington DC).
- “Self-Driving Cars and Ethics: An Overview.”
  - Monthly meeting the Cobb County Chapter of the Georgia Society of Professional Engineers (GSPE), February 8, 2017 (Marietta-GA).
  - Monthly meeting of the Atlanta Metro Chapter of the Georgia Society of Professional Engineers (GSPE), December 12, 2016 (Tucker-GA).
- “Ethics for Professional Engineers: An Overview.” Georgia Society of Professional Engineers (GSPE) *2015 PDH Day*, December 11, 2015 (Atlanta-GA).
- “Robots as Caregivers: Ethical Challenges for Researchers.” The University of Miami Ethics Programs’ *Dialogues in Research Ethics*, December 8, 2012 (Miami-FL).
- “Responsible Authorship in STEM fields: Policies and Pitfalls.” *RCR Forum Series*, Duke University, October 15, 2012 (Durham-NC).

- Michael H.G. Hoffmann and **Jason Borenstein**. “AGORA: A New Interactive and Web-based Learning Tool for Engineering Ethics.” Presented during an International Seminar entitled *Development and Modernization of Educational Programs & Technologies*, Bauman Moscow State Technical University, November 17, 2010 (Moscow-Russia).
- “Ethics, Sustainability, and Geoen지니어ing.” Monthly meeting of the Atlanta Metro Chapter of the Georgia Society of Professional Engineers (GSPE), November 8, 2010 (Tucker-GA).
- “Engineering and Ethics: Challenges for Structural Engineers.” Monthly meeting of the Structural Engineers' Association of Georgia (SEAOG), October 21, 2010 (Atlanta-GA).
- “Professional Ethics and RCR.” *National Conference on College Cost Accounting (NACCA) Annual Meeting*, October 5, 2010 (Atlanta-GA).
- “Ethics for Environmental Professionals.” Air & Waste Management Association Georgia Chapter meeting, May 14, 2010 (Atlanta-GA).
- “The Capabilities Approach and Robotic Caregivers.” *UCSD's Biomedical Ethics Seminar Series*, Feb. 17, 2010 (San Diego-CA).
- “The Ethics of Emerging Technologies.” Monthly meeting of the Atlanta Metro Chapter of the Georgia Society of Professional Engineers (GSPE), Feb. 8, 2010 (Tucker-GA).
- “Ethical Engineering: Concepts and Challenges.” *NSPE's Online Seminar Series*, September 15, 2009.
- “Professional Ethics and Research Ethics in Science and Engineering.” *Midwestern Association of Graduate Schools (MAGS) 65<sup>th</sup> Annual Meeting*, April 3, 2009 (Kansas City-MO).
- “Engineering Ethics: Key Concepts and Current Challenges.” *National Academy of Building Inspection Engineers (NABIE) Annual Meeting*, Feb. 7, 2009 (Savannah-GA).
- “Engineering and Ethics: Why It Can Be Difficult To Do The Right Thing.” Monthly meeting of the Atlanta Metro Chapter of the Georgia Society of Professional Engineers (GSPE), Nov. 10, 2008 (Tucker-GA).
- “Intelligent Design in the Classroom?” Georgia Tech Library’s *Tuesday Talks* series, November 2006 (Atlanta-GA).
- “Science, Technology, the Environment, and Society.” Panel member at the *National Undergraduate Bioethics Conference*, Emory University, October 2001 (Atlanta-GA).
- “Expert Witness Testimony: Philosophical and Legal Issues.” Sheppard Pratt Hospital’s Ethics Committee meeting, July 2001 (Maryland).
- “Genetics and the Law.” St. Thomas University School of Law’s conference entitled *The New Genetics: Legal, Medical, & Religious Perspectives*, February 2001 (Miami-FL).
- “Expertise and the Courts.” University of Miami’s Department of Philosophy, December 2000 (Coral Gables-FL).

### (III) POSTERS

- Karin Ellison (presenter), Kelly Laas, Rosalyn Berne, **Jason Borenstein**, Dena Plemmons, and Mary Mathias. “Hosting Workshops to Foster Community: First Steps in Transforming the Online Ethics Center (OEC) and STEM Ethics Education.” A poster presented during the *Research Integrity Pre-Conference Workshop*, Association for Practical and Professional Ethics Annual Meeting, February 20, 2020 (Atlanta-GA).
- Alexandria Erwin, **Jason Borenstein**, Wendy Newstetter, Colin Potts (presenter), and Ellen Zegura. “STEM Students’ Attitudes Towards Public Welfare: The Effects of Community Engagement.” A poster presented during the *Engaged Scholarship for Ethics and Responsible Innovation in STEM Fields* workshop at North Carolina State

University, March 14, 2018 (Raleigh-NC).

- **Jason Borenstein**, Alan Wagner (presenter), and Ayanna Howard. “A Case Study in Caregiver Overtrust of Pediatric Healthcare Robots.” A poster presented during the *Robotics: Science and Systems 2017 Workshop: Morality and Social Trust in Autonomous Robots*, July 16, 2017 (Cambridge-MA).
- **Jason Borenstein** (presenter) and Judy Willis. “Growing a Campus-Wide RCR Program: Pedagogical and Administrative Challenges.” A poster presented during the *5<sup>th</sup> World Conference on Research Integrity*, May 30, 2017 (Amsterdam-The Netherlands).
- Kenneth D. Pimple and **Jason Borenstein** (presenter). “Introducing the Short Course on RCR Instruction (SCoRCRI): A Project of the U.S. HHS Office of Research Integrity.” A poster presented during the *5<sup>th</sup> World Conference on Research Integrity*, May 29, 2017 (Amsterdam-The Netherlands).
- Karin D. Ellison (presenter), Karen Wellner, Heather Canary, **Jason Borenstein**, Joseph Herkert, and Jameson Wetmore. “Poster: Developing and Assessing Macroethics Modules for the Collaborative Institutional Training Initiative (CITI) Program's Responsible Conduct of Research (RCR) Courses.” National Science Foundation, Ethics Education in Science and Engineering, PI Meeting, February 28, 2011 (Washington DC).

#### (IV) PROGRAM ORGANIZER/COMMITTEE MEMBER

- Co-organizer along with the Embassy of France in the US, Emory University, and other partners of *Simulation: AI and Health Disparities On A Global Stage*, October 29-November 1, 2022 (Atlanta-GA).
- Member of the Technical Program Committee of the *1st International Conference on AI for People: Towards Sustainable AI (CAIP'21)*, November 20-24, 2021 (virtual event).
- Member of the Program Committee for *IEEE ETHICS-2021: Engineering and Corporate Social Responsibility*, Waterloo, Ontario, Canada, October 28-31, 2021 (virtual event).
- Member of the Program Committee for the *CEPE/IACAP Joint Conference 2021*, July 5-9, 2021 (virtual event).
- Co-organizer along with Greg Kelly and Sam Bruton of the *APPE RISE (Research Integrity Scholars & Educators) Consortium Pre-Conference Workshop*, February 25, 2021 (virtual event).
- Co-organizer along with the Consulate General of France in Atlanta, Emory University, and other partners of *Ethical Management of AI: A French-American Dialogue on Privacy, Trust and Human Oversight in Health and Well-Being*, November 9-10, 2020 (virtual event).
- Co-organizer of a workshop entitled *Working Ethics into the Conversation: Introducing STEM Faculty to Teaching Ethics* hosted by the National Academy of Engineering, October 22-23, 2019 (Washington-DC).
- Co-organizer of a National Science Foundation funded workshop (Award Number: 1903909) entitled “Fairness, Ethics, Accountability, and Transparency (FEAT) in Computer and Information Science and Engineering” hosted by the Georgia Institute of Technology and Morehouse College, August 29-30, 2019 (Atlanta-GA).
- Member of the Program Committee for the *Computer Ethics—Philosophical Enquiry (CEPE) 2019 Conference*, Old Dominion University, May 28-30, 2019 (Norfolk-VA).
- Organized and hosted the *RCR Working Group Meeting* for the CITI Program, March 20, 2019 (Fort Lauderdale-FL).
- Member of the planning committee for the *Short Course on RCR Instruction (SCoRCRI)* sponsored by the US Office of Research Integrity (ORI) and PRIM&R, April 5-6, 2017 (Washington DC).
- Organized and hosted the *RCR Working Group Meeting* for the CITI Program, April 15, 2016 (Atlanta-GA).
- Organized and hosted the *RCR Developers Meeting* for the CITI Program, July 19, 2013 (Atlanta-GA).

## (V) CHAIR/MODERATOR OF CONFERENCE COMMITTEES AND SESSIONS

- Chair of a session on engineering ethics, *Association for Practical and Professional Ethics (APPE) Annual Meeting*, March 4, 2023 (Portland-OR).
- Chair of a session on artificial intelligence and ethics, *Association for Practical and Professional Ethics (APPE) Annual Meeting*, March 3, 2023 (Portland-OR).
- Moderator of a session entitled “Frameworks for Technology, Ethics, and Corporate Social Responsibility,” *IEEE ETHICS-2021: Engineering and Corporate Social Responsibility*, October 28, 2021 (virtual event).
- Chair of a session on technology ethics, *Association for Practical and Professional Ethics (APPE) Annual Meeting*, February 22, 2020 (Atlanta-GA).
- Organizer and moderator of a panel entitled “Strategies for Developing Ethical AI.” *The Consortium for Socially Relevant Philosophy Of/In Science and Engineering (SRPoISE) 2018 Conference*, June 4, 2018 (Atlanta-GA).
- Chair of a session on engineering education, *Association for Practical and Professional Ethics (APPE) Annual Meeting*, February 25, 2017 (Dallas-TX).
- Chair of a session entitled “Engineers in the Public Interest,” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, February 19, 2016 (Reston-VA).
- Chair of the Best Symposium Paper Award Committee, *2014 IEEE International Symposium on Ethics in Engineering, Science, and Technology*, May 23-24, 2014 (Chicago-IL).
- Chair of a session entitled “Privacy and Security,” *2014 IEEE International Symposium on Ethics in Engineering, Science, and Technology*, May 23, 2014 (Chicago-IL).
- Co-chair of a session entitled “Authorship and Credit,” *3<sup>rd</sup> Sino-US Case Study Seminar on Scientific Integrity and Research Ethics*, sponsored by AAAS and the China Association for Science and Technology (CAST), September 21, 2012 (Hangzhou-China).
- Co-chair of a session entitled “Plagiarism and Original Work,” *3<sup>rd</sup> Sino-US Case Study Seminar on Scientific Integrity and Research Ethics*, sponsored by AAAS and the China Association for Science and Technology (CAST), September 21, 2012 (Hangzhou-China).
- Chair of a roundtable entitled “Environmental Responsibility in Perilous Times,” *Association for Practical and Professional Ethics (APPE) Annual Meeting*, March 3, 2012 (Cincinnati-OH).
- Chair of a session entitled “RCR Education II: Assessment,” *Office of Research Integrity’s 2009 Research Conference on Research Integrity*, May 16, 2009 (Niagara Falls-NY).

## (VI) WORKSHOP ACTIVITIES

- Jason Borenstein, Catherine McCarty, and Nathaniel Weisenberg. “Developing a Scientific Integrity Report in Response to the UNESCO Recommendation on Science and Scientific Researchers.” *APPE RISE Consortium Pre-Conference Workshop, Association for Practical and Professional Ethics (APPE) Annual Meeting*, February 24, 2022 (Cincinnati-OH).
- Invited participant at *NSF-NIH Workshop: Security, Privacy, and Ethics in Health and Biomedical Research* hosted by Rutgers University, May 14, May 28, and June 11, 2021 (virtual event).
- Daniel Schiff (presenter), **Jason Borenstein**, and Ellen Zegura. “Social Responsibility Development in Undergraduate STEM Students: Influences and Inhibitors.” *Virtual Workshop: Building Inclusive Ethical Cultures in STEM*, April 24, 2021.
- **Jason Borenstein** and Joseph Herkert. “Ethics Pedagogy: Using Case Studies in the Classroom.” Presented during a workshop entitled *Working Ethics into the Conversation: Introducing STEM Faculty to Teaching Ethics* hosted by the National Academy of Engineering, October 22, 2019 (Washington-DC).

- “Understanding Social Responsibility Through the Generalized Professional Responsibility Assessment (GPRA).” Presented during a workshop entitled *Building an Assessment Toolkit for Research Integrity Education* sponsored by the Association for Practical and Professional Ethics (APPE) and the US Office of Research Integrity (ORI), February 28, 2019 (Baltimore-MD).
- **Jason Borenstein** and Dena Plemmons. “Responsibility in Research.” Presented during the *Short Course on RCR Instruction* (SCoRCRI) sponsored by the US Office of Research Integrity (ORI) and PRIM&R, April 6, 2017 (Washington DC).
- Invited participant at Notre Dame’s NSF-funded workshop *Positive Research Integrity Workshop*, March 3-4, 2017 (South Bend-OH).
- Invited participant at an NSF-funded workshop entitled *Ethical Guidance for Research and Application of Pervasive and Autonomous Information Technology* (PAIT), March 3-4, 2010 (Cincinnati-OH).
- Unpaid project advisor at Arizona State University’s NSF-EESE workshop entitled *Integrating Microethics and Macroethics in Graduate Science and Engineering Education*, Feb. 26-28, 2009 (Tempe-AZ).
- Invited participant at AAAS’s workshop entitled *Professional and Graduate-Level Programs on Dual Use Research and Biosecurity Ethics and Responsibility*, November 21, 2008 (Washington DC).
- Invited participant at the National Academy of Engineering’s workshop entitled *Ethics Education and Science and Engineering Research: What’s Been Learned? What Should Be Done?* August 25-26, 2008 (Washington DC).
- Invited participant at Duke University’s Pratt School of Engineering NSF-EESE workshop entitled *Nanotechnology and Engineering Research Ethics*, June 13, 2007 (Durham-NC).

## (VII) OTHER CONFERENCE OR WORKSHOP ACTIVITIES

- Presented “Institutional Transformation: The Role of Service Learning and Community Engagement on the Ethical Development of STEM Students and Campus Culture” at NSF PI Meeting, September 21, 2018 (Washington DC).
- Co-leader of the STEM Special Interest Group at the *Association for Practical and Professional Ethics (APPE) Annual Meeting*, February 24-25, 2017 (Dallas-TX).
- Co-Leader of Topic Group A: Goals and Aspirations for the *Biotechnology and the Ethical Imagination: A Global Summit* (BEINGS 2015), May 18-20, 2015 (Atlanta, GA).
- Invited participant at a meeting of the *National Advisory Panel on Research Integrity* (NAPRI), organized by Michael Kalichman and Philip Langlais, March 3, 2011 (Cincinnati, Ohio).
- Invited participant at the *National Research Ethics Meeting*, organized by Michael Kalichman and Philip Langlais, April 9, 2009 (Washington DC).
- Guest faculty at an annual conference entitled *Clinical Ethics: Debates, Decisions, Solutions*, March 1999, 2000 & 2001 (Miami, FL).

## EDUCATIONAL ACTIVITIES AND MATERIALS

### (I) ONLINE EDUCATION MODULES

- **Jason Borenstein** and Reid Cushman. “Introduction to RCR (RCR-Basic).” A CITI Program module in the *RCR Basic Course*, available at [www.citiprogram.org](http://www.citiprogram.org) (last updated 2022).
- “Research Involving Human Subjects Research (RCR-Basic).” A CITI Program module in the *RCR Basic Course*, available at [www.citiprogram.org](http://www.citiprogram.org) (last updated 2022).

- “Research Involving Human Subjects Research (RCR-Refresher).” A CITI Program module in the *RCR Refresher Course*, available at [www.citiprogram.org](http://www.citiprogram.org) (last updated 2018).
- Steven P. Nichols and **Jason Borenstein**. “Research Misconduct (RCR-Engineering).” A CITI Program module in the *RCR for Engineering Course* (last updated 2012).
- *Geriatrics and Ethics Project*. University of Miami Ethics Programs Website, available at [http://www.miami.edu/index.php/ethics/projects/geriatrics\\_and\\_ethics/](http://www.miami.edu/index.php/ethics/projects/geriatrics_and_ethics/) (last updated 2005).

## (II) ROLE PLAYING SCENARIOS

- **Jason Borenstein**, Ellen Zegura, and Benjamin Shapiro. “An Academic Institution Decides on an AI Admissions App,” created with support by the Mozilla Responsible Computer Science Challenge, available at: <https://sites.gatech.edu/responsiblecomputerscience/app-overview/> (last updated 2020).
- **Jason Borenstein**, Emma Logevall, Amanda Meng, Benjamin Shapiro, and Ellen Zegura. “A City Decides on Self-Driving Buses,” created with support by the Mozilla Responsible Computer Science Challenge, available at: <https://sites.gatech.edu/responsiblecomputerscience/overview/> (last updated 2020).

## (III) PODCASTS

- John Banja, Mary Delong, and **Jason Borenstein**. “Mentorship: Part One and Part Two,” created for the Atlanta Clinical and Translational Science Institute (ACTSI), available at <http://www.actsi.org/discovery/ethics-center.html> (recorded August 2016).
- John Banja, **Jason Borenstein**, and Michael Iuvone. “Reproducibility,” created for the Atlanta Clinical and Translational Science Institute (ACTSI), available at <http://www.actsi.org/discovery/ethics-center.html> (recorded July 2016).

## (IV) ASSESSMENT INSTRUMENTS

- **Jason Borenstein**, Wendy Newstetter, Colin Potts, and Ellen Zegura. *Generalized Professional Responsibility Assessment (GPRA)*, 2019; based upon work supported by the U.S. National Science Foundation Cultivating Cultures for Ethical STEM program under Grant No. 1635554, available at [https://serve-learn-sustain.gatech.edu/sites/default/files/images/ga\\_tech\\_gpra-firstyearstudents.pdf](https://serve-learn-sustain.gatech.edu/sites/default/files/images/ga_tech_gpra-firstyearstudents.pdf).
- **Jason Borenstein**, Robert Kirkman, and Julie L. Swann. *Test of Ethical Sensitivity in Science and Engineering (TESSE)*, Center for Ethics and Technology, Georgia Institute of Technology, 2007.
- **Jason Borenstein**, Robert Kirkman, and Julie L. Swann. *Engineering and Science Issues Test (ESIT)*, Center for Ethics and Technology, Georgia Institute of Technology, 2006.

## (V) OTHER EDUCATIONAL ACTIVITIES

- “AI and AVs: An Overview of Ethical Challenges.” Presentation during a mobile robotics class, Swarthmore College, October 20, 2020 (virtual event).
- Guest instructor for Clark Atlanta University’s RISE Virtual Professional Development Workshops, July 6-18, 2020 (virtual event).

## HONORS AND AWARDS

- 2022 IAC Million Dollar Club/Faculty Research Award, Ivan Allen College, Georgia Institute of Technology, 2022
- Gold Star Award (recognizing cumulative grants of \$250,000 within five years of the first grant), Ivan Allen College, Georgia Institute of Technology, 2021
- Faculty of the Year, School of Public Policy, Georgia Institute of Technology, 2020

- Professional Development Grant, Provost's Office, Georgia Institute of Technology, 2017
- Gerrit and Edith Schipper Award for Outstanding Graduate Student in Philosophy, Department of Philosophy, University of Miami, 2001

## **PROFESSIONAL DEVELOPMENT TRAINING**

- Georgia Tech Implicit Bias Workshop for Search Committees, January 19, 2023
- Attendee at the HHS-ORI/CWRU Virtual Research Integrity Officer (RIO) Boot Camp, December 1-3, 2021
- Georgia Tech Implicit Bias Workshop, August 29, 2018

## **SERVICE ACTIVITIES**

### **(I) GEORGIA TECH SERVICE ACTIVITIES**

- Member of the Search Committee for the Associate Vice President for Research Integrity Assurance, 2023
- Chair of the Research Misconduct Policy Committee, 2022-2023
- Member of the Institute Non-Tenure Track Faculty Promotion Committee Meeting, 2022-2023
- Assisted the Office of the Provost with the scholarly/research misconduct allegation process, 2018-2023
- Member of the RCR Advisory Committee, 2011-2023
- Member of the Stamps Health Services Advisory Committee (SHSAC), 2011-2022
- Member of the Ivan Allen College of Liberal Arts Diversity, Equity, and Inclusion Council (DEI Council @ IAC), 2021-2022
- Member of the Scholarly/Research Misconduct Policy and Research Integrity Officer Committee, 2021
- Member of the leadership team for the Ethics, Technology, and Human Interaction Center (ETHICx), 2020-2021
- Member of the Georgia State University – Georgia Institute of Technology Joint Center for Advanced Brain Imaging (CABI) Institutional Review Board (IRB), 2017-2021
- Associate Director of the Center for Ethics and Technology at Georgia Tech, 2007-2021
- Member of the Institute Strategic Plan – Amplify Impact Working Group, March-May 2020
- Member of the Institute Committee on Promotion of Non-Tenure Track Faculty, Spring 2019
- Member of the Non-College Non-Tenure-Track Faculty Promotions Committee, Fall 2017 and Fall 2018
- Member of the Serve-Learn-Sustain Assessment Committee, 2016-2018
- Member of the Graduate Education Strategic Plan Working Group, Fall 2013

### **(II) GEORGIA TECH AFFILIATIONS**

- Faculty Affiliate, Research on Careers in Science (ROCS) Lab, 2021-present
- Affiliated Faculty, Institute for Robotics and Intelligent Machines (IRIM), 2016-present
- Faculty, GVU Center, 2020-2022
- Affiliated Faculty, Center for the Development and Application of Internet of Things Technologies (CDAIT), 2015-2020

### **(III) MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS**

- Member of the American Association for the Advancement of Science (AAAS), 2014-present
- Member of the IEEE Society on Social Implications of Technology (SSIT), 2014-present
- Member of the American Society for Engineering Education (ASEE), 2009-present
- Member of the Association for Practical and Professional Ethics (APPE), 1999-present
- Member of the American Philosophical Association (APA), 1998-2021
- Member of the International Association for Computing and Philosophy (IACAP), 2015
- Member of the Society for Ethics Across the Curriculum (SEAC), 2015
- Member of the National Advisory Panel on Research Integrity (NAPRI), 2010-2013
- Member of the Responsible Conduct of Research Education Committee (RCREC), 2010-2013

- Associate Member of the Consortium for Emerging Technologies, Military Operations and National Security (CETMONS), 2010-2013
- Active non-member participant in the Atlanta Metro Chapter of Georgia Society of Professional Engineers (GSPE), 2008-2013
- Member of the Advisory Board for The Nanoethics Group, 2006-2008
- Member of the Florida Bioethics Network, 2000-2002
- Member of the South Florida Bioethics/Health Law Working Group, 1998-2001

#### **(IV) EXPERT AND OTHER PROFESSIONAL COMMITTEES/WORKING GROUPS**

- Member of the IEEE SSIT Technical Committee on Ethics/Human Values, 2021-present
- Member of Research Integrity Scholars and Educators (RISE) working group that is advising the National Science Foundation on its research ethics website, 2020-2023
- Association for Practical and Professional Ethics (APPE) Awards Subcommittee - Graduate Award Team Leader, 2020-2021
- Member of the IEEE Trust and Agency in AIS Committee, 2020-2021
- Member of the Expert Meeting on Artificial Intelligence in the Delivery of Health Care Services, U.S. Government Accountability Office (GAO), March 31 and April 1, 2020 (video meeting)
- Member of the Affective Computing Committee of The IEEE Global Initiative on Ethics of Autonomous and Intelligent Systems, 2017-2019
- Member of Wellbeing Metrics Standard for Ethical Artificial Intelligence and Autonomous Systems Working Group - IEEE P7010™, 2017-2018

#### **(V) LEADERSHIP POSITIONS**

- Association for Practical and Professional Ethics (APPE) Board of Directors member, 2021-2023
- Chair of the Association for Practical and Professional Ethics Research Integrity Scholars and Educators (APPE RISE) Consortium, 2021-2023
- Member of the Program Advisory Committee (PAC), Collaborative Institutional Training Initiative (CITI) Program, Biomedical Research Alliance of New York (BRANY), 2016-2023
- Co-Leader of the Science, Technology, Engineering, and Mathematics (STEM) Special Interest Section for the Association for Practical and Professional Ethics (APPE), 2017-2019
- Member of the Program Advisory Committee (PAC), Collaborative Institutional Training Initiative (CITI) Program, University of Miami, 2013-2016
- Member of the Executive Advisory Committee (EAC), Collaborative Institutional Training Initiative (CITI) Program, University of Miami, 2010-2013

#### **(VI) EDITORIAL ACTIVITIES**

- Founding Editorial Board Member of the Springer journal *AI and Ethics*, 2020-present
- International Editorial Advisory Board Member of the Springer journal *Science and Engineering Ethics*, 2020-present
- Editorial Board Member of the Taylor & Francis journal *Accountability in Research*, 2015-present
- Co-Editor of the Ethics and Information Technology section for the *Stanford Encyclopedia of Philosophy*, 2010-present
- Associate Editor of the Springer journal *Science and Engineering Ethics*, 2019-2020
- Editor for Research Ethics for the National Academy of Engineering's *Online Ethics Center*, 2017-2020
- Assistant Editor of the journal *Science and Engineering Ethics*, 2010-2019
- Leader of the Research Ethics Editorial Board for the National Academy of Engineering's *Online Ethics Center*, 2014-2017
- Member of the Engineering Ethics Editorial Board for the National Academy of Engineering's *Online Ethics Center*, 2014-2017
- Founder and Editor-in-Chief of *The Journal of Philosophy, Science & Law* (jpsl.org), 2001-2017

#### **(VII) GRANT PROPOSAL REVIEWS**

- Reviewer for the Traumatic Brain Injury Psychological Health Research Program (TBIPHRP) for the US Department of Defense Congressionally Directed Medical Research Programs (CDMRP), 2023
- Peer reviewed an application submitted to the 2022 Call for Postdoctoral Fellowships of the Research Foundation Flanders (FWO) for the European Science Foundation, 2023

- Reviewer for the Military Burn Research Program (MBRP) within the US Department of Defense Congressionally Directed Medical Research Programs (CDMRP), 2022
- Member of a National Science Foundation Advisory Panel, 2022
- Independently selected by the European Science Foundation-Science Connect to review a project submitted to the Clusters of Excellence (COE) Programme of the Austrian Science Fund (FWF), 2022
- Reviewer for the Medical Research and Development Command – Broad Agency Announcement (MRDC-BAA) within the Department of Defense Congressionally Directed Medical Research Programs (CDMRP), 2022
- Reviewer for the Traumatic Brain Injury and Psychological Health Research Program (TBIPHRP) within the Department of Defense Congressionally Directed Medical Research Programs (CDMRP), 2022
- Reviewer for the US Army Medical Research and Materiel Command (USAMRDC) Broad Agency Announcement, 2021
- Member of a National Science Foundation Advisory Panel, 2021
- Reviewer for the US Department of Defense’s FY20 Congressionally Directed Medical Research Programs (CDMRP) Peer Reviewed Orthopaedic Research Program, 2020
- Reviewer of a grant proposal for C3.ai Digital Transformation Institute: Mitigation of COVID-19 and Future Pandemics, 2020
- Member of a National Science Foundation Advisory Panel, 2020
- Reviewer of a grant proposal for the National Science Foundation, 2019
- Member of a grant proposal review panel for the US Department of Health and Human Services, Office of the Assistant Secretary for Health, Office of Research Integrity, Research on Research Integrity, 2019
- Member of a National Science Foundation Advisory Panel, 2018
- Member of a National Science Foundation Advisory Panel, 2017
- Reviewer of a grant proposal for the Templeton World Charity Foundation (TWCF), 2017
- Member of a National Institutes of Health Scientific Review Committee, 2012 (Raleigh-Durham-NC)
- Reviewer of a grant proposal for the National Science Foundation, 2011
- Reviewer of a grant proposal for the National Science Foundation, 2010
- Reviewer of a grant proposal for the National Science Foundation, 2008

#### **(VIII) BOOK PROPOSAL and MARKETING REVIEWS**

- Reviewer of a book proposal for Palgrave Macmillan, 2022
- Reviewer of a book proposal for CRC Press/Taylor and Francis, 2021
- Reviewer of a book proposal for Rowman & Littlefield International, 2019
- Reviewer of a book proposal for Routledge, 2017
- Reviewer of a book proposal for Elsevier, 2016
- Reviewer of a book proposal for The MIT Press, 2016
- Reviewer of a book proposal for The MIT Press, 2016
- Reviewer of a book proposal for Bloomsbury, 2015
- Reviewer of a book for Oxford University Press, 2015
- Reviewer of a book proposal for the American Psychological Association, 2015
- Reviewer of a book for Oxford University Press, 2014
- Reviewer of a book proposal for Wiley, 2012
- Reviewer of a book proposal for The MIT Press, 2012
- Reviewer of a book proposal for University of Michigan Press, 2012
- Reviewer of a book proposal for Oxford University Press, 2012
- Reviewer of a book proposal for Broadview Press, 2009

#### **(IX) MANUSCRIPT AND CONFERENCE PAPER REVIEWS**

- Reviewer of a manuscript for *Big Data & Society*, 2022 and 2023
- Reviewer of a manuscript for *MIS Quarterly*, 2022 and 2023
- Reviewer of two manuscripts for *AI and Ethics*, 2022
- Reviewer of a manuscript for *IEEE Consumer Electronics Magazine*, 2022
- Reviewer of abstracts for the *2022 Association for Practical and Professional Ethics (APPE) International Conference*, 2021
- Reviewer of an abstract for the *2022 ASEE Annual Conference - Engineering Ethics Division*, 2021
- Reviewer of a manuscript for *Journal of Artificial Intelligence Research*, 2021
- Reviewer of a manuscript for *International Journal of Social Robotics*, 2021 and 2022
- Reviewer of a manuscript for *Ethics and Information Technology*, 2021

- Reviewer of a manuscript for *Science and Engineering Ethics*, 2021
- Reviewer of manuscript for the *CEPE/IACAP Joint Conference 2021*, 2021
- Reviewer of an opinion piece for *AI and Ethics*, 2021
- Reviewer of a manuscript for *Transportation Research Part A*, 2020 and 2021
- Reviewer of a manuscript for *Minds and Machines*, 2020 and 2021
- Reviewer of abstracts for *CEPE/IACAP Joint Conference 2021: The Philosophy and Ethics of Artificial Intelligence*, 2021
- Reviewer of a manuscript for *Journal of Business Ethics*, 2020
- Reviewer of a manuscript for *Technology in Society*, 2020
- Reviewer of a manuscript for *AI and Ethics*, 2020
- Reviewer of a manuscript for *Ethical Theory and Moral Practice*, 2020
- Reviewer of a paper for *Robophilosophy 2020 Conference: Culturally Sustainable Robotics*, 2020
- Reviewer of a manuscript for *Synthese*, 2020
- Reviewer of a manuscript for *IEEE Transactions on Technology and Society*, 2020
- Reviewer of abstracts and papers for the *2020 ASEE Annual Conference - Engineering Ethics Division*, 2019 and 2020
- Reviewer of a manuscript for *Transactions on Human-Robot Interaction*, 2020
- Reviewer of a manuscript for *Science and Engineering Ethics*, 2019 and 2020
- Reviewer of a manuscript for *Accountability in Research*, 2019
- Reviewer of abstracts for the *2020 ASEE Annual Conference - Engineering Ethics Division*, 2019
- Reviewer of abstracts for the *2020 Association for Practical and Professional Ethics (APPE) International Conference*, 2019
- Reviewer of a manuscript for *Computers and Electronics in Agriculture*, 2019
- Reviewer of a manuscript for *Science and Engineering Ethics*, 2018 and 2019
- Reviewer of a manuscript for *The Journal of Sociotechnical Critique*, 2019
- Reviewer of a manuscript for *Science and Engineering Ethics*, 2019
- Reviewer of a manuscript for *Science and Engineering Ethics*, 2018 and 2019
- Reviewer of a manuscript for *Science and Engineering Ethics*, 2019
- Reviewer of abstracts and papers for the *2019 ASEE Annual Conference - Engineering Ethics Division*, 2018 and 2019
- Reviewer of a manuscript for *Transactions on Human-Robot Interaction*, 2019
- Reviewer of a manuscript for *Journal of Medical Ethics*, 2018 and 2019
- Reviewer of a manuscript for *Techné: Research in Philosophy and Technology*, 2018 and 2019
- Reviewer of a manuscript for *Science and Engineering Ethics*, 2018
- Reviewer of a manuscript for *International Encyclopedia of Ethics*, 2018
- Reviewer of a manuscript for *Science Communication*, 2018
- Reviewer of abstracts for the *2019 Association for Practical and Professional Ethics (APPE) International Conference*, 2018
- Reviewer of a manuscript for *Accountability in Research*, 2018
- Reviewer of a manuscript for *Science, Technology, and Human Values*, 2018
- Reviewer of a manuscript for *Science and Engineering Ethics*, 2018
- Reviewer of a manuscript for *Science and Engineering Ethics*, 2018
- Reviewer of a manuscript for *Science and Engineering Ethics*, 2018
- Reviewer of a manuscript for *Science and Engineering Ethics*, 2018
- Reviewer of a manuscript for *Proceedings of the IEEE*, 2017 and 2018
- Reviewer of a manuscript for *Science and Engineering Ethics*, 2018
- Reviewer of a manuscript for *BMJ Global Health*, 2018
- Reviewer of a manuscript for *Science and Engineering Ethics*, 2017
- Reviewer of a manuscript for *Accountability in Research*, 2017
- Reviewer of a manuscript for *IEEE Technology and Society Magazine*, 2017
- Reviewer of a manuscript for *Journal of Neural Engineering*, 2017
- Reviewer of a manuscript for *Ethics & Behavior*, 2017
- Reviewer of a manuscript for *Accountability in Research*, 2017
- Reviewer of a manuscript for *Journal of Clinical and Translational Science*, 2017
- Reviewer of a manuscript for *Science and Engineering Ethics*, 2017
- Reviewer of a manuscript for *Accountability in Research*, 2017
- Reviewer of a manuscript for *Communications of the ACM*, 2017
- Reviewer of two manuscripts for *Science and Engineering Ethics*, 2017
- Reviewer of a manuscript for *Transportation Research Part C*, 2017

- Reviewer of abstracts for the *2017 Association for Practical and Professional Ethics (APPE) International Conference*, 2016
- Reviewer of a manuscript for *Accountability in Research*, 2015 and 2016
- Reviewer of a manuscript for *International Journal of Social Robotics*, 2016
- Reviewer of a manuscript for *Science and Engineering Ethics*, 2016
- Reviewer of a manuscript for *Accountability in Research*, 2016
- Reviewer of a manuscript for *Accountability in Research*, 2016
- Reviewer of a manuscript for *Science and Engineering Ethics*, 2016
- Reviewer of a manuscript for *AI & Society*, 2016
- Reviewer of an abstract for the *2016 Association for Practical and Professional Ethics (APPE) International Conference*, 2015
- Reviewer of a manuscript for *Journal of Medical Ethics*, 2015
- Reviewer of two manuscripts for *Science and Engineering Ethics*, 2015
- Reviewer of a manuscript for *Accountability in Research*, 2015
- Reviewer of two manuscripts for *Science and Engineering Ethics*, 2015
- Reviewer of a manuscript for *Science and Engineering Ethics*, 2015
- Reviewer of a manuscript for *Ethics and Information Technology*, 2015
- Reviewer of a manuscript for *IEEE Technology and Society*, 2015
- Reviewer of a manuscript for *Science and Engineering Ethics*, 2014
- Reviewer of two manuscripts for *Science and Engineering Ethics*, 2014
- Reviewer of a manuscript for *Clinical Investigation*, 2014
- Reviewer of a manuscript for *Science Communication*, 2014
- Reviewer of two manuscripts for *Science and Engineering Ethics*, 2014
- Reviewer of a manuscript for *Neuroethics*, 2014
- Reviewer of a manuscript for *Science and Engineering Ethics*, 2014
- Reviewer of abstracts and papers for the *2014 ASEE Annual Conference - Engineering Ethics Division*, 2013 and 2014
- Reviewer of abstracts for the *2014 IEEE International Symposium on Ethics in Engineering, Science, and Technology*, 2013
- Reviewer of two manuscripts for *Science and Engineering Ethics*, 2013
- Reviewer of a National Academy of Engineering workshop proceeding entitled “Practical Guidance on Science and Engineering Ethics Education for Instructors and Administrators,” 2013
- Reviewer of a manuscript for *Journal of Applied Philosophy*, 2013
- Reviewer of a manuscript for *Science and Engineering Ethics*, 2013
- Reviewer of a manuscript for *Accountability in Research*, 2013
- Reviewer of a manuscript for *Philosophy & Technology*, 2013
- Reviewer of a manuscript for *Industrial Robot*, 2013
- Reviewer of a manuscript for *Science and Engineering Ethics*, 2013
- Reviewer of abstracts and papers for the *2013 ASEE Annual Conference - Engineering Ethics Division*, 2012 and 2013
- Reviewer of a manuscript for *Science and Engineering Ethics*, 2012
- Reviewer of a manuscript for *2013 IEEE International Conference on Robotics and Automation*, 2012
- Reviewer of two manuscripts for *Science and Engineering Ethics*, 2012
- Reviewer of abstracts and papers for the *2012 ASEE Annual Conference - Engineering Ethics Division*, 2011 and 2012
- Reviewer of a manuscript for the *Journal of Empirical Research on Human Research Ethics (JERHRE)*, 2011
- Reviewer of a manuscript for *Science Communication*, 2011
- Reviewer of a manuscript for *Science and Engineering Ethics*, 2011
- Reviewer of a manuscript for *Building Research & Information*, 2011
- Reviewer of a manuscript for *HKIE Transactions*, 2011
- Reviewer of a manuscript for *Minds and Machines*, 2011
- Reviewer of a manuscript for *Science & Education*, 2011
- Edited a manuscript for *Science and Engineering Ethics*, 2011
- Reviewer of a manuscript for *Public Affairs Quarterly*, 2010
- Reviewer of a manuscript for *Science and Engineering Ethics*, 2010
- Reviewer of a manuscript for *Science and Engineering Ethics*, 2010
- Reviewer of a manuscript for *Studies in Ethics, Law and Technology*, 2010
- Reviewer of a manuscript for *Kennedy Institute of Ethics Journal*, 2010
- Reviewer of a manuscript for *Human Reproduction and Genetic Ethics: An International Journal*, 2007

- Reviewer of a manuscript for *Science & Education*, 2006

**(X) OTHER EDITORIAL AND REVIEW ACTIVITIES**

- Reviewer of materials for the Grawemeyer Award for Ideas Improving World Order, 2022
- Member of the Program Committee for *AI & Society*'s "AI for People" Special Issue, 2021-2022
- Reviewer of a workshop proposal for the Canadian Institute for Advanced Research (CIFAR), 2017
- Consulting Editor, *Ethics, Science, Technology and Engineering: A Global Resource* (2nd Edition), edited by J. Britt Holbrook, Macmillian Reference USA, 2015
- Program Review Panel for Vanderbilt University's *Growing Research Integrity Together Conference*, 2015
- Expert reviewer for a grant project directed by PI Michael Mumford (University of Oklahoma) entitled "Course Characteristics and Criteria: Appraising the Effectiveness of RCR Educational Resources"; funded by the U.S. Office of Research Integrity (Award Number: ORI2014000039), 2015

**(XI) OTHER SERVICE ACTIVITIES**

- Developer for the Collaborative Institutional Training Initiative (CITI) Program, University of Miami, 2006-2012
- Participant at Emory University's *Clinical Ethics Seminars*, 2002-2006
- Supervised observer at University of Miami Ethics Committee meetings, 1998-2001
- Member of the University of Miami's Graduate Student Ethics Committee, 1998-2000

**CONSULTING**

Collaborative Institutional Training Initiative (CITI) Program  
 Biomedical Research Alliance of New York (BRANY), Lake Success, NY  
 University of Miami, Miami, FL

May 2016-January 2019  
 February 2012-April 2016

**Consultant for Responsible Conduct of Research (RCR)**

Projects and responsibilities for the CITI Program included:

- Recruited authors and coordinated peer reviews for the *RCR Basic and Refresher Courses*.
- Served as senior course manager for the *Conflicts of Interest (COI) Basic Course*; the course was designed to provide training on the U.S. Public Health Service's regulations on financial conflicts of interest.
- Served as senior course manager for the *Conflicts of Interest (COI) Refresher Course*; the course was designed to provide retraining on the PHS regulations on financial conflicts of interest.
- Being the editor for a book entitled *RCR for Engineering: An Introduction to Ethics and Engineering Research*.
- Served as a reviewer and editor for a book entitled *Conflicts of Interest (COI) Guide: An Introduction to U.S. Public Health Service (PHS) Regulations and Conflicts of Commitment*.

University of Miami, Miami, FL

various times from 2001 to 2006

**Ethics Consultant**

Responsibilities included developing content for the University of Miami's Ethics Programs' *Geriatrics and Ethics Project*, an on-line community health education program offered by the Veterans Affairs Medical Center, Geriatric Research Education Center.

**GRADUATE STUDENT SUPERVISION**

**(I) DOCTORAL DISSERTATION COMMITTEES**

- Committee member for De' Aira Bryant, School of Interactive Computing, Georgia Tech, 2023-present
- Committee member for Yosef Razin, School of Aerospace Engineering, Georgia Tech, 2018-present
- Committee member for Daniel Schiff, School of Public Policy, Georgia Tech, 2021-2022

**(II) MASTER'S THESIS COMMITTEES**

- Committee member for Thomas Hitron, Human-Robot Interaction, Reichman University (Israel), 2023

### **(III) GRADUATE RESEARCH ASSISTANTS**

- Grace Barkhuff, doctoral student, School of Interactive Computing, Georgia Tech, NSF Ethical and Responsible Research project, 2022
- Kera Allen, doctoral student, School of Literature, Media, and Communication, Georgia Tech, NSF Ethical and Responsible Research project, 2022
- Yosef Razin, doctoral student, School of Aerospace Engineering, Georgia Tech, NSF AI Institute (AI-CARING), 2022
- Quintin Kreth, doctoral student, School of Public Policy, Georgia Tech, NSF Cultivating Cultures for Ethical STEM project, 2021-2022
- Daniel Schiff, doctoral student, School of Public Policy, Georgia Tech, NSF Cultivating Cultures for Ethical STEM project, 2018-2022
- Emma Logevall, Master's student, College of Computing, Georgia Tech
  - Mozilla Responsible Computer Science project, 2019-2020
  - NSF Cultivating Cultures for Ethical STEM project, 2019
- Alexandra Erwin, Master's student, City Planning-School of Public Policy, Georgia Tech, NSF Cultivating Cultures for Ethical STEM project, 2017-2018