

Eric B. Kennedy

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Consortium for Science, Policy & Outcomes
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Education

PhD in Human & Social Dimensions of Science & Technology, Consortium for Science, Policy & Outcomes, Arizona State University. Current student, expected May 2018.

Bachelor of Knowledge Integration, Honours (Philosophy minor, International Studies option), University of Waterloo, 2012.

Research Interests

- Sociology of science, knowledge, and expertise
- Public engagement in science, governance, and decision making
- Social epistemology and knowledge systems analysis
- Stakeholder engagement and citizen science
- Resilient infrastructure and energy systems
- Qualitative research methods and program evaluation

Academic Awards

- 2014 Equinox Fellow, Waterloo Global Science Initiative. *Awarded as a top under-30 leader on global education challenges.*
- 2014 Graduate Excellence Award, College of Liberal Arts & Sciences, Arizona State University. *Awarded for outstanding academic achievements and receiving external funding.*
- 2012 Alumni Gold Medal, University of Waterloo. *Top graduating student in faculty by academic achievement, intellectual contributions, and institutional & community service.*
- 2012 Knowledge Integration Academic Achievement Award, University of Waterloo. *Top graduating student in program by academic achievement, intellectual contributions, and institutional & community service.*
- 2008–2012 Dean's Honours List, University of Waterloo. *Awarded for A-level performance; received every term and conferred on degree.*

Publications

Books

Cavalier, D. & Kennedy, E. B. (Eds.) (2016). *The Rightful Place of Science: Citizen Science*. Tempe: Consortium for Science, Policy & Outcomes.

Peer-Reviewed Articles

Kennedy, E. B. (2015). Voting by quiz: Online algorithms and election education. *Engaging Science, Technology, and Society*, 1, 73-78.

Kennedy, E. B., & Ho, J. (2015). Discursive diversity in introductory environmental studies. *Journal of Environmental Studies and Sciences*, 5(2), 200-206.

- Fisher, E., O'Rourke, M., Evans, R., Kennedy, E. B., Gorman, M. E. & Seager, T. P. (2015). Mapping the integrative field: taking stock of socio-technical collaborations. *Journal of Responsible Innovation*, 2(1), 39-61.
- Plaisance, K. S., & Kennedy, E. B. (2014). A pluralistic approach to interactional expertise. *Studies in History and Philosophy of Science Part A*, 47, 60-68.

Other Academic Articles

- Kennedy, E. B. (2016). Book Review: The Climate Resilient Organization: Adaptation and Resilience to Climate Change and Weather Extremes by Martina K. Linnenluecke and Andrew Griffiths. *Science and Public Policy*, online first.
- Jensen, E. A., Kennedy, E. B. & Verbeke, M (2015). Outreach: Science festivals preach to the choir (Correspondence). *Nature*, 528, 193.

Book Reviews

- Kennedy, E. B. (2016). Review of the book *The Climate Resilient Organization: Adaptation and Resilience to Climate Change and Weather Extremes* by Martina K. Linnenluecke and Andrew Griffiths. *Science and Public Policy*, online first.

Book Chapters

- Kennedy, E. B. (2016). "When Citizen Science Meets Science Policy." In Cavalier, D. & Kennedy, E. B. (Eds.), *The Rightful Place of Science: Citizen Science*, 21-50. Tempe: Consortium for Science, Policy & Outcomes.
- Kennedy, E. B. & Cavalier, D. (2016). "The Age of Citizen Science." In Cavalier, D. & Kennedy, E. B. (Eds.), *The Rightful Place of Science: Citizen Science*, 117-126. Tempe: Consortium for Science, Policy & Outcomes.
- Kennedy, E. B. & Ross, H. M. (2014). "Electric vehicle development and battery technology." In Sarewitz, D. (Ed.), *The Rightful Place of Science: Government and Energy Innovation*, 123-152. Tempe: Consortium for Science, Policy & Outcomes.

Conference Proceedings

- Kennedy, E. B. & Becker, J. (2012). "Collaborative communication: Epistemic perspectives on aboriginal-western scientific collaboration in Canada." *Proceedings of the Knowledge Integration Symposium 2011-2012*, 29-31.

Contributor to Reports

- Brooks, M. & Holmes, B. (2014). "Equinox Blueprint: Learning 2030." *Waterloo Global Science Initiative*. <http://wgsi.org/equinox-summit/equinox-summit-learning-2030>

Selected Public Writing & Blogging

- Kennedy, E. B. (October 2, 2013). "Redesigning the future of education." *As We Now Think*. <http://aswenowthink.wordpress.com/2013/10/02/redesigning-the-future-of-education/>
- Kennedy, E. B. (January 16, 2013). "China's national innovation system: Learning from a holistic, national approach." *The Breakthrough Institute*. <http://thebreakthrough.org/index.php/programs/economic-growth/chinas-national-innovation-system/>
- Kennedy, E. B. (November 9, 2012). "Can NASA innovate its way into the future?" *As We Now Think*. <http://aswenowthink.wordpress.com/2012/11/09/can-nasa-innovate-its-way-into-the-future/>

Invited Talks

- Kennedy, E. B. July 17, 2015. "Water, Collaboration, and Climate Futures in Arizona." *Shad Valley International*, Waterloo, Canada.

- Kennedy, E. B. March 7, 2014. Expertise, education, and innovation: Global conversations for a Chinese context. *Chinese visiting scholars colloquium*. Lecture conducted from Arizona State University, Tempe, USA.
- Brooks, Michael (Panel Chair); Erin Millar; Eric B. Kennedy; and Sandra Scott. March 3, 2014. Learning 2030: Year of teacher education. Panel conducted from University of British Columbia, Vancouver, Canada.
- Kennedy, E. B. June 21, 2013. Investigating & Implementing Interdisciplinary: North American Perspectives in the Tasmanian Context. *Science for Society & Policy Seminar Series*. Lecture conducted from Tasmanian Agricultural Institute, University of Tasmania, Hobart, Australia.
- Kennedy, E. B. March 12, 2013. Creating a taxonomy of motivational diversity among experts. *Undergraduate interdisciplinary class*. Lecture conducted from University of Waterloo, Waterloo, Canada.
- Kennedy, E. B. February 13, 2013. China's National Innovation System and American Policy Imaginations. *Graduate science policy class*. Lecture conducted from Arizona State University, Tempe, USA.
- Kennedy, E. B. December 5, 2012. Opportunities in Knowledge Systems Analysis research and practice. *Knowledge to Action Workshop*. Lecture conducted for Canadian Polar Commission, Ottawa, Canada (lecture by video).
- Kennedy, E. B. November 29, 2011. Interactional expertise and expert diversity. *Undergraduate epistemology class*. Lecture conducted from University of Waterloo, Waterloo, Canada.
- Kennedy, E. B. March 22 & 24, 2011. Introduction to the epistemology of collaboration and Diversity & performance in collaboration. *Undergraduate epistemology class*. Lecture conducted from University of Waterloo, Waterloo, Canada.

Invited Teaching

- Kennedy, E. B. June 22, 2016. "Introduction to Science Policy & Risk." Workshop (4.5hr) for new Breakthrough Generation Fellows cohort. Breakthrough Institute, Oakland, USA.
- Jensen, E. & Kennedy, E. B. May 24, 2016. "Introduction to Questionnaire Design and Impact Evaluation." Workshop (3.5hr) for Methods for Change. London, England.
- Kennedy, E. B & Jensen, E. May 23, 2016. "Gentle Introduction to Science Communication and Public Engagement Evaluation." Workshop (3.5hr) for Methods for Change. London, England.
- Jensen, E. & Kennedy, E. B. April 25, 2016. "Introduction to Science Communication Evaluation." Workshop (2hr) for conference attendees. Public Communication of Science & Technology Conference, Istanbul, Turkey.
- Jensen, E. & Kennedy, E. B. April 22, 2016. "How to Analyze Qualitative Interview Data." Workshop (3.5hr) for Methods for Change. London, England.
- Jensen, E. & Kennedy, E. B. April 20, 2016. "Design and Conduct Qualitative Interviews." Workshop (3.5hr) for Methods for Change. London, England.
- Kennedy, E. B. June 17, 2015. Introduction to Science Policy. Workshop (4hr) for new Breakthrough Generation Fellows cohort. Breakthrough Institute, Oakland, USA.

Conference Presentations

- Proctor, J.; Bernstein, J. & Kennedy, E. B. June 22, 2015. "Can Environmental Education be Saved?" *Breakthrough Dialogue*. Sausalito, USA.
- Changdeok, G.; Miller, C. A.; Clark, S. S.; Ruddell, B. & Kennedy, E. B. May 17, 2016. "Institutions in Critical Infrastructure Resilience: The Role and Layering of Institutions in Coupled Water-Energy Systems (in Arizona)." *International Symposium on Sustainable Systems and Technology*, Phoenix, USA.
- Kurtz, L. C. & Kennedy, E. B. March 30, 2016. "Fires, Floods, and Uncertainty: The Nexus of Disaster Management Practice and Scientific Research." *Society for Applied Anthropology*, Vancouver, Canada.

- Kennedy, E. B. (Panel Chair); Maynard, A. (Discussant); Burnam-Fink, M.; Ross, H. & Richter, J. November 13, 2015. "Wherefore Disaster: Rethinking Charles Perrow's Normal Accidents after 30 Years." *The Society for the Social Studies of Science Annual Meeting*, Denver, USA.
- Kennedy, E. B. November 13, 2015. "Civil Aviation as a Framework for Managing High Risk Technologies." *The Society for the Social Studies of Science Annual Meeting*, Denver, USA.
- Proctor, J.; Bernstein, J.; Nisbet, M; Kennedy, E. B.; Ho, J. June 22, 2015. "Can Environmental Education be Saved?" *Breakthrough Dialogue*. Sausalito, USA.
- Clark, S. S.; Gim, C.; Miller, C.; Eisenberg, D.; Kennedy, E. B. & Thomas, J. May 19, 2015. "Institutional Resilience of Coupled Water and Energy Systems." *International Symposium on Sustainable Systems and Technologies*, Dearborn, USA.
- Kennedy, E. B. May 19, 2015. "Operationalizing, measuring & analyzing knowledge systems." *International Symposium on Sustainable Systems and Technologies*, Dearborn, USA.
- Kennedy, E. B. May 8, 2015. "Expertise shift, interactive/reflective ability, and the imitation game." *SEESHOP (Studies of Expertise and Experience Workshop)*, Cardiff, Wales.
- Kennedy, E. B. June 11, 2014. "'Interacting Interestingly' Among Communities of Integration." *Communities of Integration*, Waterloo, Canada.
- Kennedy, E. B. May 7, 2014. "Communication, facilitation, and public/policy engagement with science: For-profit consulting firms as boundary organizations." *13th International Public Communication of Science and Technology Conference*, Salvador, Brazil.
- Kennedy, E. B. October 10, 2013. "Knowledge Systems Analysis as a tool for facilitating cross-domain collaboration." *The Society for the Social Studies of Science Annual Meeting*, San Diego, USA.
- Kennedy, E. B. & Fisher, E. September 10, 2013. "Sociotechnical Integration." *The First Global Conference on Research Integration & Implementation*, The Australian National University, Canberra, Australia.
- Kennedy, E. B. April 5, 2013. "Interactions among experts: Creating a theory that takes diversity seriously." *STGlobal Graduate Student Conference 2013*, Washington, USA.
- Plaisance, Kathryn; Fehr, C.; Whyte, K. P. & Kennedy, E. B. (Panel Chair). March 15, 2013. "Socially Relevant Philosophy of Science (SRPOS): Scientific knowledge mobilization across communities." *Advancing Publicly Engaged Philosophy*, Atlanta, USA.
- Kennedy, E. B. & Plaisance, K. June 9, 2012. "A pluralistic approach to interactional expertise." *SEESHOP (Studies of Expertise and Experience Workshop)*, Cardiff, Wales.
- Kennedy, E. B. January 21-22, 2012. "Challenging epistemic failure: Critical thinking, collaboration, trust, and expertise." Two-day (6 hour) workshop. *Combining Two Cultures National Interdisciplinary Conference*, Waterloo, Canada.

Conference Posters

- Kennedy, E. B. & Kurtz, L. C. April 27, 2016. "Climate, Floods, and Forest Fires: Expert Communication About Uncertainty & Complexity." *Public Communication of Science & Technology*, Istanbul, Turkey.
- Kennedy, E. B.; Miller, C.; Spierre Clark, S.; Gim, C. & Eisenberg, D. May 19, 2015. "Improving resilience through knowledge systems analysis." *International Symposium on Sustainable Systems and Technologies*, Dearborn, USA.
- Kennedy, E. B. & Kurtz, L. C. February 15, 2015. "Floods and forest fires: Understanding the (mis)alignment of research & needs." *American Association for the Advancement of Science (AAAS) Annual Meeting*, San Jose, USA.
- Kennedy, E. B. February 15, 2014. "Improved water management through knowledge systems analysis, simulation, and decision support." *American Association for the Advancement of Science (AAAS) Annual Meeting*,

Chicago, USA. [Also presented at the Decision Center for a Desert City Annual Poster Symposium, April 28, 2014, Arizona State University, Tempe, USA.]

Kennedy, E. B. & Erik Fisher. September 8, 2013. "Communities of Practice: Sociotechnical Integration (CoPSI)." *The First Global Conference on Research Integration & Implementation*, The Australian National University, Canberra, Australia.

Kennedy, E. B. April 20, 2012. "Scientific collaboration with Canadian Aboriginal communities: Epistemic lessons in communication and responsibility." *Public Communication of Science and Technology Conference*, Florence, Italy.

Kennedy, E. B. March 30, 2012. "Collaborative communication: Epistemic perspectives on aboriginal-western scientific communication in Canada." *Knowledge Integration Symposium*, Waterloo, Canada.

Research Experience

- 2015 – Graduate Research Assistant, Consortium for Science, Policy & Outcomes, Arizona State University. *Conducting research and publishing on resilience, water and energy systems, climate change, institutional knowledge systems, and governance; supervised by Dr. Clark Miller & Dr. Thomas Seager.*
- 2014 Breakthrough Generation Fellow, The Breakthrough Institute. *Conducted research on economic growth and innovation through public-private partnerships.*
- 2013 – 2015 Graduate Research Assistant, Decision Center for a Desert City, Arizona State University. *Conducting research and publishing on knowledge systems, decision making, and anticipatory environmental governance; supervised by Dr. Dave White & Dr. Clark Miller.*
- 2011 – 2012 Research Assistant, Centre for Knowledge Integration, University of Waterloo. *Conducted research on expertise and interdisciplinarity; presented work at international workshop and in classes; supervised by Dr. Kathryn Plaisance.*
- 2011 – 2012 Senior Honours Thesis, Bachelor of Knowledge Integration, University of Waterloo. *Epistemological investigation of Canadian Indigenous and scientist collaboration; accepted for conference presentation; supervised by Jean Becker (Sr. Advisor, Aboriginal Initiatives, Wilfrid Laurier University).*
- 2011 Communications Intern, Pew Forum on Religion and Public Life, Pew Research Center. *Collaborated with researchers to identify stakeholders and communicate research findings to broad audiences; developed communications strategy, distribution lists, and public releases for research projects.*

Teaching Experience

- 2016 (Summer) Faculty, Science Outside the Lab – North. *Co-founded, co-designed, and co-taught a seven day immersive short course on science policy, decision making, and science education in Ottawa, Ontario and Montréal, Québec.*
- 2015 (Summer) Teaching Assistant, Science Outside the Lab, Arizona State University. *Supervised by Dr. Ira Bennett, assisted with facilitating and running a two-week intensive summer class on science policy, governance, and decision making in Washington, D.C.*
- 2015 (Spring) Teaching Assistant, ASB344 Technology & Society, Arizona State University. *Supervised by Dr. Jameson Wetmore, assisted with teaching and grading a 125-student undergraduate introduction to science, technology, and society; instructed a 25-student seminar section.*
- 2013 (Fall) Co-convenor, HSD591 Readings in Social Construction of Technology & Society, Arizona State University. *Co-founded a student-directed one-credit graduate reading seminar for selected topics in science & society; developed inaugural syllabus and reading list; convened & facilitated 15 week course on the social construction of technology & society.*

- 2013 (Fall) Chair, HSD610 Human and Social Dimensions of Science and Technology Graduate Student Colloquium, Arizona State University. *Co-developed a four-term curriculum & student leadership program for professional development of PhD students; convened and facilitated 15 week for-credit colloquium, inviting guest speakers, convening panels, and organizing instruction on academic reading & writing skills.*
- 2009 – 2012 Instructor, Shad Valley National Enrichment Program, University of Waterloo. *Prepare and deliver several lectures, workshops, and small group sessions each July to exceptional high school students (past topics include social epistemology, expertise, collaboration, and social innovation).*
- 2010 – 2011 Teaching Assistant, Department of Peace and Conflict Studies, University of Waterloo. *Developed curriculum, coursework, and assessment for new Digital Communication Projects; instructed, mentored, and supervised approximately 40 students in classes and individually; graded projects.*

Fellowships & Scholarships

- 2015 – 2018 Doctoral Fellowship, Social Studies & Humanities Research Council
- 2012 – 2013 University Recruitment Fellowship, Arizona State University
- 2012 – 2013 Presidential Fellowship, University of Notre Dame (*declined*)
- 2012 – 2013 Joseph-Armand Bombardier Canada SSHRC Graduate Scholarship (*declined*)
- 2012 – 2013 Graduate Scholarship, York University (*declined*)
- 2012 – 2013 Ontario Graduate Scholarship, Government of Ontario (*declined*)
- 2011 – 2012 President's Research Award, University of Waterloo
- 2010 President's International Experience Award, University of Waterloo
- 2008 – 2010 Waterloo County Entrance Scholarship, University of Waterloo
- 2008 President's Scholarship of Distinction, University of Waterloo
- 2008 Walter A. Bean Community Foundation Scholarship, University of Waterloo
- 2008 Knowledge Integration Entrance Scholarship

Grants & Travel Awards

- 2015 – 2016 Conference Travel Awards, including from the Graduate and Professional Student Association and Graduate College, Arizona State University.
- 2015 Group Travel Award (\$2,100), lead author, Graduate and Professional Student Association, Arizona State University.
- 2014 – 2015 Conference Travel Awards, including from the Graduate and Professional Student Association and Graduate College, Arizona State University.
- 2014 Group Travel Award (>\$3,500), lead author, Graduate and Professional Student Association, Arizona State University.
- 2013 – 2014 Conference Travel Awards, including from the Graduate and Professional Student Association, Graduate College, and School of Life Sciences, Arizona State University.
- 2012 – 2013 Conference Travel Awards, including from the Graduate and Professional Student Association and the School of Life Sciences, Arizona State University.
- 2012 – 2013 Graduate Research Support Program Grant, Graduate and Professional Student Association, Arizona State University.

- 2012 Dean's Conference Presentation Award, Faculty of Environment, University of Waterloo.
- 2012 Conference Travel Award, Waterloo Environment Student Endowment Fund, University of Waterloo.

Institutional Service

- 2014 – Committee Member (2014 –); Secretary (2014 –), Communities of Integration Steering Committee.
- 2013 – 2014 Co-Chair, Graduate Colloquium, Consortium for Science, Policy & Outcomes, Arizona State University.
- 2012 – Co-Director (2013 – 2015), Steering Committee Member (2012 –), Graduates in Integrative Society and Environmental Research Association, Arizona State University.
- 2012 – 2013 Student Representative, Consortium for Science, Policy & Outcomes Faculty Committee, Arizona State University.
- 2008 – 2011 Volunteer, Undergraduate Recruitment, University of Waterloo.
- 2008 – 2009 Founding Vice President, Knowledge Integration Student Society, University of Waterloo.

Conferences Organized

- 2014 *Communities of Integration: Sociotechnical Integration Workshop*. June 9-12, Waterloo, Canada. Event co-organizer.
- 2013 *Communities of Integration: Sociotechnical Integration Workshop*. May 19-24, Tempe, USA. Event co-founder & co-organizer; leader of core writing group.

Peer Reviewing

Journals including Public Understanding of Science; Environmental Science & Policy; International Journal of the Commons; Erudito.

Granting programs including Graduate & Professional Student Association at Arizona State University (Travel Grant; Group Travel Grant; JumpStart Research Grant, 2012 –); Graduates in Integrative Society & Environmental Research Association (Research Grants 2012 – 2014).

Community Service

- 2014 – Evaluation Consultant (pro bono) & Development Committee Member, SmartRoots Global (start-up environmental education not-for-profit).
- 2012 – Emergency Communications Officer (2012 – present); Deputy Chief (2013 – 2014), Student Emergency Medical Services, Arizona State University.
- 2009 – 2013 Board Member (2009 – 2013); Acting Chair of Board (2011 – 2012), DaCapo Chamber Choir Board of Directors.
- 2008 – 2012 Emergency Medical Responder (2008 – 2012); Operations Coordinator (2012); Executive Board Member (2011, 2009), Campus Response Team, University of Waterloo.
- 2008 – 2012 Technical Director, A Cappella Ensembles, University of Waterloo.
- 2011 – 2012 Co-Organizer, New Orleans Spring Break Service & Learning Trip, Conrad Grebel University College.
- 2010 Co-Organizer, Haitian Earthquake Relief Benefit Concert, Conrad Grebel University College.

- 2006 – 2008 Co-Founder & Co-Chair, Waterloo Region Student Music Council
2006 Co-Organizer & Host, Kitchener-Waterloo Symphony Benefit Fundraising Concert & Gala.

Community & Leadership Awards

- 2013 Honorary Lifetime Member, Campus Response Team, University of Waterloo.
2011 Spirit of Generosity Award (co-recipient), Mennonite Foundation of Canada.
2011 George & Louise Schroeder Residence Award, Conrad Grebel University College.
2010 Spirit of Generosity Award (co-recipient), Mennonite Foundation of Canada.
2010 Good Foundation Scholarship, Conrad Grebel University College.
2009 Dean's Residence Award, Conrad Grebel University College.
2008 Leading Edge Award (co-recipient with Patrick Murray), Kitchener-Waterloo Arts Awards.
2008 Arts Advocacy Award (co-recipient with Patrick Murray), Lyrical Lines Foundation.
2008 Millennium Scholarship, City of Waterloo