

Janet Vertesi, Ph.D.

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Areas of interest and specialization: Sociology of science, knowledge, and technology; sociology of organizations; computer-supported cooperative work; qualitative methods (ethnography and ethnomethodology); critical approaches to human-computer interaction.

1. Education

Ph.D. Cornell University, Science & Technology Studies, 2009

M.A. Cornell University, Science & Technology Studies, 2005

M.Phil. University of Cambridge, History and Philosophy of Science, First Class Distinction, 2002

B.A. University of British Columbia, First Class, 2002

Denmark's International Study Program, top student, 1999

2. Appointments and Fellowships

Associate Professor of Sociology, Princeton University, 2020-present

Assistant Professor of Sociology, Princeton University, 2013-2020

Visiting researcher, Europa Mission, Jet Propulsion Laboratory, 2016-17

Consultant, Europa Jupiter System Mission, Jet Propulsion Laboratory, 2010-2012, 2015-16

Link-Cotsen Postdoctoral Fellow, Princeton University, 2010-2013

Research Scientist, University of California, Irvine, 2009-2010

History of Science Society-NASA History Office Fellow in History of Space Sciences, 2008

Visiting student, Stanford University STS Program, 2008

Human Factors Engineer, Intel Corporation, 2005

Visiting student, Imperial College London, 2003

Commonwealth Scholar, Cambridge University, 2001-2002

3. Awards

Book Prize, American Sociological Association CITAMS (Communications, Information Technology and Media Sociology) Section, 2016

David Edge Prize from the Society for Social Studies of Science for best paper, 2014

Mellon Graduate Fellow, Cornell Society for the Humanities, 2007
 Cornell University awards for outstanding student leader and organization event, 2008
 Best Paper Honorable Mention, Human Factors in Computing Systems Conference, 2007
 American Sociological Association SKAT (Science, Knowledge and Technology) section Hacker-Mullins Prize, best graduate student paper 2006
 Cornell University Sage Fellowship, 2003-2009
 Social Sciences and Humanities Research Council of Canada Doctoral Fellowship, 2003-2006
 Action Canada Fellow 2003-2004
 YWCA Vancouver Woman of Distinction Award Nominee, 2003
 University of British Columbia Keith Clifford Memorial Prize and Mary Louise Stanwood Prize, 2000
 British Columbia Premier's Award (top graduate in the province), 1996
 First Prize, Royal Commonwealth Essay Competition, Province of B.C., 1990 & 1996

3.1. Research Grants

3.2. Research Grants

2020-21	National Science Foundation, Science of Science Policy and Science and Technology Studies (joint-funded), <u>\$163,564</u> for “RAPID: The long-term effects of Covid-19: Decisions, Discovery and Impact in the Space Sciences” (PI)
2019-20	Sloan Foundation Working Longer Program, \$49,280 grant for “Outsourcing and Automation: Staging for Takeover?” (PI, with Co-I Adam Goldstein).
2018	NASA (National Aeronautics and Space Administration). <u>\$20,000</u> for research into meeting architectures for the Europa Clipper Mission. (PI)
2016-20	National Science Foundation, Science of Science Policy and Science and Technology Studies (joint-funded), <u>\$289,995</u> for “Pricing the Priceless Spacecraft: The Social Life of Money in Robotic Planetary Exploration” (PI)
2016-17	CITP Seed Grant, Agonism and Political Bots (Co-I)
2015-17	National Science Foundation EAGER, Intelligent Systems Division. <u>\$278,743</u> for exploratory research on the Europa Clipper Mission, July 2015 - 2017. (PI)
2015-16	Yahoo! Research Faculty Research Engagement Program Fellowship. <u>\$40,000</u> for project on personal data practices
2015-16	NASA (National Aeronautics and Space Administration). <u>\$45,000</u> for research into sociotechnical teaming architectures for the Europa Clipper Mission. (PI)
2013-14	National Science Foundation, Division for Advanced Cyberinfrastructure. <u>\$15,000</u> for Digital STS Workshop series (un-funded co-PI).
2013	Microsoft Corporation. <u>\$6,000</u> for Digital STS workshop at Harvard University

- 2012 National Science Foundation Research Coordination Network in Digital Societies. \$500 for digitalSTS workshop.
- 2012 Sloan Foundation Digital Research Grant. \$6,000 for digitalSTS workshop.
- 2010-2015 National Science Foundation, Socio-Computational Systems program. \$749,257 for “From Cyberspace to Outer Space: Socio-Computational Approaches to Planetary Exploration.” (PI)
- 2009-2010 National Science Foundation, Virtual Organizations as Sociotechnical Systems. \$218,091 for “The Social Life of Spacecraft: The Organization of Interplanetary Sociotechnical Systems.” (Postdoctoral scholar with PI Paul Dourish)
- 2007-2007 National Science Foundation, Science, Technology and Society, Doctoral Dissertation Improvement Fellowship Grant. \$8,000 for “Images in Interaction on the Mars Exploration Rover Mission, 2007-2008.

4. Publications

4.1. Book Projects

“Seeing Like a Rover”: *How Robots, Teams, and Images Craft Knowledge of Mars* (University of Chicago Press, 2015).

Awards: 2016 book prize from Communications, Information Technology and Media section of the American Sociological Association

Academic Reviews: *Industrial and Labor Relations Review*, *Symbolic Interaction*, *Quest Journal for the History of Space Science*, *Technoscienza*

Public Reviews: *Times Literary Supplement*, *Times Higher Education Supplement*, *Public Books*, *Physics World*, *New books in Science, Technology, and Society*, *Lunar and Planetary Information Bulletin*, *The Space Review*

Talks: Caltech, art/science invited lecture series, January 25 2017; University of Redlands physics class, January 2017; Betaworks NYC March 22, 2016; University of Amherst Sociology Department, January 27, 2016; Stanford HCI Series, October 30, 2015; Berkeley Sociology Forum, October 28 2015; Drexel University STS Program October 7, 2015; NASA Future In Space Operations, November 18, 2015; Flickr, June 15, 2016; Jet Propulsion Laboratory, August 2015; San Francisco Exploratorium After Dark Lecture Series, August 2, 2012; Princeton Old Guard, May 23, 2012; Wesleyan University course, “Interpreting Life on Mars,” April 26, 2011; Princeton University School of Architecture Media and Modernity Seminar Series, October 11, 2010; Cambridge History and Philosophy of Science Department Twentieth-Century Think Tank, June 2, 2009; NASA Ames Research Center Intelligent Systems Division, November 3, 2008; M.I.T. Space Policy and Society Program, February 6, 2008; Mars Exploration Rover mission team meeting, February 12, 2008.

Shaping Science: Organizations, Decisions, and Culture on NASA’s Teams (Chicago: University of Chicago Press, 2020).

Talks: UBC Sociology Department, March 14, 2017; UC Irvine Informatics Department

Lecture Series, June 9, 2017; UC Santa Barbara Work, Technology and Organizations unit, June 3, 2017; UCLA Information Science Department Christine Borgman working group, July, 2017; Data & Society Research Institute, New York NY, May 2016; UCSD Science Studies and Sociology Department, January 11 2016; Institute of Advanced Study, Princeton NJ November 17, 2015; York University Science and Technology Studies, February 24, 2015; Yale School of Management January 2015; Cornell University Science & Technology Studies November 4 2013; UCLA Sociology Department November 2012; Georgia Institute of Technology GVU Interdisciplinary Center, February 23, 2012; NASA Cassini Project Science Group Meeting, February 2, 2010; NASA Europa Jupiter System Mission meeting, January 28, 2010; NASA Outer Planets Advisory Group, February 9, 2010.

Fund This! Big Science in an Age of Austerity, with David Reinecke. Proposal under consideration by MIT Press.

4.2. Editorships

digitalSTS: A Fieldguide, edited by Janet Vertesi and David Ribes, with Steve Jackson, Yanni Loukissas, Laura Forlano, Daniela Rosner, Carl Disalvo, Hanna Rose Shell (Princeton University Press, 2019).

Representation in Scientific Practice Revisited, edited by: Catelijne Coopmans, Janet Vertesi, Michael Lynch and Steve Woolgar (MIT Press, 2014)

Reviewed in: *Science, Technology and Human Values, British Journal for the History of Science, Historical Studies in the Natural Sciences*

Guest editor, *Journal of Human Computer Interaction*, special issue on “Transnational HCI” (January 2014), Irina Shklovski, Janet Vertesi, Silvia Lindtner, and Lucy Suchman.

4.3. Journal Publications

“Pre-Automation: Insourcing and Automating the Gig Economy.” *Sociologica* January 2021.

“Testing Planets: Institutions Tested in an Era of Uncertainty.” *British Journal of Sociology* 73.3 (2020): 474-488. DOI: [10.1111/1468-4446.12725](https://doi.org/10.1111/1468-4446.12725)

“‘All these worlds are yours except...’ science fiction and folk fictions at NASA.” *Engaging STS* 5 (2019): 135-159. DOI:10.17351/ests2019.315

“Seizing the Digital,” *Engaging STS* 2 (2016): 180-192. DOI:10.17351/ests2019.75

With Lisa Messeri (equal authorship), “The Greatest Missions Never Flown,” *Technology and Culture* 56.1 (2015): 54-85.

“Seamful Spaces: Heterogeneous Infrastructures in Interaction,” special issue on “The Conceptual and the Empirical in Science Studies,” *Science, Technology and Human Values*, 39.2 (2014): 264-284. (Impact factor: 2.646)

“Seeing Like a Rover: Visualization and Embodiment on the Mars Exploration Rover Mission,” *Social Studies of Science* 42, 3 (2012): 393-414. (Impact factor: 2.679)

Award: David Edge best paper award from Society for Social Studies of Science

“Instrumental Images: the Visual Rhetoric of Hevelius’ *Machina Coelestis*,” *British Journal for the History of Science*, 43, 2 (2010): 209-243.

“‘Mind the Gap’: The London Underground Map and Users’ Experiences of Urban Space,” *Social Studies of Science* 38, 1 (2008): 1-32.

Award: Hacker-Mullins Award from SKAT section of the ASA

“Picturing the Moon: Hevelius and Riccioli’s Visual Debate,” *Studies in the History and Philosophy of Science* 38 (2007): 401-421.

4.4. Refereed Proceedings: Full Papers

Swezey, Casey and **Janet Vertesi**. “Working apart, together: the challenges of co-work,” *Proceedings of the ACM on Human-Computer Interaction*, Vol. 3 Issue CSCW, November 2019, Article 204. Doi: [10.1145/3359306](https://doi.org/10.1145/3359306)

Selbst, Andrew, danah boyd, Sorelle Friedler, Suresh Venkatasubramanian, and **Janet Vertesi**, “Fairness and Abstraction in Sociotechnical Systems,” *Proceedings of the first ACM Conference on Fairness, Accountability, and Transparency in Algorithms (FAT*)*, Vol. 1, No. 1, 2019.

Vertesi, Janet, Joseph Kaye, Samantha Jarosweski, Vera Kovanskaya, and Jenna Song. “Data Narratives: Uncovering tensions in personal data management.” *Proceedings of CSCW 2016*, ACM Conference on Computer-Supported Co-operative Work, New York, NY: ACM Press, pp. 478-490.

Vertesi, Janet and Paul Dourish, “The Values of Data: Considering the Context of Production in Data Economies.” *Proceedings of CSCW 2011*, ACM Conference on Computer-Supported Co-operative Work, New York, NY: ACM Press, pp. 533-542.

Irani, Lilly, **Janet Vertesi**, Paul Dourish, Kavita Phillip, and Rebecca Grinter, “Postcolonial Computing: A Lens on Design and Development,” *Proceedings of CHI 2010*, ACM Conference on Human Factors in Computing Systems, New York, NY: ACM Press, pp.1311-1320.

Shlokovski, Irina, **Janet Vertesi**, Emily Troshynski, Paul Dourish, “The Commodification of Location: Dynamics of Power in Location-Based Systems,” in *Proceedings of Ubicomp 2009*, ACM Conference on Ubiquitous Computing Systems, New York, NY: ACM Press, pp. 11-20.

Boehner, Kirsten, **Janet Vertesi**, Phoebe Sengers, Paul Dourish (2007) “How HCI Interprets the Probes”, *Proceedings of CHI 2007*, ACM Conference on Human Factors in Computing Systems, New York, NY: ACM Press, pp.1077-1086.

Award: Best paper honorable mention, CHI papers committee 2007

Kaye, Joseph, **Janet Vertesi** et al. (2006) “To Have and To Hold: Exploring the Personal Archive,” *Proceedings of CHI 2006*, ACM Conference on Human Factors in Computing Systems, New York, NY: ACM Press, pp. 275-284.

4.5. Refereed Proceedings: Short Papers

Shklovski, Irina and **Janet Vertesi**, “‘Ungoogling’ Publications: the Ethics and Problems of Anonymization,” *Extended Abstracts of CHI 2013*, ACM Conference on Human Factors in Computing Systems, New York, NY: ACM Press, pp. 2169-2178.

Goodman, Elizabeth and **Janet Vertesi**, “Design for ‘X’: Distribution Choices and Ethical Design,” *Extended Abstracts of CHI 2012*, ACM Conference on Human Factors in Computing Systems, New York, NY: ACM Press, pp. 81-90.

“‘Seeing Like a Rover’: Embodied Experience on the Mars Exploration Rover Mission,” *Extended Abstracts of CHI 2008*, ACM Conference on Human Factors in Computing Systems, New York, NY: ACM Press, pp. 2323-2332.

4.6. Edited Collections

“Powerpoint and Excel: Representational strategies, work practices, and the ‘affordances’ of mundane electronic documents,” in *digitalSTS: A Fieldguide*, edited by **Janet Vertesi**, David Ribes, Steve Jackson, Yanni Loukissas, Laura Forlano, Daniela Rosner, Carl Disalvo, Hanna Rose Shell (Princeton University Press, 2019)

Janet Vertesi and David Ribes, “Introduction”, in *digitalSTS: A Fieldguide*, edited by **Janet Vertesi**, David Ribes, Steve Jackson, Yanni Loukissas, Laura Forlano, Daniela Rosner, Carl Disalvo, Hanna Rose Shell (Princeton University Press, 2019)

Vertesi, Janet, David Ribes, Laura Forlano, Yanni Loukissas and Marisa Cohn, “Engaging, Designing, and Making Digital Systems.” In: *Handbook of Science and Technology Studies*, 4th edition, edited by Ulrike Felt, Rayvon Fouché, Clark Miller and Laurel Smith-Doerr. MIT Press 2017: 169-193.

“Mars in the Making: Digital Documentary Practices in Planetary Science.” In: *Documenting the World*, ed. Kelly Wilder & Gregg Mitman (University of Chicago Press, 2016).

Catelijne Coopmans, **Janet Vertesi**, Michel Lynch and Steve Woolgar, “Introduction: Representation in Scientific Practice Revisited.” In: *Representation in Scientific Practice Revisited*, edited by: Catelijne Coopmans, **Janet Vertesi**, Michel Lynch and Steve Woolgar (MIT Press, 2014), pp.1-13.

Irina Shklovski, **Janet Vertesi**, Silvia Lindtner, and Lucy Suchman. “Introduction to this special issue on Transnational HCI,” *Journal of Human-Computer Interaction*, 29.1 (2014): 1-21. (Impact factor: 2.391)

“Drawing As: Distinctions and Disambiguation in Digital Images of Mars.” In: *Representation in Scientific Practice Revisited*, ed. Catelijne Coopmans, **Janet Vertesi**, Michel Lynch and Steve Woolgar (MIT Press, 2014): pp. 15-36.

“Pygmalion’s Legacy: Cyborg Women in Science Fiction”, in *Sci Fi in the Mind’s Eye: Reading Science through Science Fiction*, ed. Margret Grebowitz (Open Court, 2007).

4.7. Invited Publications

“Science,” in *The Routledge International Handbook of Ethnomethodology & Conversation Analysis*, Forthcoming 2021.

“Bildbesprechung,” in *Image Guidance: Bedingungen Bildeführter Operation*, ed. Kathrin Friedrich, Mauritz Queisner, Anna Roethe (De Gruyter, 2016): 40-42.

“A sociology of robots? Learning from NASA’s robotic planetary missions.” *Contexts* magazine,

fall 2015.

“How evasion matters: implications of surfacing data-trafficking online,” *Interface*, fall 2015.

“The Mars Exploration Rover Mission,” *SAGE Handbook in Scientific and Technical Leadership*, 2012: 636-643.

“Tweeting Spacecraft.” *Communicating Astronomy to the Public Journal*, January 2011.

“Robots in Space,” *Ambidextrous*, Spring 2009: 32-33

“Sicily, or Sea of Tranquility? Mapping and Naming the Moon,” *Endeavour* 28 (2): 64-68.

4.8.Reviews

Review for *American Anthropology* of Lisa Messeri, *Placing Outer Space: An Earthy Ethnography of Other Worlds*. Durham, NC: Duke University Press (2018): 181.

Review for *ISIS* of Melissa Lambertson Sevigny, *Under Desert Skies: How Tucson Mapped the Way to the Moon and Planes* (2018): 227-228.

“The changing nature of Mars Exploration: the quest to get to Mars. Review of Erik Conway, *Exploration and Engineering*.” *Metascience* 25.2 (July 2016): 281-283.

“Review: W. Patrick McCray, *The Visioneers: how a group of elite scientists pursued space colonies, nanotechnologies, and a limitless future*,” *ISIS* 105.1 (2014): 249-250.

“Review: *Down to Earth: Satellite Technologies, Industries, and Cultures*.” *Technology and Culture* Vol. 54 (2013): 1008-1010.

“Review: *Martian Summer: Robot Arms, Cowboy Spacemen, and My 90 Days with the Phoenix Mars Mission* by Andrew Kessler,” *Quest Magazine for the History of Spaceflight*, 20.4 (2013).

“Review: Axel Geppert, ed., *Imagining Outer Space*,” *Quest Magazine for the History of Spaceflight*, 19.4 (2012).

“Review: Hans Radder, *The World Observed/The World Conceived*,” *International Studies in the Philosophy of Science* 22.3 (2008): 333-336.

4.9.Reports and White Papers

Co-author: “Learning ways to improve collaboration and communication within a distributed, large team – via the Europa Clipper Mission Social Science Journal Club.” 50th Lunar and Planetary Science Conference (2019) Abstract 2170. S. Diniega, R. Klima, C.B. Phillips, C. Richey, E. Turtle, S.D. Vance, J.A. Vertesi, R. Pappalardo.

Co-author: “The planetary science workforce: Who is missing?” 49th Lunar and Planetary Science Conference (2019) Abstract 2668. J. A. Rathbun, S. Diniega, L. C. Quick, D. H. Grinspoon, S. M. Hörst, E. S. Lakdawalla, K. E. Mandt, M. Milazzo, J. Piatek, L. M. Prockter, E. G. Rivera-Valentin, A. S. Rivkin, C. Thomas, M. S. Tiscareno, E. P. Turtle, J. A. Vertesi, N. Zellner

Co-author: “The planetary science workforce: Goals through 2050.” Planetary Science Vision 2050 Workshop (2017) Abstract 8079. J. A. Rathbun, B. A. Cohen, E. P. Turtle, J. A. Vertesi, A. S. Rivkin, S. M. Hörst, M. S. Tiscareno, F. Marchis, M. Milazzo, S. Diniega, E. Lakdawalla, N. Zellner

Co-author: “The Value of Participating Scientist Programs to NASA’s Planetary Science

Division.” L.M. Prockter, M. Wheeler, K-M. Aye, K. H. Baines, M.T.Bland, D.T.Blewett, S. Diniega, L.M. Feaga, J.R.Johnson, H.Y. McSween, C.R. Neal, C.S. Paty, J.A. Rathbun, B.E. Schmidt, D.B. Schwartz, J.A. Vertesi.

Co-author: NSF Report on Intelligent Cognitive Assistants, September 2016. C. Breazeal, G. Burr, E. Horvitz, G. Marcus, T. Sejnowski, J. Canadelaria, **J. Vertesi**, K. Forbus.
https://www.nsf.gov/crssprgm/nano/reports/2016-1003_ICA_Workshop_Final_Report_2016.pdf

Vertesi, Janet, et al. “Sociological Considerations for the Success of Planetary Exploration Missions,” White paper for the National Academies Planetary Science Decadal Survey, 2009.
<https://ia800502.us.archive.org/16/items/sociallogicalconsiderationsforthesuccessofplanetaryexploration/JanetAVertesi.pdf>

4.10. Public Sociology

“The Problem with Police Body Cameras,” *Time Opinion*, May 4, 2015.

“What SciFi Got Wrong About the Apple Watch: Vanity.” *Time Opinion*, April 24, 2015.

“Stop Counting on Individuals to Stop California’s Water Crisis.” *Time Opinion*, April 20, 2015.

“Celebrity Nude Photo Hack Exposes Flaw In How We Think About Privacy and the Cloud,” *Time Opinion* September 2, 2014

“The Real Reason You Should Be Worried About That Facebook Experiment,” *Time Opinion* July 2, 2014.

“My Experiment Opting Out of Big Data Made Me Look Like a Criminal,” *Time Opinion* May 1, 2014.

Also covered at: *Mashable.com, Huffington Post, Think Progress, Forbes.com, Jezebel, The Guardian, BoingBoing, The Globe And Mail, CTV News, NPR, and others.*

“Don’t Gut NASA Space Missions,” *CNN Opinion* December 14, 2013.

“A Roving Family,” guest on Nature’s Podcast, August 8, 2013.

“Give Apple Maps a Chance.” *CNN Opinion*, October 7, 2012.

On-air guest, “*Your Call*,” KALW 91.7FM, “What’s the future of space exploration?”, August 15, 2012.

“Seminar’s Relevance.” *The Daily Princetonian*, April 4, 2012.

“Lost in Space? cuts to NASA Threaten Innovation, Diplomacy.” *PBS Need To Know*, February 27, 2012

“Where are the Women in Tech Top 30 Under 30?” *Forbes Woman*, December 21, 2011.

Featured in: “Our Favorite Martians,” *Smithsonian Air & Space Magazine*, February 2010.

Featured in: “Subway Starts,” *National Geographic*, July 2008.

5. Conference Activities

5.1. Workshops Organized

Vertesi, Janet and David Ribes, “Digital STS Handbook,” pre-conference workshop at Society for Social Studies of Science, in Denver, CO November 2015.

Kaye, Joseph, **Janet Vertesi**, Alonzo Ferreira, Barry Brown, and Matthew Perry: “#CHImoney: financial interactions, digital cash, capital exchange and mobile money.” Extended Abstracts of CHI 2014, ACM Conference on Human Factors in Computing Systems, New York, NY: ACM Press, pp. 111-114

Vertesi, Janet and David Ribes, “Digital STS Handbook San Diego Workshop,” pre-conference workshop at Society for Social Studies of Science, in San Diego, CA, October 8-9 2013.

Loukissas, Yanni, Laura Forlano, **Janet Vertesi**, and David Ribes, “Digital STS Makers’ Workshop,” Harvard University, June 27-28, 2013.

“The Ethnographer in the Network,” a workshop organized at Princeton University Sociology Department. June 21-23, 2013

Vertesi, Janet and David Ribes, “Digital STS,” pre-conference workshop at Society for Social Studies of Science, Copenhagen, DK, October 16-17, 2012.

Vertesi, Janet, Silvia Lindtner and Irina Shklovski, “Transnational HCI: Humans, Computers and Interactions in Transnational Context,” Extended Abstracts of CHI 2010, ACM Conference on Human Factors in Computing Systems, Vancouver, BC, pp.61-64.

Lindtner, Silvia, Irina Shklovski, **Janet Vertesi**, and Paul Dourish, “Transnational Times: globality, Locality and Mobility in Technology Design and Use,” Extended Abstracts of Ubicomp 2010, ACM Conference on Ubiquitous Computing Systems, Copenhagen, DK, pp. 515-518.

DiSalvo, Carl and **Janet Vertesi**, “Imaging the City: Exploring the Practices and Technologies of Representing the Urban Environment” Extended Abstracts of CHI 2007, ACM Conference on Human Factors in Computing Systems, San Jose, CA, pp. 2829-2832.

5.2. Panels Organized

“Cultures of Tech: Studying and Working in Silicon Valley+” Science Knowledge and Technology section invited panel session, ASA Annual Meeting, San Francisco (online), August 9, 2020.

“The Politics and Practices of Digital Knowledge Production,” Science Knowledge and Technology section invited panel session, ASA Annual Meeting, Seattle, WA, August 21, 2016.

“DigitalSTS” a triple panel event, with David Ribes, Society for Social Studies of Science Society Annual Meeting, Denver, CO, November, 2015.

STS 2.0: Taking the Canon Digital,” with David Ribes, Society for Social Studies of Science Society Annual Meeting, Cleveland, OH, November 2, 2011.

“Robots Across Cultures,” with Selma Sabadovic, Society for Social Studies of Science Society Annual Meeting, Tokyo, Japan, August 26, 2010.

“Organization Matters: Social Organization of Scientific and Technical Work in Research Labs, Teams and Groups,” with Annalisa Saloni, Society for Social Studies of Science Society Annual

Meeting, Washington, DC, October 31, 2009.

“Visual Ways of Knowing,” at Society for Social Studies of Science Annual Meeting, Montreal, Quebec, October 11, 2007.

“Detailing and Disciplining: Producing the Material Elements of Natural and Social Orders,” with Michael Lynch, Society for Social Studies of Science Conference, Vancouver, BC, November 2, 2006.

“Divergence: Object, Intermediary, User” with Michael Lynch and Rachel Prentice, Society for Social Studies of Science Conference, Pasadena, CA, October 24, 2005.

5.3. Invited Talks

“Science Fiction in Action: Notes from an Ethnographer of a Spacecraft Team,” Space Science in Context, April 29 2020.

“Pre-Automation” at Fetishizing Algorithms invited panel, ASA August 10 2020.

“The ‘d’ word: solving for diversity on high-tech teams,” NSF diversity workshop, August 5 2019

“Meso-Knowledge: Organizations, Knowledge Networks, and innovation,” invited workshop on organizations and innovation, Crete, July 25, 2019.

“Pre-Automation,” at Society for the Advancement of Socioeconomics, June 21 2019.

“Organizations and Knowledge Networks,” at American Philosophical Society’s symposium, Networks: The Creation and Circulation of Knowledge from Franklin to Facebook,” June 7 2019.

“Seeing Like a Rover: Teamwork and Human-Robot Relations,” Invited Keynote address, Human Robot Interaction international conference, Daegu, South Korea, March 13, 2019.

“Seeing Like a Rover, Acting like a Team: What scientific and technical teams can learn from the Mars Exploration Rover Mission.” Invited plenary address, IEEE Aeronautics and Astronautics conference, Big Sky, Montana, March 7, 2019.

“Agential Gerrymandering: Testing Objects and Social Relations,” Invited talk, Put to the Test, Workshop at the University of Warwick, London Campus, London UK, December 5-7 2018.

“The Social Life of Spacecraft,” Invited Provocation to CalO2 conference, October 2018.

“Future work: Temporal Alignment on innovative teams,” Invited talk, Sociology of Innovation Workshop, Park City, Utah, August 4-6 2018.

“Organized robots: Organization of teams and human-robot interactions.” Invited keynote, Robots in Teams workshop, ACM Conference on Computer Supported Cooperative Work, Portland, OR, March 2017.

“Strategies for Science Integration.” Invited presentation to the Lunar Reconnaissance Orbiter team meeting. Johnson Space Center, Houston, TX, February 8 2017.

“The D-word: Solving for Diversity on Spacecraft Teams.” Invited presentation to the NASA Outer Planets Advisory Group (February 15, 2017), NASA Small Bodies Assessment Group (June 2017), the Jet Propulsion Laboratory (July 25, 2017), Space-X corporation (August 3, 2017).

“Affinity networks in STEM: an ethnographic account,” presented at UC Santa Barbara Sociology Department’s gender workshop.

“From Leviathan to Mars,” Keynote address, Steven Straker Memorial Lecture and Arts One celebration, University of British Columbia, Vancouver Canada, March 13, 2017.

“Picturing Space, Picturing Teams: visualization and social practice at NASA,” invited panel session (convened by Marion Fourcade and Raka Ray), Theory section, ASA Annual Meeting, Seattle, WA, August 23, 2016.

“Moonshot: Team dynamics and intelligent assistants,” NSF Workshop on Intelligent Cognitive Assistants, IBM Almaden, May 11, 2016.

“Moral Practices,” panelist on data practices, CSCW Meeting, San Francisco, CA, February 29, 2016.

“The digital,” Plenary panelist, SKAT25 Conference, August 21, 2015.

“The Shape of Science,” Science of Science Policy Workshop, Washington DC, March 22, 2016; Quantifying Science workshop, Phoenix AZ, September 30, 2015; Innovations, Organizations, and Society Conference, Chicago, IL, November 7, 2014.

Data History workshop panelist, Columbia University, April 17, 2015.

“How not to let the Internet know that you’re pregnant: a nine-month infrastructural inversion.” Plenary panel, Theorizing the Web, Brooklyn, NY, April 24, 2014.

“Ethnography of Large-Scale Sociotechnical Systems: a methodological toolkit,” Digital Societies Summer Institute, July 30, 2013.

“Robotic Biographies,” Science Museum, London, Keynote plenary coinciding with the Scientific Biographies Workshop, July 18 2013.

Plenary Panelist, NASA Goddard Telerobotics Symposium, May 2, 2012.

“The Greatest Missions Never Flown,” with Lisa Messeri at Envisioning Limits conference, Freie University Berlin, April 20, 2012; History of Science Program Seminar, Princeton University March 30, 2012.

“Robotic Sociology,” Collaborative Robotics Panel, 2011 International Conference on Collaborative Technologies and Systems, May 24, 2011.

Discussant Panelist: “What is Code? What is Coding? Emerging STS Approaches in Studying Computer Code,” Society for Social Studies of Science Society Annual Meeting, Washington, DC, October 29, 2009.

“Collective Visions,” Innovation, Technology and Society Conference, Northwestern University & Chicago Booth School of Business, Chicago, IL, October 15, 2011.

“Doing Science on Saturn and Mars: The Micro-Politics of Robotic Space Exploration.” The Politics of Technology Session (chair: P. DiMaggio), American Sociological Association Annual Meeting, Las Vegas NV, August 21 2011.

“The Values of Data,” Center for Information Technology Policy, Princeton University, March 3, 2011.

“Of Humans and Non-Humans: An Introduction to STS.” Princeton University Society of Fellows,

October 16, 2010.

“Drawing As’: Documenting Mars on the Mars Exploration Rover Mission,” Documenting the World, Max Planck Institute for the History of Science, Berlin, Germany, January 7-9 2010.

“Pixel-Pushing’ and ‘Lookiloo’: Image Processing on the Mars Exploration Rover Mission,” The Educated Eye, Max Planck Institute for the History of Science, Berlin, Germany, February 21-24, 2008.

“The Practical Management of Visual Technologies on the Mars Exploration Rover Mission,” at Scientific Practice As Ordinary Action Workshop, Université de Fribourg, Switzerland, March 22-24 2007.

5.4. Conference Presentations

Co-author with Casey Swezey (Princeton ’18), “Working Apart, Together.” ACM Computer Supported Cooperative Work conference 2018.

Co-author with A.J. Ranzato (Princeton ’16), “From i-Robot to we-Robot: Effects of team structure on robotic tasks.” Robots in teams workshop, ACM Computer Supported Cooperative Work conference 2017.

“Picturing Space, Picturing Teams: Visualization and Social Practice at NASA,” Visualization and Social Theory invited panel, ASA Theory Section, American Sociological Association Annual Meeting, Seattle WA, August 23, 2016.

““Being Multiple: Multi-mission and multi-institutional work in NASA’s robotic space exploration program,” Society for Social Studies of Science Society Annual Meeting, Denver, CO, November 2015.

“Powerpoint and Excel: Representational Strategies and Work Practices with Mundane Electronic Documents,” Society for Social Studies of Science Society Annual Meeting, San Diego, CA, October 11, 2013.

“Making Mars: Image Processing and Formulating Agreement on the Mars Rover Mission,” International Institute for Ethnomethodology and Conversation Analysis, Waterloo, ON, August 7, 2013.

“Un-Googleing Publications: the Ethics and Problems of Anonymization,” (with Irina Shklovski, IT University Copenhagen*), Alt.CHI session, ACM Conference on Human Factors in Computing Systems, Paris, France, May 1, 2013.

“Producing Space: The Infrastructures of Planetary Exploration,” Spatio-Temporalities Session (chairs D. Ribes and P. Edwards), Society for Social Studies of Science Society Annual Meeting, Copenhagen, DK, October 18, 2012

“The Art (and Artifacts) of Mentorship: Student Advising and Extra-Ordinary Action,” Session in honor of Michael Lynch, Society for Social Studies of Science Society Annual Meeting, Copenhagen, DK, October 18, 2012.

“Design for ‘X’: Distribution Choices and Ethical Design,” with Elizabeth Goodman, Alt.CHI session, ACM Conference on Human Factors in Computing Systems, Austin, TX, May 7, 2012.

“Remote, Together: Coordinating Activity on Saturn and on Earth,” Society for Social Studies of

Science Society Annual Meeting, Cleveland, OH, November 1, 2011.

“The Values of Data: Considering the Context of Production in Data Economies.” ACM Conference on Computer-Supported Co-operative Work, Hangzhou, China, March 23, 2011.

“Robotic Spacecraft in (Sub)cultural Context -- and Conflict.” Society for Social Studies of Science Society Annual Meeting, Tokyo, Japan, August 26, 2010.

“The Social Life of Spacecraft: Organization, Negotiation, and Instrumentation on the Cassini and Mars Rover Missions,” Society for Social Studies of Science Society Annual Meeting, Washington, DC, October 30, 2009.

“The Commodification of Location: Dynamics of Power in Location-Based Systems,” with Irina Shklovski, ACM Conference on Ubiquitous Computing Systems, Orlando, FL, October 1, 2009.

“Seeing Like a Rover, Acting With a Rover: Embodied Interaction on the Mars Exploration Rover Mission,” Society for Social Studies of Science Society Annual Meeting, Rotterdam, NL, August 21, 2008.

“‘Seeing Like a Rover’: Embodied Experience on the Mars Exploration Rover Mission,” Alt.CHI session, ACM Conference on Human Factors in Computing Systems, Florence, Italy, April 9, 2008.

“Making Mars Public: The Politics of the Martian Picturesque,” at Cornell Science and Technology Studies Seminar Series (SSRG), November 4, 2007.

“‘Everything is Coloured According to Your Hypothesis’: Annotations and the Construction of Visual Knowledge on the Mars Exploration Rover Mission,” at Society for Social Studies of Science Annual Meeting, Montreal, Quebec, October 10-13 2007.

“Taming the Pancam: Calibration on the Mars Exploration Rover Mission,” at American Sociological Association Annual Meeting, New York, NY, August 10-14, 2007.

“How HCI Interprets the Probes”, with Kirsten Boehner and Phoebe Sengers. ACM Conference on Human Factors in Computing Systems, San Jose, CA, 2007.

“Images of Instruments: The Visual Rhetoric of Virtual Witnessing in Hevelius’ Organographia”, at “At the Edge of Instrument Studies” Session (chair), History of Science Society Conference, Vancouver, BC, November 4, 2006.

“Drawing As: Image Processing on the Mars Exploration Rover Mission”, Society for Social Studies of Science Conference, Vancouver, BC, November 2, 2006.

“To Have and To Hold: Exploring the Personal Archive,” with Jofish Kaye, ACM Conference on Human Factors in Computing Systems, Montreal, Canada, DATE 2006.

“Planets in Process: Disciplining the Astronomical Body in Image Processing” at Practice, Process, Papers, STS Graduate Students’ Conference, Cambridge, MA, February 18, 2006.

“Mind the Gap: The ‘Tube Map’ as London’s User Interface”, at Society for Social Studies of Science Conference, Pasadena, CA, October 24, 2005. Also at Cornell Science and Technology Studies Seminar (SSRG), September 20, 2004.

“Probing Cultural Health Practices: Qualitative Research Methods for S&TS and Value-Sensitive Design”, Intel Corporation, Portland OR, August 12, 2005; also at Science and Technology Studies Seminar (SSRG), August 29, 2005.

“From Telescopes to STM’s: Picturing Nano-Atoms in (Historical) Context”, Imaging Nano-Space, Zentrum for Interdisciplinarische Forschung, Bielefeld, Germany, May 10-14, 2005.

“Identity Construction in the Personal Archive”, Science and Technology Studies Seminar (SSRG), October 4, 2004.

“Light and Enlightenment in Joseph Wright of Derby’s The Alchymist” at Romanticism and the Midlands Enlightenment Conference, Birmingham, UK, July 3, 2004.

“Picturing the Moon: Hevelius and Riccioli’s Visual Debate”, Art and Artefact: Visual Languages in Astronomy session, History of Science Society Conference, Cambridge MA, November 21, 2003; Microscopes and Macrosopes session, Visual Knowledges Conference, Institute for Advanced Studies in the Humanities, University of Edinburgh, September 18, 2003; Visual Culture Colloquium, Cornell University, September 26, 2005.

“Visual Testimony: An Epistemology of Scientific Illustration”, History of Science Workshop Seminar, History and Philosophy of Science Department, Cambridge University, June 16, 2002.

5.5. Invited Workshop Participation

Knowledge Infrastructures, NSF Workshop, Los Angeles, CA, February 24-27 2020.

Intelligent Cognitive Assistants, NSF workshop, IBM Almaden, May 2016

Knowledge Infrastructures, NSF Workshop, Ann Arbor, MI, May 25-28, 2012.

Consortium for the Science of Sociotechnical Systems, Portland, OR, June 21-23, 2010.

Cyberinfrastructure to Support Science Workshop, ACM Conference on Computer Supported Cooperative Work, San Diego, CA November 8-12, 2008. Accepted participant, Workshop.

Reflective HCI: Articulating a Research Agenda For Critical Practice, ACM Conference on Human Factors in Computing Systems, Montreal, April 22, 2006.

Engaging the City: Public Interfaces as Civic Intermediary, ACM Conference on Human Factors in Computing Systems, Portland, OR, April 2-7 2005.

Pictures, Maps, Graphs: A Workshop on Images in Science, University of British Columbia, Vancouver, BC, September 15-18, 2005 (one of 14 selected participants).

Affect, Interaction & Technology, Cornell University, April 21-22, 2005.

Do Collections Matter to Instrument Studies? British Society for History of Science special meeting, Oxford University, UK, June 29-30 2002.

6. Teaching

6.1. Courses taught

2020 Sociology of the Internet, SOC 215, Lecture Course

2015, 16, 19 Technology and Society, HIS/SOC/ENG 277, Lecture Course

2013, 15, 18 Sociology of the Cubicle: Work, Technology, and Organizations, SOC 346, Lecture

	Course
2015, 2018	Technology Studies, SOC 557, Graduate “Mini”
2013	Microsociology, SOC 556, Graduate “Mini”
2010, 11, 14	Sociology of Technology, SOC 355, Junior Seminar
2013	Sociology of Science, SOC 356, Junior Seminar
2012	Critical Approaches to Human-Computer Interaction, SOC/COS 409
2004, 2011	The art of science, the science of art, Cornell S&TS 126.1, Princeton FRS 140, Freshman Seminar
2005	Computers: From the 17th century to the Dot Com boom (T.A.), STS 355
2005	Science in the public arena (T.A.), STS 101
2005	What is science? (T.A.) STS 201

6.2. Students Advised

Committee Chair: Allison Kenney*, David Schwartz*, Samantha Jaroszewski, Mélanie Terrasse, Hadiya Jones, Grace Tien (*=graduated).

Committee Member: Sarah Brayne*, Amanda Cheong, Erin Johnson*, Karen Levy,* Ingrid Ockert* (History of Science), David Reinecke*, Lauren Senesac* Liora Goldensher, Leah Reisman, Clark Bernier, Gozde Guran, Vivek Nemana, Parijat Chakrabarti, Janet Xu, Ulrike Bialas, John Maldonado (*=graduated).

External Examiner: Angèle Christin*, Alex Davis*, Rachael Ferguson*.

Qualifying Examiner: *Microsociology:* Alda Balthrop-Lewis (Religion), Cary Beckwith, Sharon Cornelissan, Andrés Lajous, Allison Kenney; *Technology Studies:* Diana Enriquez, Gozde Guran, Liora Goldensher, Hadiya Jones, Alex Kindel, Samantha Jaroszewski, Larry Liu, David Reinecke, David Schwartz, Ulrike Bialas, Vivek Nemana, Clark Bernier. *Organizations:* Leah Reisman.

External committees: Samantha Merritt, Information School, Indiana University

7. Service

7.1. University Service

2020	Special committee on Excellence in Online Education
2019-2020	Council on Teaching and Learning
2018-present	Policy Advisory Committee for Princeton Research Data Service
2018	World Usability Day at Princeton Steering Committee
2017-present	Steering committee for Film and Media Studies Department
2013-present	Sociology Department diversity committee

2011- present Princeton University Digital Humanities Center Steering Committee
2004-08 Cornell University Graduate and Professional Student Assembly President (07-08)
and Events Chair (04-06)
2005-06 Cornell University Assembly Graduate Chair
2005-06 Science & Technology Studies Department seminar series coordinator
1997 Imagine UBC executive committee for first ever freshman orientation
1997 Thinking the Future of Learning Conference, Executive Assistant, UBC
1997-2001 Student Recruitment Services, Student Ambassador and lead

7.2. Peer Review

Editorial: Consulting editor for *American Journal of Sociology*, 2016-2018
Journals: *Social Studies of Science*, *Science, Technology & Human Values*, *The Sociological Review*, *Studies in the History and Philosophy of Science*, *International Journal for the Philosophy of Science*, *Transportation Systems Research Part A: Policy and Practice*, *Politics of Place*, *Eighteenth-Century Life*
Presses: University of Chicago Press, Yale University Press, MIT Press
Conferences: ACM Conference on Human Factors in Computing Systems, ACM Conference on Computer-Supported Cooperative Work, ACM Conference on Ubiquitous Computing
Agencies: The National Science Foundation, The Swiss National Science Foundation, European Research Council

7.3. Science Team Advisory Service

Mission Collaborator, *Neptune-Triton* mission concept study team, JHU-APL, 2019-2020
Mission Collaborator, *Interstellar Probe* planning team, JHU-APL, 2018-
Project science team affiliate, *Europa-Clipper* Mission, Caltech-JPL, 2015-
Mission Collaborator, *Io: The Next Generation* mission concept study team, Caltech-JHU, 2019.

7.4. External Service

Society for the Advancement of Socio-Economics, Knowledge, Technology, and Innovation Network Organizer, 2019-present.

ASA Science, Knowledge and Technology Section; membership committee, 2015-2016; membership committee chair, 2016-2017; elected Council Member 2016-2019.

Advisory board member, Data and Society Research Institute, New York City, NY, 2015-present

Chair of alt.CHI track, ACM Conference on Human Factors in Computing Systems, 2016, 2017.

Program Committee, ACM Conference on Human Factors in Computing Systems, 2012.

Program Committee, Society for Social Studies of Science Annual Meeting, 2011
Program Committee, ACM Conference on Ubiquitous Computing, 2012.

7.5. Professional Memberships

American Sociological Association (2006-present).

Sections: Science Knowledge and Technology (Membership Chair); Communications, Information Technology, and Media Studies; Ethnomethodology and Conversation Analysis; Organizations, Occupations and Work.

Association of Computing Machinery (2005-present).

Society for Social Studies of Science (2003-present)

Society for the Advancement of Socioeconomics

8. Other experience

8.1. Relevant Work

- 2003-05 Special Collections Assistant, Kroch Rare Books and Manuscript Collection, Cornell University Library, Ithaca, NY
- 2002-03 Associate Director, International Programs, Faculty of Forestry, UBC
- 2000-01 Research Assistant in History of Mathematics to Len Berggren & Jon Borwein, Mathematics Dept., Simon Fraser University, Burnaby, BC
- 2000-01 Executive Secretary, Leon and Thea Koerner Foundation, Vancouver, BC

8.2. Translation & Editorial

- Beretta, Marco, *The Alchemy of Glass: Counterfeit, Imitation and Transmutation in Ancient Glassmaking*. New York: Watson International, 2010. (Translator/editor)
- Beretta, Marco (ed), *Lavoisier in Perspective*, Deutches Museum Press, 2005. (Translator/editor)
- Barthel, Laure *Au Coeur de l'Harpe: au XVIIIème siècle / The Heart of the Harp: the History of the Harp in the Eighteenth Century*, Paris: Camac Publications, 2005. (Translator)

8.3. Languages

English (native), French (fluent), Spanish (capable), German, Danish, Italian, Hungarian (conversational), classical Greek and Latin (reading).

8.4. Interests

Music: Jazz Harpist and selected member of endowed jazz ensembles in Cornell University Jazz program 2005-2009; award-winning singer in Vancouver's Kiwanis Music Festival 1992-1998; semi-professional Musical Theatre performances 1992-1999;

advanced classical piano, ARCT-level (teacher's certificate).

Public Understanding of Science and Technology: Radio host, presenting original segments on topics in contemporary science on Science Corner on CKNW980 Vancouver's *Jennifer Mathers Show*; *The Science Show* on Cambridge University Radio; and Cambridge student science TV show *Science Sussed*; designed and implemented museum display "Looking at the Moon" in the main gallery of the *Whipple Museum for History of Science*, Cambridge, UK.

Online safety and privacy: Pioneered position with Vancouver Police Department in 2000 to reduce internet crime; developed and presented outreach education programs to promote family safety online; member of Cyberangels, 2001-2003.

University Preparedness: Designed and taught two courses for high school students at UBC Connect 2001: 'Science and Society' and 'Science and Art'; planned first ever university orientation for incoming freshmen at UBC in 1997.