

Stefan Helmreich
Curriculum Vitae

Anthropology
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Academic Positions

- 2014- Head, Anthropology, School of Humanities, Arts, and Social Sciences, Massachusetts Institute of Technology.
2011- Elting E. Morison Professor, Anthropology, School of Humanities, Arts, and Social Sciences, Massachusetts Institute of Technology.
2004-10 Associate Professor, Anthropology, Massachusetts Institute of Technology.
2003-04 Assistant Professor, Anthropology, Massachusetts Institute of Technology.
2002-03 Visiting Scholar, Pitzer College, Claremont University Consortium.
1999-2002 Assistant Professor, Science and Society, John W. Draper Interdisciplinary Master's Program in Humanities and Social Thought, New York University.
1997-99 Lecturer, Anthropology, Stanford University Program in Cultures, Ideas, Values.
1996-97 Rockefeller Foundation Humanities External Faculty Fellow, Center for Critical Analysis of Contemporary Culture, Rutgers University.
1995-96 Postdoctoral Associate, Science and Technology Studies, Cornell University.
1991-92 Teaching Assistant for Human Prehistory and Human Origins, Anthropology, Stanford University.
1987-89 Biological Anthropology Tutor, UCLA, Affirmative Action Program.

Education

- 1995 Ph.D., Anthropology, Stanford University
1992 M.A., Anthropology, Stanford University
1989 B.A., Anthropology, University of California at Los Angeles, *summa cum laude*

Selected Academic Honors, Awards, and Fellowships

- 2016 Frank E. Perkins Award for Excellence in Graduate Advising, MIT.
2015 Alex and Brit d'Arbeloff Award, to fund "The Meaning of Life," an MIT undergraduate subject in Anthropology (with Graham Jones and Heather Paxson).
2014 Lewis Henry Morgan Lecturer, Department of Anthropology, University of Rochester, Rochester, New York, October 22-24.
2014 Alex and Brit d'Arbeloff Award, to fund "Resonance: Sonic Experience, Science, and Art," a Fall 2014 MIT undergraduate and graduate subject in Architecture and in Anthropology (with Caroline Jones).
2010 Institute for Advanced Studies Distinguished Fellowship, Durham University, and Prowse Fellowship, Van Mildert College, Durham, United Kingdom.
2009 Andrew W. Mellon Foundation Grant to fund "Sensing the Unseen," a 2010-2011 Sawyer Seminar on the Comparative Study of Cultures (with Heather Paxson).
2009 James A. and Ruth Levitan Award for Excellence in Teaching in the School of Humanities, Arts, and Social Sciences, MIT.
2006 MIT's James A. and Ruth Levitan Research Prize in the Humanities.
2003 Individual Research Grant. Wenner-Gren Foundation for Anthropological Research.
1995 Nicholas Mullins Award for Outstanding Graduate Scholarship in Science and Technology Studies, Society for Social Studies of Science.
1994 Dissertation Resident Fellowship at the Stanford Humanities Center.
1993 National Science Foundation Doctoral Dissertation Research Improvement Grant.
1992 Robert Bayard Textor Award for Outstanding Anthropological Creativity.
1990 National Science Foundation Graduate Research Fellowship.

Publications

Books

- 2016 *Sounding the Limits of Life: Essays in the Anthropology of Biology and Beyond*, with co-authored contributions from Sophia Roosth and Michele Friedner. Princeton: Princeton University Press. eBook features color images. Audio/music examples at <http://press.princeton.edu/audio/helmreich/>
- 2016 Michelle Kendrick Book Prize, Society for Literature, Science & the Arts
- 2009 *Alien Ocean: Anthropological Voyages in Microbial Seas*. Berkeley: University of California Press.
- 2017 J. I. Staley Prize, School for Advanced Research
2012 Rachel Carson Book Prize, Society for Social Studies of Science
2010 Senior Book Prize, American Ethnological Society
2010 Gregory Bateson Book Prize, Society for Cultural Anthropology
- 1998 *Silicon Second Nature: Culturing Artificial Life in a Digital World*. Berkeley: University of California Press (Updated Paperback Edition with a New Preface, 2000).
- 2001 Diana Forsythe Book Prize, Committee on the Anthropology of Science, Technology & Computing, American Anthropological Association

Articles in Refereed Journals

- 2017 [The Genders of Waves](#). *WSQ: Women's Studies Quarterly* 45 (1&2): 29-51.
- 2016 [Gravity's Reverb: Listening to Space-Time, or Articulating the Sounds of Gravitational-Wave Detection](#). *Cultural Anthropology* 31(4):464-492.
- 2014 [Homo microbis: The Human Microbiome, Figural, Literal, Political](#). *Thresholds* 42: 52-59.
- 2014 [The Perils and Promises of Microbial Abundance: Novel Natures and Model Ecosystems, from Artisanal Cheese to Alien Seas](#) (with Heather Paxson). *Social Studies of Science* 44(2):165-193.
- 2013 [Potential Energy and the Body Electric: Cardiac Waves, Brain Waves, and the Making of Quantities into Qualities](#). *Current Anthropology* 54, Supplement 7: 139-148.
- 2013 [The Anthropology of Potentiality in Biomedicine: An Introduction to Supplement 7](#) (with Karen-Sue Taussig and Klaus Hoeyer). *Current Anthropology* 54, Supplement 7:3-14.
- 2012 [Extraterrestrial Relativism](#). In "Extreme: Humans at Home in the Cosmos," Debora Battaglia, David Valentine, and Valerie Olson, eds., special collection in *Anthropological Quarterly* 85(4):1127-1141.
- To be reprinted in *Futures and Fictions*. Henriette Gunkel, Ayesha Hameed, and Simon O'Sullivan, eds. London: Repeater Books.

- 2012 [Sound Studies Meets Deaf Studies](#) (with Michele Friedner). *The Senses & Society* 7(1):72-86.
- Reprinted in *The Auditory Culture Reader*, second edition. Michael Bull and Les Back, eds. Pp. 87-98. London: Bloomsbury, 2016.
- Reproduced in connection with *WITHIN/Infinite Ear: Deaf Experience and the Transformation of Hearing*, the Bergen Triennial, Norway, September 2016: http://www.formsofcouncil.org/en/inquiries/30_tacet/75_sound_studies_meet_deaf_studies
- 2011 [From Spaceship Earth to Google Ocean: Planetary Icons, Indexes, and Infrastructures](#). In “The Image,” special issue of *Social Research* 78(4):1211-1242.
- 2011 [What Was Life? Answers from Three Limit Biologies](#). *Critical Inquiry* 37(4):671-696.
- 2011 [Nature/Culture/Seawater](#). *American Anthropologist* 113(1):132-144.
- Reprinted as “Nature/Culture/Seawater: Theory Machines, Anthropology, Oceanization” in *Environmental Humanities: Voices from the Anthropocene*. Serpil Oppermann and Serenella Iovino, eds. Pp. 217-235. Lanham, MD: Rowman and Littlefield, 2016.
- Honorable Mention, 2012 Prize for Exemplary Cross-Field Scholarship, American Anthropological Association.
- 2010 [Human Nature at Sea](#). *Anthropology Now* 2(3):49-60.
- 2010 [The Emergence of Multispecies Ethnography](#) (with S. Eben Kirksey, co-editor of special issue on “Multispecies Ethnography”). *Cultural Anthropology* 25(4):545-575.
- Japanese translation underway for 現代思想.
- 2010 [Life Forms: A Keyword Entry](#) (with Sophia Roosth). *Representations* 112:27-53.
- 2008 [Species of Biocapital](#). *Science as Culture* 17(4):463-478.
- To be reprinted with a postscript by Nicole Labruto in *Handbook of Biology and Society*. Maurizio Meloni, John Cromby, Des Fitzgerald, and Stephanie Lloyd, eds. London: Palgrave, 2017.
- 2007 [An Anthropologist Underwater: Immersive Soundscapes, Submarine Cyborgs, and Transductive Ethnography](#). *American Ethnologist* 34(4):621-641.
- Reprinted in *The Sound Studies Reader*, Jonathan Sterne, ed. Pp. 168-185. New York: Routledge, 2012.
- Reprinted in *Anthropology of the Arts: A Reader*. Gretchen Bakke and Marina Peterson, eds. Pp. 181-191. London: Bloomsbury Academic, 2016.

- Portuguese translation as “Um antropólogo debaixo d’água: Paisagens sonoras imersivas, ciborgues submarinos e etnografia transdutora.” *Caderno Eletrônico de Ciências Sociais* 3(1)(2016):174-214 (Portuguese translation by American Journal Experts), <http://periodicos.ufes.br/cadecs/article/view/12280>
- 2007 [Blue-Green Capital, Biotechnological Circulation and an Oceanic Imaginary: A Critique of Biopolitical Economy](#). *BioSocieties* 2(3):287-302.
- 2007 [“Life is a Verb”: Inflections of Artificial Life in Cultural Context](#). *Artificial Life* 13(2):189-201.
- 2006 [The Signature of Life: Designing the Astrobiological Imagination](#). *Grey Room* 23(4):66-95.
- 2006 [Time and the Tsunami](#). In “Water: Resources & Discourses,” Justin M. Scott Coe and W. Scott Howard, eds., special issue of *Reconstruction: Studies in Contemporary Culture* 6(3):<http://reconstruction.eserver.org/063/helmreich.shtml>
- 2005 [How Scientists Think; About ‘Natives,’ for Example: A Problem of Taxonomy among Biologists of Alien Species in Hawaii](#). *The Journal of the Royal Anthropological Institute, Incorporating MAN* 11(1):107-127.
- 2003 [A Tale of Three Seas: From Fishing through Aquaculture to Marine Biotechnology in the Life History Narrative of a Marine Biologist](#). *Maritime Studies* 2(2):73-94.
- 2003 [Trees and Seas of Information: Alien Kinship and the Biopolitics of Gene Transfer in Marine Biology and Biotechnology](#). *American Ethnologist* 30(3):340-358.
- 2001 [After Culture: Reflections on the Apparition of Anthropology in Artificial Life, a Science of Simulation](#). *Cultural Anthropology* 16(4):613-628.
- Reissued in 2012 in a virtual issue of *Cultural Anthropology* on ethnographies of science, accompanied by Carlo Caduff interview with author:
<http://www.culanth.org/supplementals/127-ethnographies-of-science-conversation-with-the>
- 2001 [Artificial Life, Inc.: Darwin and Commodity Fetishism from Santa Fe to Silicon Valley](#). *Science as Culture* 10(4):483-504.
- 2000 [Flexible Infections: Computer Viruses, Human Bodies, Nation-States, Evolutionary Capitalism](#). *Science, Technology, and Human Values* 25(4):471-490.
- 2000 [Power/Networks: A Rejoinder to Lansing](#). *Critique of Anthropology* 20(3):319-327.
- 1999 [Digitizing “Development”: Balinese Water Temples, Complexity, and the Politics of Simulation](#). *Critique of Anthropology* 19(3):249-266.
- 1998 [Recombination, Rationality, Reductionism, and Romantic Reactions: Culture, Computers, and the Genetic Algorithm](#). *Social Studies of Science* 28(1):39-71.
- 1997 [The Spiritual in Artificial Life: Recombining Science and Religion in a Computational Culture Medium](#). *Science as Culture* 6(3):363-395.

1992 [Kinship, Nation, and Paul Gilroy's Concept of Diaspora](#). *Diaspora: A Journal of Transnational Studies* 2(2):243-249.

Reprinted in *Globalization: Critical Concepts in Sociology*, Vol. 3. Roland Robertson and Kathleen E. White, eds. Pp. 461-467. London: Routledge, 2003.

Chapters in Edited Volumes

forthcoming Music for Cochlear Implants. In *The Oxford Handbook of Timbre*. Emily Dolan and Alex Rehding, eds. Oxford: Oxford University Press.

2016 [Cheese in and as Art](#). In *The Oxford Companion to Cheese*, Catherine W. Donnelly, et al., eds. Pp. 40-42. Oxford: Oxford University Press.

2016 [Transducing](#). In *Experience Book: Culture, Cognition, and the Common Sense*. Caroline Jones, David Mather, and Rebecca Uchill, eds. Pp. 162-167. Cambridge: MIT Press.

2015 [Old Waves, New Waves: Changing Objects in Physical Oceanography](#). In *Fluid Frontiers: New Currents in Marine and Maritime Environmental History*. John Gillis and Franziska Torma, eds. Pp. 76-88. Cambridge: White Horse Press.

2015 [Transduction](#). In *Keywords in Sound Studies: Towards A Conceptual Lexicon*. David Novak and Matt Sakakeeny, eds. Pp. 222- 231. Durham, NC: Duke University Press.

2014 [Blood, Waves: On Italo Calvino's "Blood, Sea."](#) In *Textures of the Anthropocene: Grain | Vapor | Ray*. Katrin Klingan, Ashkan Sepahvand, Christoph Rosol, and Bernd M. Scherer, eds. Pp. 49-53. Berlin: Revolver.

2014 [Tactics of Multispecies Ethnography](#) (with Eben Kirksey and Craig Schuetze). In *The Multispecies Salon: Gleanings from a Para-Site*. Eben Kirksey, ed. Pp. 1-24. Durham, NC: Duke University Press.

2013 [Chimeric Sensing](#). In *Florian Hecker: Chimerizations*. Pp. 9-15. New York: Primary Information.

[Italian translation in Live Arts Week/Gianni Peng V, Museo d'Arte Moderna di Bologna. Pp. 79-89](#). Bologna: Xing, 2016.

2012 [Underwater Music: Tuning Composition to the Sounds of Science](#). In *The Oxford Handbook of Sound Studies*. Karin Bijsterveld and Trevor Pinch, eds. Pp. 151-175. Oxford: Oxford University Press.

Reprinted in *The Routledge Companion to Biology in Art and Architecture*. Charissa Terranova and Meredith Tromble, eds. Pp. 347-367. London: Routledge, 2016.

2009 [Intimate Sensing](#). In *Simulation and Its Discontents*. Sherry Turkle, ed. Pp. 129-150. Cambridge: MIT Press.

2007 [The SX-70 Camera](#). *Evocative Objects: Things We Think With*. Sherry Turkle, ed. Pp. 208-215. Cambridge: MIT Press.

- 2007 [An Archaeology of Artificial Life, Underwater](#). In *Genesis Redux: Essays in the History and Philosophy of Artificial Life*, Jessica Riskin, ed. Pp. 321-333. Chicago: University of Chicago Press.
- 2005 [Sex on the Brain: A Natural History of Rape and the Dubious Doctrines of Evolutionary Psychology](#) (with Heather Paxson). In *Why America's Top Pundits Are Wrong: Anthropologists Talk Back*. Hugh Gusterson and Catherine Besteman, eds. Pp. 180-205. Berkeley: University of California Press.
- Reprinted in *Readings for a History of Anthropological Theory*, third edition. Paul A. Erickson and Liam D. Murphy, eds. Pp. 565-583. Toronto, ON: University of Toronto Press, 2010.
- 2004 [The Word for World Is Computer: Simulating Second Natures in Artificial Life](#). In *Growing Explanations: Historical Perspectives on the Sciences of Complexity*. Norton Wise, ed. Pp. 275-300. Durham, NC: Duke University Press.
- 2003 [Life@Sea: Networking Marine Biodiversity into Biotech Futures](#). In *Remaking Life and Death: Toward an Anthropology of the Biosciences*. Sarah Franklin and Margaret Lock, eds. Pp. 227-259. Santa Fe, NM: School of American Research Press.
- 2001 [Kinship in Hypertext: Transubstantiating Fatherhood and Information Flow in Artificial Life](#). In *Relative Values: Reconfiguring Kinship Studies*. Sarah Franklin and Susan McKinnon, eds. Pp. 116-143. Durham, NC: Duke University Press.
- 1998 Replicating Reproduction in Artificial Life: or, the Essence of Life in the Age of Virtual Electronic Reproduction. In *Reproducing Reproduction: Kinship, Power, and Technological Innovation*. Sarah Franklin and Helena Ragoné, eds. Pp. 207-234. Philadelphia: University of Pennsylvania Press.
- 1992 The Historical and Epistemological Ground of von Neumann's Theory of Self-Reproducing Automata and Theory of Games. In *Toward a Practice of Autonomous Systems: Proceedings of the First European Conference on Artificial Life*. Francisco Varela and Paul Bourguine, eds. Pp. 385-391. Cambridge: MIT Press.

Invited Essays, Commentaries, and Reviews

- in press A Wrinkle in Space. Commentary on articles in "Frontiers of Life: Terrestrial and Extra-terrestrial Prospections," special issue of *Environmental Humanities* 9(2).
- 2017 [Comment on "Life Form and Form of Life within an Agentic Configuration: A Birth Ritual among the Mixe of Oaxaca, Mexico."](#) by Perig Pitrou. *Current Anthropology* 58(3):372-373.
- 2017 [Tape, Prince, and the Studio: Interview with Susan Rogers](#) (with Peter McMurray). *Twentieth-Century Music* 14(1):135-147.
- 2016 Election's Reverb, an Interview with Stefan Helmreich, by Andrés García Molina and Julien Cossette, for *Cultural Anthropology* Sound + Vision issue, <https://culanth.org/fieldsights/1011-election-s-reverb-an-interview-with-stefan-helmreich>
- 2016 [How to Hide an Island](#). *New Geographies* 08 | *Island*: 82-87.

- 2016 [Review of *The Mushroom at the End of the World: On the Possibility of Life in Capitalist Ruins*](#), by Anna Lowenhaupt Tsing. *American Ethnologist* 43(3):570-572.
- 2016 [Comment on “For Whom the Ontology Turns: Theorizing the Digital Real,”](#) by Tom Boellstorff. *Current Anthropology* 57(4):398-399.
- 2016 Melt. Theorizing the Contemporary, *Cultural Anthropology* website, January 21, <http://www.culanth.org/fieldsights/801-melt>
To be reprinted in *Anthropocene Lexicon*. Anand Pandian and Cymene Howe, eds. Earth, Milky Way: Punctum Books, 2017.
- 2015 Reel Waves, for Book Forum — Anand Pandian’s *Reel World: An Anthropology of Creation*. *Somatosphere: Science, Medicine, and Anthropology*, December 17, <http://somatosphere.net/2015/12/book-forum-anand-pandians-reel-world-an-anthropology-of-creation.html>
- 2015 [Hokusai’s Great Wave Enters the Anthropocene](#). *Environmental Humanities* 7: 203-217.
- 2015 [Spider DJs](#). Comment on *Tomás Saraceno: Arachnid Orchestra. Jam Sessions*, Nanyang Technological University Centre for Contemporary Art Singapore, 23 October - 20 December 2015, <http://www.arachnidorchestra.org/>
- 2015 [Being the Wave](#). *Cabinet* 56:82-90.
- 2014 [The Left Hand of Nature and Culture](#). Comment on Philippe Descola. 2013. *Beyond nature and culture*. Translated by Janet Lloyd with a foreword by Marshall Sahlins. Chicago: University of Chicago Press. *HAU: Journal of Ethnographic Theory* 4(3):373-381.
- 2014 [Remixing the Voyager Interstellar Record: Or, As Extraterrestrials Might Listen](#). In “Sounds of Space,” Ray Macauley, ed., special issue of *Journal of Sonic Studies* 8, <http://www.researchcatalogue.net/view/109536/109537>
- 2013 [Seashell Sound](#). *Cabinet* 48:23-29.
Reproduced in connection with *WITHIN/Infinite Ear: Deaf Experience and the Transformation of Hearing*, the Bergen Triennial, Norway, September 2016: http://www.formsofcouncil.org/en/inquiries/30_tacet/778_seashell_sound
- 2013 [In the Electromagnetic Sea](#) (on Laurent Grasso’s “Science and Fiction”). In *Artistic Research*. Ute Meta Bauer & Thomas D. Trummer, eds. Pp. 60-63. London: Koenig.
- 2012 [The House of Kuhn](#), by the Water. *Historical Studies in the Natural Sciences* 42(5):521-526.
- 2012 [Sippewisset Time-Slip](#). In *Lynn Margulis: The Life and Legacy of a Scientific Rebel*. Dorion Sagan, ed. Pp. 97-102. White River Junction, VT: Chelsea Green (adapted from “Extraterrestrial Seas,” Chapter 7 of *Alien Ocean*).
- 2012 [In a Word: Species](#). *frieze d/e* 6:33.

- 2012 [Sensing the Unseen: An Infraduction](http://sensatejournal.com/2012/04/sensing-the-unseen-2-0/) (with Emily Zeamer and Heather Paxson) *Sensate: A Journal for Experiments in Critical Media Practice*, <http://sensatejournal.com/2012/04/sensing-the-unseen-2-0/>
- 2011 [Comment on “Biosemiosis, Technocognition, and Sociogenesis: Selection and Significance in a Multiverse of Sieving and Serendipity.”](#) by Paul Kockelman. *Current Anthropology* 52(5):731-732.
- 2011 [Bear Story: Poaching Jake Metcalf](#). In “Poaching at the Multispecies Salon,” compiled by Eben Kirksey, Craig Schuetze, and Nick Shapiro. *Kroeber Anthropological Society Papers* 99/100:152-153.
- 2011 [From Polavision to Gaga Glasses](http://gagajournal.blogspot.com/2011/02/from-polavision-to-gaga-glasses.html). *Gaga Stigmata: Critical Writings and Art about Lady Gaga*, <http://gagajournal.blogspot.com/2011/02/from-polavision-to-gaga-glasses.html>
- 2011 [The Inner Sleeve: The Voyager Interstellar Record](#). *The Wire* 324:77.
- 2010 [Listening against Soundscapes](#). *Anthropology News* 51:10.
- 2010 [How Like a Reef: Figuring Coral, 1839-2010](http://reefhelmreich.blogspot.com/). In *Party Writing for Donna Haraway*, a Webfestschrift, curated and edited by Katie King (originally commissioned by Sharon Ghamari-Tabrizi), <http://reefhelmreich.blogspot.com/>
- 2010 [Virtual Water](http://www.culanth.org/?q=node/361). *Cultural Anthropology*, virtual issue on Water, September, <http://www.culanth.org/?q=node/361>
- 2010 [Waves](http://www.dur.ac.uk/ias/insights/volume3/article18/). *Insights*, Vol 3. Institute of Advanced Study, Durham University, United Kingdom, <http://www.dur.ac.uk/ias/insights/volume3/article18/>
- 2010 [Invited reply to Dame Gillian Beer’s “Late Darwin and the Problem of the Human.”](http://onthehuman.org/2010/06/late-darwin-and-the-problem-of-the-human/) *On the Human*, a project of National Humanities Center, <http://onthehuman.org/2010/06/late-darwin-and-the-problem-of-the-human/>
- 2009 [Review of Promising Genomics: Iceland and deCODE Genetics in a World of Speculation](#), by Michael Fortun. *Perspectives in Biology and Medicine*. 52(3):477-479.
- 2009 [Submarine Sound](#). *The Wire* 302:30-31.
- 2008 [Review of Dolly Mixtures: The Remaking of Genealogy](#), by Sarah Franklin. *American Ethnologist* 35(4):4005-4009.
- 2007 [Induction, Deduction, Abduction, and the Logics of Race and Kinship: Commentary on Stephan Palmié’s “Genomics, Divination, ‘Racecraft.’”](#) *American Ethnologist* 34(2):228-230.
- 2006 [Kath Weston’s Gender in Real Time: Power and Transience in a Visual Age](#). Kath Weston Interviewed by Stefan Helmreich. *Body & Society* 12(3):103-121.
- 2006 [Review of Genetic Nature/Culture](#), edited by Alan Goodman, Deborah Heath and Susan Lindee. *American Journal of Physical Anthropology* 129(2):318-319.

- 2005 [Cetology Now: A Sketch for the Twenty-First Century](#). *Melville Society Extracts* 129:10-12.
- 2005 [Biosecurity: A Reply to Nicolas Langlitz](#). *Anthropology Today* 21(5):20.
- 2005 [Comment on “Biosecurity: Proposal for an Anthropology of the Contemporary.”](#) by Stephen Collier, Andrew Lakoff, and Paul Rabinow. *Anthropology Today* 21(2):21.
- 2004 [Review of *Wetwares: Experiments in Postvital Living*](#), by Richard Doyle. *Space and Culture* 7(3):349-352.
- 2003 [The Sound of OneTree Cloning](#). In *OneTrees: The FAQs — A Bioinformatic Instrument* by Natalie Jeremijenko, xxydesign.ucsd.edu/twiki/pub/Experimentalproduct/OneTrees/onetrees.pdf
- 2003 [Torquing Things Out: Race and Classification](#) in Geoffrey Bowker and Susan Leigh Star’s *Sorting Things Out: Classification and Its Consequences*. *Science, Technology, and Human Values* 28(3):435-440.
- 2003 [Spatializing Technoscience](#), an essay review of *Facts on the Ground: Archeological Practice and Territorial Self-Fashioning in Israeli Society*, by Nadia Abu El-Haj, *The Internet: An Ethnographic Approach*, by Daniel Miller and Don Slater, and *Space in the Tropics: From Convicts to Rockets in French Guiana*, by Peter Redfield. *Reviews in Anthropology* 32(1):13-36.
- 2002 Comment on “For Whom the Cell Tolls: Debates about Biomedicine,” by Gísli Pálsson and Kristín E. Hardardóttir. *Current Anthropology* 43(2):289-290.
- 2000 Effacing Race, *Village Voice*, letters, 10 October, page 6.
- 1999 Review of *Making PCR: A Story of Biotechnology*, by Paul Rabinow. *American Ethnologist* 26(3):783-784.
- 1995 Artificial Intelligence, Artificial Life, and Alternatives to Computationalism and Objectivism. *Stanford Humanities Review* 4(2):320-323.

Publications in French, German, and Spanish

- 2016 [Weird intelligence: Astrobiologie et attribution d’intelligence](#). In *Persona. Étrangement humain*. Emmanuel Grimaud et Anne-Christine Taylor, eds. Pp. 61-65. Paris: Actes Sud/Musée du quai Branly (French translation commissioned by editors).
- 2009 [Menschliches Leben auf See](#). In *Bios und Zoë: Die menschliche Natur im Zeitalter ihrer technischen Reproduzierbarkeit*. Martin Weiss, ed. Pp. 136-151. Edition-Suhrkamp. (German translation by Martin Weiss).
- 2005 [El Espacio de la Ciencia, del Genoma Humano al Océano](#). *Ciencias: Revista de Difusión de la Facultad de Ciencias de la UNAM* 78:18-24 (Spanish translation by Ana Alvarez).
- 2000 La Vida Artificial. *Desacatos: Revista de la Antropología Social* 5:109-116 (Spanish translation by Gisèle Pérez-Moreno).

1999 Virtuellement Dieu. *Les Cahiers de Science et Vie* 53:70-76 (French translation by magazine personnel).

Media Appearances

2017 Stefan Helmreich Discusses the Upcoming Symposium, “Being Material,” *Arts at MIT*, <http://arts.mit.edu/stefan-helmreich-discusses-upcoming-symposium-material/>

2016 On Waves. *Cultures of Energy* podcast, episode 44, hosted by Dominic Boyer and Cymene Howe, Department of Anthropology, Rice University, recorded at Alien Energy Workshop at IT University of Copenhagen, Copenhagen, Denmark, October 21, aired November 17, <http://culturesofenergy.com/ep-44-stefan-helmreich/>

2016 “Anthropology Faces the Future,” episode 10 of “From Savage to Self: Farrah Jarral Explores the History of Anthropology,” BBC Radio 4, February 5 <http://www.bbc.co.uk/programmes/b06zh7ch>

2014 3 Questions: Stefan Helmreich on wave science, *MIT News*, by Kathryn O’Neill, <http://news.mit.edu/2014/3-questions-stefan-helmreich-wave-science-1121>

2014 Q&A: Stefan Helmreich on Cyborg Sound, *Arts at MIT*, <http://arts.mit.edu/qa-stefan-helmreich-cyborg-sound/>

2009 Aliens at Sea: Anthropologist Helmreich Studies Researchers Studying Ocean Microbes, *MIT News*, by Stephanie Schorow, <http://web.mit.edu/newsoffice/2009/alien-ocean-0205.html>

2008 *Doing Anthropology: Thoughts on Fieldwork from Three Research Sites*, featuring Stefan Helmreich, Erica James, and Heather Paxson of MIT Anthropology. Directed by Chris Boebel, <http://techtv.mit.edu/videos/315-doing-anthropology>

1998 “Page View,” with Craig Miller, episode # 00104298, segment #42A. Ziff-Davis TV, November 23.

Invited Lectures, Colloquia, and Conference and Workshop Papers

- 2017 Waves, North and South. Keynote lecture presented at “Entreviver,” Sixth Brazilian Anthropology of Science and Technology Meeting, University of São Paulo and Federal University of São Paulo, São Paulo, Brazil, May 16-19.
- 2017 Wave Law. Presented at “Ocean Legalities: The Law and Life of the Sea,” Baldy Center for Law and Social Policy, SUNY Buffalo Law School, Buffalo, New York, February 23-24.
- 2016 *Homo microbis*. Presented at “Microbial Relatings: A Discussion of Ethnographic Possibilities,” held at Micropia, Amsterdam, the Netherlands, November 4.
- 2016 Elementary Forms of Elemental Media. Presented at the meetings of the Society for the Social Study of Science, Barcelona, Spain, August 31-September 3; panel: Elements Thinking.
- 2016 Waves, Trapped. Presented at the meetings of the European Association of Social Anthropologists, Milan, Italy, July 20-23; panel: Anthropological Traps.
- 2016 The Wave Lab. Presented at “Oceanic Ecologies and Imaginaries,” a Short Term Residence at the University of California Humanities Research Institute, Irvine, California, June 27-July 1.
- 2016 For and Against Sound. Presented at Center for the Interdisciplinary Study of Music, University of California, Santa Barbara, Santa Barbara, California, January 19. Also presented as Plenary Lecture at “Periods and Waves: A Conference on Sound and History,” Stony Brook University, Stony Brook, New York, April 29-30.
- 2015 Music for and against the Cochlear Implant. Presented at “Making Sense of Timbre,” Radcliffe Institute, Cambridge, Massachusetts, May 13-15. Also presented in abbreviated form on Acoustic Methodologies: The 2015 Soundtable at the 114th Annual Meeting of the American Anthropological Association, Denver, Colorado, November 18-22.
- 2015 The Measure of All Waves. Presented at Atelier EXPÉRIENCE-LIMITE, Axe « Dispositifs et Mesures », Laboratoire d’ethnologie et de sociologie comparative, Centre national de la recherche scientifique/Université Paris Ouest Nanterre La Défense, Nanterre, France, March 27.
- 2015 The Domestication of the Wave. Presented at Atelier « Domestication et fabrication du vivant », Pépinière interdisciplinaire Centre national de la recherche scientifique-Paris Science et Lettre “Domestication et fabrication du vivant,” Centre national de la recherche scientifique/Laboratoire d’anthropologie sociale, Collège de France, Paris, France, March 24. Also presented in abbreviated form at *Call of the Wild* workshop, MIT History, Cambridge, Massachusetts, June 10-11, 2016, and as “The Wildness of Waves,” in conversation with Theresa George, paired with video-sound installation on waves by Nika Son and Helena Wittman, Westwerk Club Gallery, Hamburg, Germany, October 30, 2016.

- 2014 [Waves: An Anthropology of Scientific Things](#). Lewis Henry Morgan Lecture, Department of Anthropology, University of Rochester, Rochester, New York, October 22-24. Transcript in *HAU: Journal of Ethnographic Theory* 4(3):265–284. Video at <http://www.haujournal.org/haunet/helmreich.php>
- 2014 The Microbe People. Presented at a Celebration of Professor Jean Jackson’s Years of Service to MIT. MIT Anthropology, Cambridge, Massachusetts, October 17.
- 2014 The Water Next Time: Changing Wavescapes in the Anthropocene. Presented at “Changing Climates,” Center for 21st Century Studies (C21) at the University of Wisconsin-Milwaukee, April 4. Also presented at the Meet the Author session of “Oceanic Studies: Seas as Sites and Subjects of Interdisciplinary Inquiry,” a Dissertation Proposal Development Fellowship workshop sponsored by the Social Science Research Council, Berkeley, California, June 7, and in the Science Studies Program Colloquium, University of California, San Diego, La Jolla, California, March 9, 2015; in Department of Anthropology, Memorial University, St. John’s, Newfoundland, Canada, October 2, 2015, as remote lecture for Environmental Humanities Network, Edinburgh, Scotland, March 3, 2016; at “Ecologies,” workshop sponsored by Department of Anthropology and Center for International Studies, University of Chicago, Chicago, Illinois, April 15, 2016, as “An Anthropology of Waves,” at National Research University, Higher School of Economics, Moscow, Russia, September 30, 2016; at “Energy Worlds – in Experiment,” an Alien Energy Workshop at IT University of Copenhagen, October 19-21, 2016; in Critical Climate Thinking Series, Alexander Grass Humanities Institute, Johns Hopkins University, Baltimore, Maryland, March 7, 2017, and at Annual Meeting of the American Association of Geographers, Boston, Massachusetts, April 5-9, 2017.
- 2013 Micro Multi Biology, with notes on the Microbiome, Racialization, and Reification. Presented at the 112th Annual Meeting of the American Anthropological Association, Chicago, Illinois, November 20-24; panel: Rethinking Life and Death: Reflections on the Anthropology of the Biosciences.
- 2013 Waves across Media. Presented at the meetings of the Society for the Social Study of Science, San Diego, California, October 9-12; panel: The Work of Art in the Age of Aqueous Technoscience.
- 2013 What Was Life? Anthropological Answers from Three Limit Biologies. Presented at the Department of Anthropology, University of Chicago, May 20; at “Creating Life: From Alchemy to Synthetic Biology,” Thirteenth Ischia Summer School on the History of the Life Sciences. Sponsored by the Wellcome Trust, the Max Planck Institute for the History of Science, the National Science Foundation, and the Stazione Zoologica Anton Dohrn, Ischia, Italy, June 29-July 6 and as session in séminaire « Fabriquer le vivant ? », Pépinière interdisciplinaire Centre national de la recherche scientifique-Paris Science et Lettre “Domestication et fabrication du vivant,” Collège de France, Paris, France, March 26, 2015.
- 2013 Seashell Sound. Presented at *Public Media, Private Media: Eighth Media in Transition International Conference*, MIT, Cambridge, Massachusetts, May 3-5.

- 2013 MultiMultispecies/Thinking against Species. Keynote lecture at *Navigating a Multispecies World*, sponsored by the Program on Science, Technology and Society, Kennedy School of Government; Department of Anthropology, Harvard University; Harvard Divinity School; MIT Anthropology, Cambridge, Massachusetts, April 25: <http://vimeo.com/65356395>. Updated version presented at *Bio-Objects Meet Multispecies Ethnography*, sponsored by the European Bio-Object Network and MIT Anthropology, Cambridge, Massachusetts, October 30, 2015.
- 2012 Listening through Alien Ears to the Voyager Interstellar Record. Presented at *Sounds of Space* workshop, Freie Universität Berlin, Berlin, Germany, November 30-December 1.
- 2012 Unbinding and Rebinding Theories in STS, Social Analysis, and Anthropology (with Sherine Hamdy). An American Ethnological Society Graduate Student Workshop, convened at the 111th Annual Meeting of the American Anthropological Association, San Francisco, California, November 14-18.
- 2012 Electromagnetic Life. Presented at the 111th Annual Meeting of the American Anthropological Association, San Francisco, CA, November 14-18; panel: Anthropology and Life Itself. Also presented at “A Post-Genomic Embrace of the Human? The Social Science and Humanities of Non-Reductionist Life Sciences,” a Sawyer Seminar on the Comparative Study of Cultures, funded by the Andrew W. Mellon Foundation, sponsored by NYU Anthropology, New York, New York, January 29, 2014: <http://www.vimeo.com/85477880>
- 2012 Lateral Waves. Presented at the meetings of the Society for the Social Study of Science, Copenhagen, Denmark, October 17-21; panel: Lateral Moves in STS: Tampering with the Conceptual/Empirical Divide.
- 2012 Lives We Metaphor By. Presented at “Connections: Ethnographic Explorations — A Celebration of Professor James Howe’s Years of Service to MIT.” MIT Anthropology, Cambridge, Massachusetts, June 4.
- 2011 Provincializing Biology. Presented at symposium on “Local Biologies” in Honor of Margaret Lock. Department of Social Studies of Medicine, McGill University, Montreal, Canada, November 15.
- 2011 Potential Energy. Presented at *The Anthropology of Potentiality: Exploring the Productivity of the Undefined and Its Interplay with Notions of Humanness in New Medical Practices*, Wenner-Gren Foundation for Anthropological Research meeting, Teresópolis, Brazil, October 28-November 4.
- 2011 Old and New Waves. Presented at *Final Frontiers: Exploring Oceans, Islands, and Coastal Environments*. Sponsored by Rachel Carson Center, Munich, Germany, held at Island Institute, Rockland, Maine, October 20-23.
- 2011 Blue-Green Capital, Biotechnological Circulation and an Oceanic Imaginary: A Critique of Biopolitical Economy. Presented at “Ecosystems, Justice and Markets,” Dartmouth College, Hanover, New Hampshire, April 27.
- 2010 From Spaceship Earth to Google Ocean. Presented at the 109th Annual Meeting of the American Anthropological Association, New Orleans, Louisiana, November 17-21; panel: Concerning Environmental Objects.

- 2010 Nature/Culture/Seawater. Presented at Environmental Politics Colloquium, University of California, Berkeley, Berkeley, California, April 2. Also given as Plenary Lecture on “Naturecultures” at Meetings of the Society for Cultural Anthropology, Santa Fe, New Mexico, May 8: <http://culanth.org/?q=node/347>
- 2010 Waves. Presented at Institute of Advanced Study, Durham University, United Kingdom, February 8.
- 2009 Extreme Life Forms. Presented at the 108th Annual Meeting of the American Anthropological Association, Philadelphia, Pennsylvania, December 2-6; panel: Extreme: Histories and Economies of Humanness Inside Outerspaces.
- 2009 [Nonlinear Works and Lives](#). Presented at the 108th Annual Meeting of the American Anthropological Association, Philadelphia, Pennsylvania, December 2-6; panel: The End/s of the Anthropology of Technoscience: Celebrating 10 Years of the Diana Forsythe Prize.
- 2009 Underwater Music. Presented at Sound Studies Conference, Maastricht, Netherlands, November 21-22 Also presented at “Liquid Metaphors and Measurement” seminar at Institute of Advanced Study, Durham University, United Kingdom, February 17, 2010.
- 2009 Microbes meet Earth. Presented with Heather Paxson at Technoscience Salon, Jackman Humanities Institute, University of Toronto, Ontario, Canada, October 19. Later version, “The Perils and Potentials of Microbial Abundance: From Fermented Foods to Astrobiology,” presented at Institute for Advanced Study, University of Minnesota, February 24, 2011 <http://ias.umn.edu/2011/02/24/stefan-helmreich-heather-paxson/>; in Department of Anthropology at City University of New York, Graduate Center, April 1, 2011; in Program in Science, Technology and Society, University of Michigan, Ann Arbor, Michigan, September 17, 2012; as Klopsteg Lecture in the Science in Human Culture Program, Northwestern University, Evanston, Illinois, April 15, 2013; and at Dipartimento di Scienze Umane e Sociali, University of Bergamo, Italy, June 26, 2013.
- 2009 Science as/Is Culture. Presented at *Cultures in Common: 50 Years of Reflection on Science, Technology, and Society*. Co-Sponsored by the Program on Science, Technology and Society of the Kennedy School of Government, the Center for the Environment of the School of Engineering and Applied Sciences, and the Humanities Center at Harvard University in cooperation with the Program in Science, Technology, and Society, MIT, Cambridge, Massachusetts, May 8.
- 2009 Sonic Ethnography, or Documentary without Words: From Field Recordings to Recording Fields (with Ernst Karel). Megapolis Audio Festival, Cambridge, Massachusetts, April 25-26.
- 2009 Species of Biocapital. Presented at Centre for Economic and Social Aspects of Genomics, Lancaster University, United Kingdom, March 25.
- 2009 Artificial Life across Media, Simulated and Submarine. Presented at *Animation and Automation*. Centre for Screen Studies, University of Manchester and the Centre for Science Studies, Lancaster University, March 26-27.

- 2009 Alien Ocean: Life at Sea. Presented at Environmental Studies Series, Sarah Lawrence College, Bronxville, New York, March 9. Also presented at Pembroke Center for Teaching and Research on Women, Brown University, co-sponsored by Anthropology Department and Committee on Science and Technology Studies, Providence, Rhode Island, March 17; at Science and Technology Studies, York University, Toronto, Ontario, Canada, October 20; as Public Lecture sponsored by Institute of Advanced Study, Durham University, February 9, 2010; at UC Santa Barbara Interdisciplinary Humanities Center, Santa Barbara, California, May 4, 2010; at Marine Sciences, University of Maine, Orono, Maine, April 8, 2011; as keynote lecture at *Culture Versus Nature Revisited*, Nordic Anthropology of Health and Medicine Conference, University of Aarhus and University of Copenhagen, Grenaa, Denmark, June 8, 2011, as Explorer Seminar, Semester at Sea, M/V *Explorer*, April 22, 2012; at Department of Sociology and Anthropology, Northeastern University, Boston, Massachusetts, October 10, 2012, and at Bremen NatureCultures-Lab, Institut für Ethnologie und Kulturwissenschaft, Universität Bremen, Bremen, Germany, November 1, 2016.
- 2009 Alien Ocean: Anthropological Voyages in Microbial Seas. Presented at Parsons Lab Microbial Systems Seminar Series, Department of Civil and Environmental Engineering, MIT, Cambridge, Massachusetts, February 4.
- 2008 Alien Ocean: The Symbiopolitics of Life at Sea. Presented at the 107th Annual Meeting of the American Anthropological Association, San Francisco, California, November 19-23; panel: Species at Sea: Aqueous Anthropologies of Nonhuman Strangers and Companions.
- 2008 Submarine Media: Sounding the Sea with Cyborg Anthropology. Comparative Media Studies Colloquium, MIT, Cambridge, Massachusetts, October 2. Also presented in “Ethnography/Sensorium” colloquium series, Department of Anthropology, Princeton University, Princeton, New Jersey, March 31, 2011; and in History and Philosophy of Science, McGill University, Montreal, Canada, November 17, 2011.
- 2008 Life Forms at Three Extremes. Presented at *Vitalism Revisited: History, Philosophy, Biology*, a symposium held at the Center for Interdisciplinary Studies in Science and Cultural Theory, Duke University, Durham, North Carolina, March 22.
- 2007 Marine Bioprospecting and Biotechnology in Hawaii: Legal Contests and Contexts at Sea. Presented in Law/Science Seminar Series, Department of Law, Jurisprudence & Social Thought, Amherst College, Amherst, Massachusetts, February 5. Also presented at the Political Ecology Working Group of the Department of Anthropology, Harvard University, Cambridge, Massachusetts, March 2.

- 2006 *How the Ocean Got Its Genome: Bodies of Knowledge and Bodies of Water in Marine Microbiology*. Presented at the Department of Anthropology, New School University, New York, New York, December 18. Also presented at the Holtz Center for Science and Technology Studies, University of Wisconsin at Madison, September 20, 2007; in the Program on Science, Technology and Society, Kennedy School of Government, Harvard University, Cambridge, Massachusetts, December 10, 2007; at the Centre for Economic and Social Aspects of Genomics, Lancaster University, United Kingdom, March 25, 2009; in the Department of Social Studies of Medicine, McGill University, Montreal, Canada, October 7, 2009; at Department of Anthropology, Durham University, United Kingdom, February 24, 2010; at Department of Anthropology, Johns Hopkins University, Baltimore, Maryland, April 27, 2010; at Department of History and Sociology of Science Workshop, University of Pennsylvania, Philadelphia, Pennsylvania, November 8, 2010; at Center for Society and Genetics, UCLA, March 17, 2011; at Department of Anthropology, Rutgers University, New Brunswick, New Jersey, March 30, 2011; and at Centre for Medical Science and Technology Studies, University of Copenhagen, Copenhagen, Denmark, June 6, 2011; and at Department of Anthropology, Harvard University, Cambridge, Massachusetts, November 19, 2012.
- 2006 *How the Ocean Got Its Genome: Making Meaning out of Microbes in Marine Genomics*. Presented at the 105th Annual Meeting of the American Anthropological Association, San Jose, California, November 15-19; panel: Speaking with/for Nature: Conversations with Biologists and their Non-Human Others.
- 2006 *Alien Ocean: An Anthropology of the Deep Sea*. Presented at the Center for Humanities, Wesleyan University, Middletown, Connecticut, October 23. Also presented at the Science and Technology Studies Department, Rensselaer Polytechnic Institute, Troy, New York, November 14, 2007.
- 2006 *An Anthropologist Underwater: Deep-sea Soundscapes, Submarine Cyborgs, and the Idea of Immersion*. Presented at the Department of Anthropology, Rice University, Houston, Texas, March 2.
- 2005 *Outline of a Theory of Fieldwork*. Presented to the Social Science Faculty Seminar, University of Iceland, Reykjavik, Iceland, May 24.
- 2005 *Microcosmic Seas: A Maritime Anthropology of Marine Microbiological Worlds*. Presented to the Anthropology Faculty Seminar, University of Iceland, Reykjavik, Iceland, May 23.
- 2005 *The Signature of Life: Designing the Astrobiological Imagination*. Presented at “New Forms of Life: Practices and Consequences of Envisioning Biological Processes,” a Joint Workshop at the Kennedy School of Government organized by the Science, Technology and Society Programs at Harvard and MIT, Cambridge, Massachusetts, February 11.
- 2004 *The Microbially Modified Ocean*. Presented at the meetings of the Society for the Social Study of Science, Paris, France, August 25-28; panel: Microbiopolitics.

- 2004 Anthropology Underwater: A Report on Deep Submersible Vehicle *Alvin* Dive #4020, "Mapping Mothra Hydrothermal Field." Presented on board the Research Vessel *Atlantis*, 47°56' N, 129° 06' W, Endeavour Segment of the Juan de Fuca Ridge, Waters of the Canadian Exclusive Economic Zone, June 5.
- 2004 Alien Algae: Colonialism, Culture, and Classification in Hawaii. Presented in Coastal Studies Speaker Series, Bowdoin College, Brunswick, Maine, April 19.
- 2004 Kinship with the Sea: An Anthropologist Examines Marine Biology in the Age of Genomics. Presented as Invited Dinner Speaker for the Burchard Scholars Program, MIT, Cambridge, Massachusetts, March 17.
- 2003 An Archaeology of Artificial Life, Underwater. Presented at Workshop on the History of Artificial Life, Program in History and Philosophy of Science and Technology, Stanford University, Stanford, California, October 4-5.
- 2003 Wet Networks: A Biopolitics of Marine Biodiversity and Biotechnology. Presented at the Department of the History of Science, Harvard University, Cambridge, Massachusetts, January 7. Also presented at the Department of Anthropology, University of California, Berkeley, Berkeley, California, January 13; the Department of Anthropology, Cornell University, Ithaca, New York, January 20; and in MIT Anthropology, Cambridge, Massachusetts, March 3.
- 2002 Culturing a Microbial Sea: An Anthropology of New Marine Biological Natures for the Ocean. Presented at the 101st Annual Meeting of the American Anthropological Association, New Orleans, Louisiana, November 20-24; panel: Recasting Maritime Anthropology.
- 2002 The Sea that Science Makes: An Anthropological View of Marine Research and Ocean Worlds in the Age of Genomics and Informatics. Presented in the Monterey Bay Aquarium Research Institute Seminar series, Moss Landing, California, October 23. Also presented at the Department of Ocean Sciences, University of California, Santa Cruz, March 19, 2003.
- 2002 Life's Signature: Designing the Astrobiological Imagination. Presented at the meetings of the Society for Literature and Science Pasadena, California, October 10-13; panel: Edging the Work of Hillel Schwartz into Cultural Studies of Science.
- 2002 Trees and Seas of Information: Alien Kinship and the Biopolitics of Gene Transfer in Marine Biology and Biotechnology. Presented at the Program in Science, Technology and Society, University of Michigan, Ann Arbor, Michigan, October 7. Also presented at the Society for Cultural Anthropology Biennial Meeting, held with the American Ethnological Association and Société Canadienne d'Anthropologie, Montreal, Canada, May 3-6; panel: Transspecific Biopolitics: Animals as Models and as Collaborators.
- 2002 Decrypting Race and Class in Spielberg's *A.I.* Presented in absentia at *Critical Cyberculture Studies: Mapping an Evolving Discipline*. Co-sponsored by the University of Maryland's Cyberculture Working Group and the Consortium on Race, Gender, and Ethnicity, University of Maryland, College Park, Maryland, April 26-27; panel: Agency and Artifice in Cyberspace.

- 2002 The Promises of Marine Biotechnology. Presented at the Fourth Asia-Pacific Marine Biotechnology Conference, Honolulu, Hawaii, April 22-26; panel: Ecology and Marine Microbiology.
- 2001 Maritime Anthropology Meets Science Studies. Presented at the 100th Annual Meeting of the American Anthropological Association, Washington, DC, November 28-December 2; panel: Science, Technology, and Anthropology.
- 2001 Channeling Extraterritorial Marine Biodiversity. Presented at the meetings of the Society for the Social Study of Science, Cambridge, Massachusetts, November 1-4; panel: Envisioning Ecofutures 4: Ordering the Unseen Depths.
- 2001 Torquing Things Out. Presented at the meetings of the Society for the Social Study of Science, Cambridge, Massachusetts, November 1-4; panel: Author Meets Critics: Geoffrey Bowker and Susan Leigh Star's *Sorting Things Out: Classification and Its Consequences*.
- 2000 Life@Sea: Networking Marine Biodiversity into Biotech Futures. Presented at School of American Research seminar "Animation and Cessation: Anthropological Perspectives on Changing Definitions of Life and Death in the Context of Biomedicine," Santa Fe, New Mexico, April 30-May 4. Also presented at the Program in Science, Technology, and Society, MIT, Cambridge, Massachusetts, November 13. A revised version presented in the Department of Anthropology, UCI, Irvine, California, February 5, 2002 and presented at the Science and Technology Studies Department, Rensselaer Polytechnic Institute, Troy, New York, November 13, 2002.
- 1999 Artificial Life, Inc.: Coding and Decoding Commodity Fetishism in a Digital World. Presented at the 98th Annual Meeting of the American Anthropological Association, Chicago, Illinois, November 17-21; panel: Time and Motion: From Therbligs to Value Added.
- 1999 The Dynamics of Digitality in Artificial Life. Presented at the meeting of the International Society for History, Philosophy, and Social Studies of Biology, Oaxaca, Mexico, July 7-11; panel: Topologies and Typologies of Life in the Digital Domain.
- 1999 An Anthropology of Artificial Life. Presented at the Yerba Buena Center for the Arts on Wattis Artist-in-Residence Natalie Jeremijenko's "Real Artificial Life" panel, San Francisco, California, May 8.
- 1999 Silicon Second Nature: Conceiving Artificial Life and Reprogramming Kinship in a Digital World. Presented at the Department of Anthropology, University of Chicago, Chicago, Illinois, March 1. Also presented in MIT Anthropology, Cambridge, Massachusetts, April 5, and in the Department of Anthropology, New York University, September 21, 2000.
- 1999 Silicon Second Nature: Culturing Artificial Life in a Digital World. Presented at the Santa Fe Institute for the Sciences of Complexity, Santa Fe, New Mexico, February 12.

- 1998 Silicon Second Nature: Culturing Artificial Life and Denaturing Biology. Presented at the 97th Annual Meeting of the American Anthropological Association, Philadelphia, Pennsylvania, December 2-6; panel: Investing in Living Matter: Strategic Claims on the Biological.
- 1998 Silicon Second Nature: Culturing Artificial Life and Reprogramming Kinship. Presented at the meetings of the Society for the Social Study of Science, Halifax, Nova Scotia, Canada, October 28-November 1; panel: Recalibrating Life: Kinship beyond Biology.
- 1998 Simulation, Revelation, Hallucination: Double Visions of Vitality in Artificial Life. Presented at *Science and the Humanities Revisited*, UCLA, Los Angeles, California, April 24-25; panel: Envisioning Science.
- 1998 Kinship in Hypertext: Formulating Fatherhood and Information Flow in Artificial Life. Presented at *New Directions in Kinship Study: A Core Concept Revisited*, Wenner-Gren Foundation for Anthropological Research meeting, Mallorca, Spain, March 27-April 4.
- 1997 Transinformatic Organisms and Mutagenic Anthropologies at the Close of a Millennium. Presented at the 96th Annual Meeting of the American Anthropological Association, Washington, DC, November 19-23; panel: After Nature/Culture: Anthropologies In & Of Technoscientific Worlds.
- 1997 Artificial Life in a Worldwide Web. Presented at *Ecologies: Rethinking Nature/Culture*, Center for the Critical Analysis of Contemporary Culture, Rutgers University, New Brunswick, New Jersey, February 19.
- 1997 The Word for World Is Computer: Simulating Second Natures in Artificial Life. Presented at *Growing Explanations: Historical Perspectives on Recent Scientific Practice*, a Workshop in the History of Science and Technology, Princeton University, Princeton, New Jersey, February 15-16; panel: Recent History of Artificial Life and Immunology. An earlier version presented at *ECAL 95: The Third European Conference on Artificial Life*, Granada, Spain, June 4-6, 1995.
- 1996 Reconfiguring “Nature” and “Culture” in Ethnographic Engagement and Argument with Artificial Life Scientists. Presented at the 95th Annual Meeting of the American Anthropological Association, San Francisco, California, November 20-24; panel: Multiple Fieldsites, Multiple Entanglements: Novel Ethnographic Positions and Methods in the Study of Technoscience.
- 1996 Primitivity in the Nativity of Artificial Life: Elementary Forms of Electronic Life in the White Imagination. Presented at *Simulating Knowledge: Cultural Analysis of Computer Modeling in the Life Sciences*, Cornell University, Ithaca, New York, April 19-21. Portions also presented for *Graft versus Host: Cultural Studies of Technoscience*, Program in Science, Technology, and Society, MIT, Cambridge, Massachusetts, April 26.

- 1995 Recombinations of the Religious and the Scientific in a Computational Culture Medium: Concerning the Spiritual in Artificial Life. Presented at the Science and Literature Society meetings, Los Angeles, California, November 2-5; panel: Embodied Discourse: The Role of Narratives and Visual Images in Scientific Talk and Theories. Also presented at the 94th Annual Meeting of the American Anthropological Association, Washington, DC, November 15-19; panel: Communities of Technological Practice and the Design of Technology.
- 1995 Replicating Reproduction in Artificial Life: or, the Essence of Life in the Age of Virtual Electronic Reproduction. Presented at the meetings of the Society for the Social Study of Science, Charlottesville, Virginia, October 18-21; panel: New Anthropological/ Cultural Studies of Science and Technology. Earlier versions presented at the Department of Science and Technology Studies, Cornell University, Ithaca, New York, October 16; and the Stanford Humanities Center, Stanford University, Stanford, California, May 4.
- 1994 Simulating and Refiguring “Life” in the Discipline of Artificial Life. Presented at the 93rd Annual Meeting of the American Anthropological Association, Atlanta, Georgia, November 30-December 4; panel: Cultural Studies of Science, Technology, and Medicine III: Theorizing Intervention, (Re) Imagining Technoscience.
- 1994 Travels through “Tierra,” Excursions in “Echo”: Anthropological Reflections and Refractions on the Looking-Glass Worlds of Artificial Life. Presented at *Artificial Life IV: An Interdisciplinary Workshop on the Synthesis and Simulation of Living Systems*, MIT, Cambridge, Massachusetts, July 6-8. Also published as Santa Fe Institute preprint 94-04-024.
- 1994 Anthropology Inside and Outside the Looking-Glass Worlds of Artificial Life. Presented at *Vital Signs: Cultural Perspectives on Coding Life and Vitalizing Code*, Stanford University, Stanford, California, June 2-4. Also presented at the seminar of the Berlin Summer Academy 1994, *Communicating Nature: Die Semiotisierung der Natur im 19. und 20. Jahrhundert*, Berlin, Germany, July 23-30. Organized through the Berlin Verbund für Wissenschaftsgeschichte, Technische Universität Berlin.
- 1993 Computer Simulations, Real Neocolonialism: A Critique of Computer Modeling in “Development”/Simulaciones por Computadora, Neocolonialismo Real: Crítica a los Modelos de Computadora para “el Desarrollo.” Presented at the 13th International Congress of Anthropological and Ethnological Sciences, Mexico City, Mexico, July 29-August 4; panel: Ciencia y Tecnología. Spanish translation by Federico Besserer and Lucía Rayas.
- 1992 Situating Artificial Life in Social Life. Presented at the Santa Fe Institute for the Sciences of Complexity, Santa Fe, New Mexico, July 17.
- 1992 Artificial Life and the Bio-Politics of Gender. Presented at *Shifting Boundaries: The Eleventh Annual Lewis and Clark College Gender Studies Symposium*, Lewis and Clark College, Portland, Oregon, April 12-15; panel: Gendered Machinations: Representations of Gender, Technologies of Power.
- 1991 Notes on the History and Idea of the Meme. Presented at Zentrum für Interdisziplinäre Forschung at the University of Bielefeld, Germany, December 18.

- 1991 The Historical and Epistemological Ground of von Neumann's Theory of Self Reproducing Automata and Theory of Games. Presented at *Toward a Practice of Autonomous Systems: The First European Conference on Artificial Life*, Paris, France, December 11-13; session: Epistemological Issues.

Conference and Workshop Commentaries

- 2017 Skype Dialogue with Bodega Bay Marine Laboratory Biologist Tessa Hill, “Thinking with Scientists” series, Science & Technology Studies Program, University of California at Davis, Davis, California, June 2.
- 2017 Poetry and the Ocean, a Dialogue with Robert Pinsky, US Poet Laureate, 1997-2000, sponsored by Catalyst Conversations, MIT List Visual Arts Center, Cambridge, Massachusetts, June 1.
- 2017 Moderator commentary on Kathleen Stewart’s “Worldly Compositions, or Six Writing Experiments Tangled in the Weight of Worlds” at *Thinking Feeling: An Affect Symposium*, MIT List Visual Arts Center, Cambridge, Massachusetts, May 6.
- 2017 Invisible/Being Earthly. Introductory comments for “Invisible” panel/Closing comments at *Being Material*, a Symposium hosted by the Center for Art, Science & Technology, MIT, Cambridge, Massachusetts, April 21-22.
- 2016 Infrastructures of NatureCulture in the Realm of the Intangible and Invisible. Workshop led with Heather Paxson at Bremen NatureCultures-Lab, Institut für Ethnologie und Kulturwissenschaft, Universität Bremen, Bremen, Germany, October 31.
- 2016 Commentary presented on “Soundscape in the Anthropology of Science and Art,” a roundtable on Pavel Borecký’s *Solaris* (Estonia, 2014), held during Days of Ethnographic Cinema, Sixth International Festival of Audiovisual Anthropology, sponsored by National Research University, Higher School of Economics, and the Department of Research Arts, Triumph Gallery, Moscow, Russia, September 29.
- 2016 Discussant commentary presented at Environmental Alterities, Amsterdam Institute for Social Science Research, University of Amsterdam, Amsterdam, Netherlands, September 15.
- 2016 Ghost Lineages on Ghost Acres. Commentary presented on Author Meets Critics session for *Ghost Stories for Darwin: The Science of Variation and the Politics of Diversity*, by Banu Subramaniam, at the meetings of the Society for the Social Study of Science, Barcelona, Spain, August 31- September 3.
- 2015 Melt. Pre-recorded pop-up commentary presented at the 114th Annual Meeting of the American Anthropological Association, Denver, Colorado, November 18-22; panel: Force and Power in the Anthropocene.
- 2015 Index as Infrastructure. Discussant commentary presented at the 114th Annual Meeting of the American Anthropological Association, Denver, Colorado, November 18-22; panel: Image as Method.
- 2015 Toward a Thick Accounting. Commentary presented on Author Meets Critics session for *Malignant: How Cancer Becomes Us*, by S. Lochlann Jain, at the meetings of the Society for the Social Study of Science, Denver, Colorado, November 11-15.
- 2015 In and Against Waves. Presentation at Dissolve Unconference: A Summit on Inequality at MIT, Cambridge, Massachusetts, October 18.

- 2015 Telephone-relayed Commentary on “Molecular Colonialism in the Reign of Microorganisms,” in talk series The World in Which We Occur, held at 12th Baltic Triennial, Contemporary Art Centre, Vilnius, Lithuania, September 6: http://twwwo.org/sessions.html#session_molcol
- 2014 Commentary presented via Skype on Maritime Anthropology Roundtable at the 113th Annual Meeting of the American Anthropological Association, Washington, DC, December 3-7.
- 2014 Into Resonance. Introductory comments for “Sounding — Resonance,” at *Seeing / Sounding / Sensing*, a Symposium hosted by the Center for Art, Science & Technology, MIT, Cambridge, Massachusetts, September 26-27: <http://arts.mit.edu/events-visit/cast-symposium/>
- 2014 Provincializing *Alien Ocean*, via the Buenos Aires subway. Response to Author Meets Critics session for *Alien Ocean* at the meetings of the Society for the Social Study of Science, Buenos Aires, Argentina, August 20-23. With John Hartigan, Deborah Heath, Alondra Nelson, and Elizabeth Roberts. Organized by Natasha Myers.
- 2013 Some People Say Not to Worry about the Air. Discussant commentary presented at the 112th Annual Meeting of the American Anthropological Association, Chicago, Illinois, November 20-24; panel: Toward a Politics of Air.
- 2012 Eco-Assemblages. Discussant commentary presented at the meetings of the Society for the Social Study of Science, Copenhagen, Denmark, October 17-21; panel: Affective Ecologies.
- 2012 A History of Hawai‘i. Semester at Sea, M/V *Explorer*, April 24.
- 2012 Thinking against the Law in Singapore. Semester at Sea, M/V *Explorer*, March 21.
- 2012 Touring Ethnic Pasts: Dominica’s Kalinago Barana Autê and South Africa’s !Kwaa Ttu San Cultural and Educational Center. Africa Reflection Day, Semester at Sea, M/V *Explorer*, March 1.
- 2012 Commentary on “Castles and Slave Dungeons, “ a tour of the Elmina and Cape Coast Slave Castles, Ghana, Semester at Sea, February 16.
- 2012 Commentary on “Swimming with Dolphins, “ a visit to the Amazonian Pink River Dolphin Sanctuary, outside Manaus, Brazil, Semester at Sea, January 31.
- 2011 Commentary at “Sideways: A Conversation about Anthropology and Science and Technology Studies Today,” Department of Anthropology, UCI, Irvine, California, December 2.
- 2011 Chimeric Sensing. Commentary on Florian Hecker’s “Interruptions #4,” Visiting Artist talk at MIT, Cambridge, Massachusetts, November 29. Repeated at *Florian Hecker: Chimerizations*, book signing, November 13, 2013.

- 2011 *Homo microbis* and the Figure of the Literal. Commentary on Dorion Sagan's "The Human is More than Human: Interspecies Communities and the New 'Facts of Life,'" Society for Cultural Anthropology Culture at Large Forum. Presented at the 110th Annual Meeting of the American Anthropological Association, Montréal, Quebec, Canada, LA, November 16-20: <http://culanth.org/?q=node/511>
- 2011 Commentary on Bruno Strasser's "The 'Data Deluge': Reinventing Authorship, Credit, and Community in the Life Sciences," presented at the Program in Science, Technology, and Society, MIT, Cambridge, Massachusetts, November 7.
- 2011 Where Are We? Commentary invited by Ute Meta-Bauer, delivered onboard the *M/Y Dardanella*, during "Circumnavigating the Americas by Sea, 2011-2014," a journey headed by Archduchess Francesca von Habsburg for her Thyssen-Bornemisza Art Contemporary Foundation of Vienna; Boston Harbor, October 23.
- 2011 Commentary on Ruth Rand's "The Sky is Crowding: Perceptions of Environmental Threat from Earth Orbit," at *Workshop for the History of Environment, Agriculture, Technology, and Science*, MIT Cambridge, Massachusetts, October 1.
- 2011 Commentary on Ernst Karel's "Materials Recovery Facility," at *Sensing the Unseen*, a Sawyer Seminar on the Comparative Study of Cultures, funded by the Andrew W. Mellon Foundation, sponsored by MIT Anthropology, Cambridge, Massachusetts, May 6.
- 2011 Commentary, "New Horizons for STS" at *STS: The Next Twenty - Conversations Within and Beyond the Field*. Program on Science, Technology and Society, Kennedy School of Government, Harvard University, Cambridge, Massachusetts, April 7-9.
- 2011 Media Media. Pre-recorded commentary on Brian Rotman's "Auras, Digital Ghosts, the Virtual," presented at *Intangibles: Immaterial Vectors, Agents and Effects*, Humanities Center at Harvard University, April 1: <http://techtv.mit.edu/collections/stefan/videos/11584-comment-on-rotman>
- 2011 Commentary on Laurent Grasso's "Science & Fictions," presented at *Collision 2: When Artistic and Scientific Research Meet*, MIT Program in Art, Culture and Technology, Cambridge, Massachusetts, March 7.
- 2010 Commentary on Jacob Metcalf's "Intimacy without Proximity," presented at the 109th Annual Meeting of the American Anthropological Association, New Orleans, LA, November 17-21; panel: Multispecies Salon 3: Swarm.
- 2010 The Agencies of Light. Discussant commentary presented at the 109th Annual Meeting of the American Anthropological Association, New Orleans, Louisiana, November 17-21; panel: Beyond Particles and Waves: Anthropological Explorations of Light.
- 2009 Commentary at "Scaling the Ethnographic," a Workshop at the Department of Anthropology, New School for Social Research, New York, New York, April 10; panel: Material Entanglements: Scales of Liveliness.

- 2008 The Anthropology of What Happens Between. Discussant commentary presented at the 107th Annual Meeting of the American Anthropological Association, San Francisco, California, November 19-23; panel: Potentiality and Humanness: Revisiting the Anthropological Object.
- 2008 Chiefly about Decomposition. Closing comments at *Instability and Decomposition: 19th and 20th Century Moments in Art, Literature, Philosophy, and Technoscience*. Humanities Center at Harvard University, Cambridge, Massachusetts, April 26.
- 2008 Earth at Sea. Discussant commentary on “Earth Undone, or the Globalization of the World Picture,” by Benjamin Lazier. Presented at Material Worlds Symposium, Brown University, Providence, Rhode Island, April 19.
- 2006 Thick Accounting. Discussant commentary presented at the 105th Annual Meeting of the American Anthropological Association, San Jose, California, November 15-19; panel: Aggregate.
- 2006 Comment on James Cameron’s *Aliens of the Deep*, Alt-Science, Alt-Religion Group, Professor Debora Battaglia, convener, Anthropology Department, Mount Holyoke College, South Hadley, Massachusetts, May 5.
- 2005 Varieties of Scientific Experience. Discussant commentary presented at the 104th Annual Meeting of the American Anthropological Association, Washington, DC, November 30- December 4; panel: Religion and Science Caught between the Past and the Future.
- 2003 Anthropomorphics. Discussant commentary presented at the 102nd Annual Meeting of the American Anthropological Association, Chicago, Illinois, November 19-23; panel: After Knowledge: Anthropologies of Hopeful Moments.
- 2003 22°45’N, 158°W. Presented at the 102nd Annual Meeting of the American Anthropological Association, Chicago, Illinois, November 19-23; AAA Executive Program Committee Workshop: Affinities Conversations: Siteless Fields.
- 2002 Looking Backward through Biogenetics. Discussant commentary presented at the 101st Annual Meeting of the American Anthropological Association, New Orleans, Louisiana, November 20-24; panel: The Un/Imaginable Futures of Biogenetic Relatedness.
- 2001 Mangles of Fantastic Anthropologies. Commentary presented at *Sense/Nonsense: Unmaking Language*, Boas-Benedict Conference. Department of Anthropology, Columbia University, New York, New York, April 20; panel: Confrontations.
- 1998 In the Web. Discussant commentary presented at the 97th Annual Meeting of the American Anthropological Association, Philadelphia, Pennsylvania, December 2-6; panel: Fieldwork on (the) Line: Impressions of Virtual Ethnology.
- 1997 Shared Substance, Shared Risk: Reprogramming Kinship and Ethnography in the Second Millennium Time Machine: A Comment on Donna Haraway’s *Modest_Witness@Second_Millennium.FemaleMan© Meets_OncoMouse™*. Presented at the meetings of the Society for the Social Study of Science, Tucson, Arizona, October 23-26; panel: Conversations with the Author: Donna Haraway.

Guest Lectures and Facilitations in College and University Classes

- 2015 Ethnographic Presence, Absence, and Substance. Discussion led at Studio for Ethnographic Design, University of California, San Diego, Center for the Humanities, La Jolla, California, March 9.
- 2013 Alien Ocean. Guest presentation via Skype, ENGL4230: Rhetorical Theory, Professor Kyle Jensen. University of North Texas, Denton, TX, March 18.
- 2012 Underwater Sound and Music. Guest presentation, Comparative Media Studies 407: Media and Methods — Sound, Professor John Picker. MIT, Cambridge, Massachusetts, December 6. Repeated November 14, 2013.
- 2012 Race and Citizenship in the United States, 1787-1968. Guest presentation, Global Studies, Semester at Sea, M/V *Explorer*, March 18.
- 2011 Human Nature at Sea. Guest presentation via Sykpe, Environmental Studies 58: Environmental Justice Movements, Professor Michael Dorsey. Dartmouth College, Hanover, New Hampshire, April 28.
- 2010 Alien Ocean. Guest presentation, Anthropology 223: Nature, Landscape, Environment, Professor Eleana Kim. University of Rochester, Rochester, New York, November 23.
- 2009 Alien Ocean. Guest facilitation, History of Science 257: Posthuman Science Studies, Professor Mario Biagioli. Harvard University, Cambridge, Massachusetts, April 6.
- 2008 What Is Life? Guest lecture in Earth, Atmospheric, and Planetary Sciences 007: Geobiology, Professor Tanja Bosak. MIT, Cambridge, Massachusetts, May 13.
- 2008 Acoustemologies. Guest lecture, Architecture 431: Architectural Acoustics, Professor Carl Rosenberg. MIT, Cambridge, Massachusetts, April 28.
- 2006 [Xerophonics](#). Guest lecture, Music and Theater Arts 361: Composing with Computers, Professor Evan Ziporyn. MIT, Cambridge, Massachusetts, March 6.
- 2005 Norbert Wiener and Artificial Life. Guest lecture, Comparative Media Studies 434: Science Fiction, Professor Beth Coleman. MIT, Cambridge, Massachusetts, September 21.
- 2005 Silicon Second Nature. Guest lecture, Comparative Media Studies 791: Media Theories II, Professor Henry Jenkins. MIT, Cambridge, Massachusetts, March 2.
- 2004 Doubling Back to Artificial Life. Guest lecture, Anthropology 316f: Special Topics in Anthropology — Anthropology of Nature, Professor Chaia Heller. Mount Holyoke College, South Hadley, Massachusetts, December 2.
- 2004 Dissolving the Tree of Life. Guest lecture, Civil and Environmental Engineering 84: Problems in Aquatic Biology and Chemistry. MIT, Cambridge, Massachusetts, November 12.

- 2002 Bioterrorism. Guest lecture, Anthropology 2: Introduction to Anthropology, Professor Heather Paxson. Pitzer College, Claremont, California, December 11.
- 1999 Conceiving Descent: Baloma and Female Fathers. Guest lecture, Anthropology 10: Identities: The Self, Belonging, and Destiny, Professor Sylvia Yanagisako. Stanford University, Stanford, California, May 19.

Ethnographic Field Research

- 2016 Interviews and participant-observation with wave scientists, Netherlands, Fall.
- 2016 Interviews with gravitational wave scientists, MIT, Spring.
- 2015 Interviews with wave scientists, Scripps Institution of Oceanography, University of California, San Diego, August 21-25.
- 2015 Interviews and participant-observation at O. H. Hinsdale Wave Research Laboratory, Oregon State University, Corvallis, Oregon, July 6-24.
- 2015 Interviews and visit with Waves Team, Marine Modeling and Analysis Branch, National Oceanic and Atmospheric Administration Center for Weather and Climate Prediction, College Park, Maryland, May 4.
- 2015 Interviews and participant-observation, MIT Environmental Dynamics Lab wave tank, April 10 and August 5.
- 2014 Inverse Problems, Control, and Form Optimization, Hammamet, Tunisia, May 7-9.
- 2014 KOZWaves: Kiwi-Oz Waves Conference: First International Australasian Conference on Wave Science, Newcastle, Australia, February 17-19.
- 2013 “Forecasting Dangerous Sea States,” the 13th International Workshop on Wave Hindcasting and Forecasting, Banff, Alberta, Canada, October 27-November 1.
- 2012 36th Annual World Bodysurfing Championships, Oceanside, California, August 18-19.
- 2012 Interviews with crew of M/V *Explorer* about ocean wave forecasting and maritime WiFi tracking during Spring voyage of Semester at Sea.
- 2009 “Waves and Signs,” a conference and workshop on low-frequency vibration with a performance and dance party, MIT Center for Advanced Visual Studies, Cambridge, Massachusetts, co-sponsored with Gallaudet University, April 24-25.
- 2005 “Bioprospecting of Genetic Resources in the Deep Seabed: Scientific, Legal, and Policy Aspects,” United Nations University-Institute of Advanced Studies Roundtable, United Nations, New York, New York, June 9.
- 2005 “Cosmic Evolution and Astrobiology.” Dibner Institute for the History of Science and Technology Seminar in the History of Biology, co-sponsored by NASA History Office. Marine Biological Laboratory, Woods Hole, Massachusetts, May 15-22.
- 2005 International Conference on “Tectonic and Oceanic Processes along the Indian Ocean Ridge System,” National Institute of Oceanography, Goa, India, January 19-21.

- 2004 Voyage # AT 11-13 on Woods Hole Oceanographic Institute ship R/V *Atlantis*, in tandem with Dr. Deborah Kelley's "Fluid Testing of a New Sensor to Monitor Environmental Conditions within the Walls of Active Sulfide Structures." Work included participation in DSV *Alvin* dive #4020, "Mapping Mothra Hydrothermal Field, Take 2," at 47 56 N 129 06 W on the Endeavour Segment of the Juan de Fuca Ridge, waters of the Canadian Exclusive Economic Zone, May 23- June 9.
- 2004 Cruise # 393 on University of Rhode Island NSF ship R/V *Endeavor* in tandem with Dr, Brian Binder's "In Situ Pico-Cyanobacterial Growth Rates in The Sargasso Sea Based on Cell-Specific rRNA Measurements," May 11-21.
- 2004 Interviews at University of Georgia Marine Institute, Sapelo Island, Georgia, March 23-25.
- 2003 Interviews at Woods Hole Oceanographic Institute, Woods Hole, Massachusetts, September-December.
- 2003 Participant-observation at University of Hawaii, Honolulu, Hawaii, June-July.
- 2003 Participant-observation at Monterey Bay Aquarium Research Institute, Moss Landing, California, January-May.
- 2002 Asia-Pacific Marine Biotechnology Conference, Honolulu, Hawaii, April 22-26.
- 2001 Symposium on Extremophile Research, Center of Marine Biotechnology, University of Maryland, Baltimore, Maryland, July 21.
- 2000 International Conference on Marine Biotechnology, Townsville, Queensland, Australia, September 29-October 4.
- 2000 Monterey Bay Aquarium Research Institute, Moss Landing, California, June-August
- 1996 Artificial Life V: Fifth International Workshop on the Synthesis and Simulation of Living Systems, Nara, Japan, May 16-18.
- 1995 ECAL '95: Third European Conference on Artificial Life, Granada, Spain, June 4-6.
- 1994 From Animals to Animats 3: Third International Conference on the Simulation of Adaptive Behavior, Brighton, United Kingdom, August 8-12.
- 1994 Artificial Life IV: An Interdisciplinary Workshop on the Synthesis and Simulation of Living Systems, Cambridge, Massachusetts, July 6-8.
- 1993 "Artificial Life: A Bridge Towards a New Artificial Intelligence," workshop sponsored by the Department of Logic and Philosophy of Science, University of the Basque Country, Donostia/San Sebastian, Spain, December 10-11.
- 1993-94 Dissertation research on Artificial Life, at Santa Fe Institute for the Sciences of Complexity, Santa Fe, New Mexico
- 1993 ECAL '93: Second European Conference on Artificial Life, Brussels, Belgium, May 24-26.

- 1992 Artificial Life III: An Interdisciplinary Workshop on the Synthesis and Simulation of Living Systems, Santa Fe, New Mexico, June 15-19.
- 1991 ECAL 91: The First European Conference on Artificial Life, Paris, France, December 11-13.

Courses Taught

NYU

(John W. Draper Interdisciplinary Master's Program in Humanities and Social Thought)

Introduction to Science Studies 1 (Fall 1999, 2000, 2001)
Introduction to Science Studies 2 (Spring 2000, 2001, 2002)
Cultural History of Computing (Spring 2000, Fall 2001)
Race, Science, Technology (Spring 2001)

MIT

(21A = Anthropology; STS = Science, Technology, and Society; WGS = Women's and Gender Studies; CMS = Comparative Media Studies)

Technology and Culture (21A.340 / STS.075) (Fall 2003, 2004, 2006, Spring 2014 [co-taught with Professor Heather Paxson])

Race and Science (21A.240) (Spring 2004, 2007)

The Social Study of Science and Technology (Graduate Level) (STS.350) (Spring 2004)

The Anthropology of Computing (21A.350 / STS.086 / WGS.484) (Fall 2004, taught as "Cultures of Computing," Fall 2011, Spring 2014)

Social Theory and Analysis (Graduate Level) (21A.750 / STS.250) (Spring 2007, Fall 2008, 2010, 2012, 2014, Spring 2017)

Anthropology of Biology (21A.355 / STS.060) (Fall 2007, Spring 2009, 2011, Fall 2013, Fall 2015)

History and Anthropology of Medicine and Biology (Graduate Level) (co-taught with Professor David Jones) (STS.330) (Fall 2006, Spring 2009, 2011, 2013, 2016)

Seminar in Ethnography and Fieldwork (21A.112) (Spring 2008)

Anthropology of Sound (21A.360 / STS.065 / CMS.710) (Fall 2008, 2009, 2010)

Aliens, Robots, and Vampires: Anthropology through Speculative Fiction (co-taught with Professor Erica James) (21A.270) (Fall 2009, 2013)

Science and Race, Sex, and Gender (co-taught with Dr. Abha Sur) (21A.242 / STS.046 / WGS.225) (Fall 2011, Spring 2013)

Resonance: Sonic Experience, Science, and Art (co-taught with Professor Caroline Jones) (21A.507 / 4.648) (Fall 2014)

Semester at Sea

Introduction to Cultural Anthropology (ANTH1010), Spring 2012

Anthropology of the Ocean (ANTH3590), Spring 2012

Professional Activities

Academic Publishing and Reviewing

- 2015- Advisory Board, *Catalyst: Feminism, Theory, and Technoscience*
- 2014- Diana Forsythe Book Prize Committee, Committee on the Anthropology of Science, Technology, and Computing
- 2013- Editorial Board, *The Journal of the Royal Anthropological Institute*
- 2012 Senior Book Prize Committee, American Ethnological Society
- 2012- Editorial Board, *Environmental Humanities*
- 2011- Editorial Board, *American Ethnologist*
- 2011- Advisory Board, *Culture, Theory and Critique*
- 2011- Editorial Board, *HAU: Journal of Ethnographic Theory*
- 2011 Gregory Bateson Book Prize Committee, Society for Cultural Anthropology
- 2010-2012 David M. Schneider Award committee, for graduate student essay on kinship, cultural theory, American culture; American Anthropological Association
- 2009-2015 Advisory Panel, *Science as Culture*
- 2007-2011 Editorial Board, *Cultural Anthropology*
- 1999 Senior Book Prize Committee, American Ethnological Society

Grant reviewer, National Science Foundation; Fulbright U.S. Scholar Program; European Research Council; Marsden Fund, The Royal Society of New Zealand; Ministerio de Ciencia y Tecnología, Secretaría de Estado de Política Científica y Tecnología, Spain

Manuscript reviewer, Routledge Press, MIT Press, Palgrave Macmillan, University of California Press, Princeton University Press, Duke University Press, Cornell University Press, University of Chicago Press

Article referee, *American Anthropologist; American Ethnologist; Anthropologie et Sociétés; Anthropology of Consciousness; Anthropological Quarterly; Anthropology Today; BioSocieties; Body and Society; Cambridge Anthropology; Catalyst; Cultural Anthropology; Cultural Critique; Current Anthropology; Engaging Science, Technology, and Society; Environment and Planning D: Society and Space; Ethnos; HAU: Journal of Ethnographic Theory; Journal of the Royal Anthropological Institute; International Journal of Remote Sensing; Journal of Sonic Studies; Leonardo; Maritime Studies; Medical Anthropology; Philosophy and Rhetoric; Political Geography; Science as Culture; Science, Technology, and Human Values; Senses and Society; Social Studies of Science; Society & Natural Resources; Theory, Culture & Society; Transgender Studies Quarterly; Visual Anthropology Review*

Institutional Service, MIT

- 2015-2017 April 2017 Symposium Committee, *Being Material*, Center for Art, Science & Technology.
- 2014- School Council, School of Humanities, Arts and Social Sciences.
- 2014-2015 Colloquium Committee: Science, Technology, and Society (STS)
- 2013-2014 Faculty Search Committee: Science, Technology, and Society (STS)
- 2012-2014 September 2014 Symposium Committee, *Seeing / Sounding / Sensing*, Center for Art, Science & Technology.
- 2012-2013 Faculty Search Committee: Science, Technology, and Society (STS)
- 2012-2013 Committee on Animal Care
- 2012- Visiting Artists Committee
- 2011- Levitan Prize Committee, School of Humanities, Arts and Social Sciences
- 2010-2012 Committee on Curriculum
- 2008-2011 Committee on Graduate Programs
- 2006- Kelly-Douglas Prize Committee, School of Humanities, Arts and Social Sciences
- 2007-2009 Director of Graduate Studies, Doctoral Program in History | Anthropology | Science, Technology, and Society (HASTS)
- 2006-2007 HOC Curricular Review committee
- 2006-2007 Faculty Search Committee: Anthropology
- 2006-2007 Undergraduate major, minor, concentration advisor, Anthropology
- 2004-2005 Siegel Prize committee for best student paper in science studies

Institutional Work, outside MIT

- 2012-2013 NSF ADVANCE External Career Mentor to Assistant Professor Doreen Lee, Sociology and Anthropology, Northeastern University, Boston, Massachusetts
- 2012-2013 Advisor, "Educating the Imagination: A Studio Approach for Transformative Science Learning," NSF-funded collaborative STEM Learning project of Chèche Konnen Center at the Technical Education Research Center, Boston Arts Academy, Cambridge King Open School
- 2012 Faculty, Spring, Semester at Sea, M/V *Explorer* (Dominica, Brazil, Ghana, South Africa, Mauritius, India, Singapore, Vietnam, China, Japan)
- 2006-2008 Visiting Scholar, Faculty of Social Science, University of Iceland

2006-2008 Project Personnel, Center for Microbial Oceanography: Research and Education, a Science and Technology Center, funded by the National Science Foundation

Professional Societies and Meetings: American Anthropological Association, American Ethnological Society, Society for Cultural Anthropology, Society for the Social Study of Science

Executive Program Committee, 115th Annual Meeting of the American Anthropological Association, Minneapolis, Minnesota, November 16-20, 2016.

Co-organizer of “Multispecies Salon 3: Swarm” with Eben Kirksey for the 109th Annual Meeting of the American Anthropological Association, New Orleans, New Orleans, Louisiana, November 17-21, 2010.

Organizer of Society for Cultural Anthropology-invited panel, “Species at Sea: Aqueous Anthropologies of Nonhuman Strangers and Companions” for 107th Annual Meeting of the American Anthropological Association, San Francisco, California, November 19-23, 2008.

Organizer of panel, “Ways of Sensing Biology” for the meetings of the Society for the Social Study of Science, Montreal, Canada, October 11-13, 2007.

Co-organizer of panel, “Microbiopolitics” with Heather Paxson for the meetings of the Society for the Social Study of Science, Paris, France, August 25-28, 2004.

Co-organizer of panel, “Recasting Maritime Anthropology” with Pamela Ballinger for the 101st Annual Meeting of the American Anthropological Association, New Orleans, Louisiana, November 20-24, 2002.

Organizer of panel, “Edging the Work of Hillel Schwartz into Cultural Studies of Science” for the meetings of the Society for Literature and Science, Pasadena, California, October 10-13, 2002.

Co-organizer of panel, “Topologies and Typologies of Life in the Digital Domain” with Arantza Etxeberria for the meetings of the International Society for History, Philosophy, and Social Studies of Biology, Oaxaca, Mexico, July 7-11, 1999.

Co-organizer of Society for Cultural Anthropology-invited panel, “Multiple Fieldsites, Multiple Entanglements: Novel Ethnographic Positions and Methods in the Study of Technoscience” with Mizuko Ito for the 95th Annual Meeting of the American Anthropological Association, San Francisco, California, November 20-24, 1996.

Co-organizer of conference, *Simulating Knowledge: Cultural Analysis of Computer Modeling in the Life Sciences*, Department of Science & Technology Studies, Cornell University, Ithaca, New York, April 1996.

Postdoctoral Scholars Supervised

Emily Zeamer (Ph.D. Anthropology, Harvard University), Andrew W. Mellon Postdoctoral Fellow for “Sensing the Unseen,” a 2010-2011 Sawyer Seminar on the Comparative Study of Cultures, MIT Anthropology.

Michele Friedner (Ph.D. Anthropology, University of California, Berkeley & San Francisco), National Science Foundation Postdoctoral Fellow, MIT Anthropology, 2011-2013.

Benjamin Wurgaft (Ph.D. History, University of California, Berkeley), National Science Foundation Postdoctoral Fellow, MIT Anthropology, 2013-2015.

David Jaclin (Ph.D. French Natural History Museum, Paris, and Communication Studies, University of Montréal, Quebec, Canada), Fyssen Foundation Fellow, MIT Anthropology, 2013-2014.

Noémie Merleau-Ponty (Ph.D. Laboratoire d’anthropologie des institutions et organisations sociales — L’École des hautes études en sciences sociales, Paris), Fyssen Foundation Fellow, MIT Anthropology, 2016.

Students Supervised

Ph.D. Students (in Doctoral Program in History | Anthropology | Science, Technology, and Society [HASTS], MIT, unless otherwise noted)

- 2017 Jennifer Hsieh, “Noise Governance and the Hearing Subject in Urban Taiwan,” Committee Member, Anthropology, Stanford University.
- 2017 Shira Shmu’ely, “The Bureaucracy of Empathy: Vivisection and the Question of Animal Pain in Britain, 1876-1910,” Committee Member.
- 2017 Duygu Kasdogan, “Potentiating Algae, Modernizing Bioeconomies: Algal Biofuels, Bioenergy Economies, and Built Ecologies in the United States and Turkey,” External Examiner, Anthropology, York University.
- 2017 Annet Pauwelussen, “Amphibious Anthropology: Engaging with Maritime Worlds in Indonesia,” External Evaluator, Social Sciences, Wageningen University, the Netherlands.
- 2016 Amah Edoh, “Doing Dutch Wax Cloth: Practice, Politics, and ‘The New Africa’,” Committee Member.
- 2016 Xi Lin, “Disability’s Star-Children: Autism and the Remaking of the Moral Order in Urban China,” **Principal Advisor.**
- 2016 Michaela Thompson, “Governing the Shark: Predators and People in the Twentieth Century and Beyond,” Committee Member.
- 2016 Caterina Scaramelli, “Swamps into Wetlands: Making Livable Nature in Turkey,” **Principal Advisor.**
- 2016 Tom Özden-Schilling, “Salvage Cartographies: Mapping, Futures, and Landscapes in Northwest British Columbia,” Committee Member.
- 2016 Canay Özden-Schilling, “Economy Electric: Techno-Economics, Neoliberalism, and Electricity in the United States,” Committee Member.
- 2014 Stephanie Dick, “After Math: (Re)configuring Minds, Proof, and Computing in the Postwar United States,” Committee Member, History of Science, Harvard University.
- 2014 Emily Mannix Wanderer, “Making Biosecurity, Making Mexico: An Ethnography of Biological Invasion,” **Principal Advisor.**
- 2013 Laurel Braitman, “Animal Madness: A Natural History of Disorder,” Committee Member.
- 2013 Klara Capova, “The Charming Science of the Other: An Ethnography of the Scientific Search for Life beyond Earth,” Outside Reader, Anthropology, Durham University, United Kingdom.

- 2013 Leandra Swanner, "Mountains of Controversy: Narrative and the Making of Contested Landscapes in Postwar American Astronomy," Committee Member, History of Science, Harvard University.
- 2012 Lambert Williams, "Modeling, Building, Writing: A History of Nonlinear Dynamics and Complex Systems," Committee Member, History of Science, Harvard University.
- 2011 Sara Wylie, "Corporate Bodies and Chemical Bonds: An STS Analysis of Natural Gas Development in the United States," **Principal Advisor**.
- 2011 Lisa Messeri, "Placing Outer Space: An Earthly Ethnography of Other Worlds," **Principal Advisor**.
- 2011 Michael Rossi, "The Rules of Perception: American Color Science, 1831-1931," Committee Member.
- 2010 Sophia Roosth, "Crafting Life: A Sensory Ethnography of Fabricated Biologies," **Principal Advisor**.
- 2010 Chihyung Jeon, "Technologies of the Operator: Engineering the Pilot in the U.S. and Japan, 1930-1960," Committee Member.
- 2010 Valerie Olson, "American Extreme: An Ethnography of Astronautical Visions and Ecologies," Outside Reader, Anthropology, Rice University.
- 2010 Hallam Stevens, "Life out of Sequence: An Ethnographic Account of Bioinformatics, from the ARPAnet to Postgenomics," Committee Member, History of Science, Harvard University.
- 2010 Sakari Tamminen, "Calculating Life: Nation, Nature, and the Nativisation of Nonhuman Genetics," Outside Reader, Social Sciences, University of Helsinki.
- 2009 Kieran Downes "Aesthetics, Enthusiasm, and Technology in the World of High-End Audio, 1970-2000," Committee Member.
- 2008 Etienne Benson, "The Wired Wilderness: Electronic Surveillance and Environmental Values in Conservation Biology," Committee Member.
- 2007 David Bjarnason, "An Island of Constant Connection: An Anthropologist Explores Mobile Networks," Committee Member, Anthropology, University of Iceland.
- 2007 Natasha Myers, "Modeling Proteins, Making Scientists: An Ethnography of Pedagogy and Visual Cultures in Contemporary Structural Biology," **Principal Advisor**.
- 2005 Wen-Hua Kuo, "Japan and Taiwan in the Wake of Bio-globalization: Drugs, Race, and Standards," Committee Member.
- 2003 Srikanth Mallavarapu, "Possible Worlds in Science Studies: A Postcolonial Perspective," Outside Reader, English, SUNY Stony Brook.
- 2001 Mitchell Whitelaw, "Artificial Life in New Media Art," Outside Reader, University of Technology, Sydney, Australia.

Current Nicole Labruto, **Principal Advisor**.
 Grace Kim, **Principal Advisor**.
 Richard Fadok, **Principal Advisor**.
 Jia-Hui Lee, **Principal Advisor**.
 Luísa Reis Castro, **Principal Advisor**.
 Rodrigo Ochigame, **Principal Advisor**.
 Burcu Mutlu, Committee Member.
 Ashawari Chaudhuri, Committee Member.
 Clare Kim, Committee Member.
 Peter Oviatt, Committee Member.
 Beth Semel, Committee Member.
 Claire Webb, Committee Member.
 Rijul Kochhar, Committee Member.
 Julianne Yip, Committee Member, McGill University, Montreal, Canada.
 Casey Zakroff, Committee Member, Woods Hole Oceanographic Institution.

Qualifying Exams only

- 2015 Lucas Müller
- 2014 Amy Johnson, Hilary Robinson
- 2013 Neal Akatsuka (Harvard University), Shreeharsh Kelkar, Marie Burks
- 2011 Nathaniel Deshmukh Towery, Teasel Muir-Harmony, Ellan Spero, Benjamin Wilson
- 2004 Sigurjon Baldur Hafsteinsson (Temple University)

Master's Students

- 2011 Priya Natarajan, "The Epistemic Power of Simulations: A Case Study of Cosmological N-body Simulations Circa 1980-1993," Committee Member, History | Anthropology | Science, Technology, and Society.
- 2010 Nick Seaver, "A Brief History of Re-performance," Committee Member, Comparative Media Studies.
- 2009 Caitlin Berrigan, "Life Cycle of a Common Weed: Reciprocity, Anxiety and the Aesthetics of Noncatharsis," Committee Member, Visual Arts Program.
- 2008 Andres Lombana, "The 'New' Sound of the Slap-of-the-Stick: Termite Terrace (1937-1943) and the Slapstick Tradition," Committee member, Comparative Media Studies.
- 2004 Saoirse Higgins, "Mechanism #1: War | Doom Machine | Failsafe," Committee Member, Media Lab.

NYU (as Thesis Supervisor, John W. Draper Interdisciplinary Master's Program in Humanities and Social Thought)

- 2004 Theresa MacPhail, "The Viral Gene: Reconfiguring Life, Death, and Agency in Contemporary Genomics."
- 2004 Pamela Tan, "Written on the Equine Body: An Exegesis of Wildness and Domestication in the Reintroduced Przewalski Horse."
- 2003 Abigail Ruby, "Mangles of Muscle and Gender: Making and Representing Female Bodies in Bodybuilding and in Fitness Magazines."
- 2002 Sarah Groark, "AIDS and Empire: Disease, Tensions in Globalization, and the Case of PhRMA in South Africa."
- 2002 Caroline Gomez, "Post-Revolutionary Cuba, Race, and the Anthropology of Fernando Ortiz."
- 2002 Dace Dzenovska, "'Human Development': Imagining Alternatives to Development Discourse."
- 2002 Kino MacGregor, "Agriculture as Prosthesis: An Alternative Epistemology for the Natural World."
- 2002 Anna Elizabeth Hagström, "Industrial Ethnography: The Transition to User-Centered Computer Network Design."
- 2002 Ben Kleinman, "Magnifications of Time and Agency: A Role for Technology in Communities of Practice."
- 2001 Marc Neumann, "GeneWays: Bioinformatics in the Wild."
- 2001 Leila Mouammar, "Conspiracy/Theory: A Retroactive Manifesto on the Sociotechnical Conditions for Paranoia within Reason."
- 2001 Shieh-wen Chen, "Cyborg Bodies in the Capitalist Art Market: An Analysis of Bob Flanagan, Orlan, and Matthew Barney."
- 2001 Lambert Williams, "Models, Phenomenological Laws and the Trading Zone in Physics."
- 2001 Brett Moskowitz, "Recontextualization in the Life of HIV Therapy Data."
- 2001 David Hoff, "Metaphysics and Object-Oriented Programming."
- 2000 Erlend Simonsen, "Inscribing Meaning in Electronic Mail."