

R. Stuart Geiger
Curriculum Vitae
September 2021

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Education

University of California at Berkeley, School of Information

Ph.D., Information Management & Systems, designated emphasis in New Media December 2015

Georgetown University

M.A., Communication, Culture, and Technology May 2009

University of Texas at Austin

B.A., Humanities Honors May 2007

Employment

University of California at San Diego

Assistant Professor, Dept of Communication & Halicioğlu Data Science Institute Jul 2020 – present

University of California at Berkeley, Berkeley Institute for Data Science

Postdoctoral scholar and staff ethnographer Jan 2016 – June 2020

Wikimedia Foundation

Research intern (full-time) May 2011 – Aug 2011

Georgetown University

Research associate, Communication, Culture, and Technology (full-time) May 2009 – Aug 2010

Publications & Other Scholarly Outputs:

Peer-Reviewed Journal Publications:

1. **Geiger, R. S.**, Cope, D., Ip, J., Lotosh, M., Shah, A., Weng, J., & Tang, R. (2021). “Garbage In, Garbage Out” Revisited: What Do Machine Learning Application Papers Report About Human-Labeled Training Data?. *Quantitative Science Studies*, Online First. 1-32. https://doi.org/10.1162/qss_a_00144
2. **Geiger, R. S.**, Howard, D., & Irani, L. (2021). The Labor of Maintaining and Scaling Free and Open-Source Software Projects. *Proceedings of the ACM on Human-Computer Interaction*, 5 (CSCW1), 1-28. <https://dl.acm.org/doi/pdf/10.1145/3449249>

3. Scroggins, M.J., Pasquetto, I.V., **Geiger, R.S.**, Boscoe, B.M., Darch, P.T., Cabasse-Mazel, C., Thompson, C. and Borgman, C.L. (2020). "Thorny Problems in Data (-Intensive) Science." *Communications of the ACM*. <https://dl.acm.org/doi/pdf/10.1145/3408047>
4. **Geiger, R.S.**, Varoquaux, N., Mazel-Cabasse, C., and Holdgraf, C. (2018). "The Types, Roles, and Practices of Documentation in Data Analytics Open Source Software Libraries: A Collaborative Ethnography of Documentation Work." *Computer-Supported Cooperative Work (JCSCW)*. <https://doi.org/10.1007/s10606-018-9333-1> **Best paper award (1st runner-up)**
5. **Geiger, R.S.** (2017). "Beyond opening up the black box: Investigating the role of algorithmic systems in Wikipedian organizational culture." *Big Data & Society* 4(2). <http://stuartgeiger.com/algoculture-bds.pdf>
6. **Geiger, R.S.** (2016). "Bot-based collective blocklists in Twitter: the counterpublic moderation of harassment in a networked public space." *Information, Communication, and Society* 19(6). <http://stuartgeiger.com/blockbots-ics.pdf>
7. **Geiger, R.S.** (2014). "Bots, Bespoke Code, and the Materiality of Software Platforms." *Information, Communication, and Society* 17. <http://dx.doi.org/10.1080/1369118X.2013.873069>
8. Romolini, M., S. Record, R. Garvoille, Y. Marusenko, and **R.S. Geiger**. (2013). "The Next Generation of Scientists: Examining the Experiences of Graduate Students in Network-Level Science." *Ecology and Society* 18(3). <http://dx.doi.org/10.5751/ES-05606-180342>
9. Halfaker, A., **R.S. Geiger**, J. Morgan, and J. Riedl. (2013). "The Rise and Decline of an Open Collaboration System: How Wikipedia's reaction to sudden popularity is killing it." *American Behavioral Scientist*. <http://dx.doi.org/10.1177/0002764212469365>
10. Ribes, D., S. Jackson, **R.S. Geiger**, M.C. Burton, and T. Finholt (2013). "Artifacts that organize: Delegation in the distributed organization." *Information and Organization* 23:1–14. <http://dx.doi.org/10.1016/j.infoandorg.2012.08.001>
11. **Geiger, R.S.** (2009). "Does Habermas Understand the Internet? The Algorithmic Construction of the Blog/Public Sphere." *Gnovis: A Journal of Communication, Culture, and Technology*. 10(1). <http://stuartgeiger.com/papers/gnovis-habermas-blogpublic-sphere.pdf>

Peer-Reviewed Conference Proceedings:

12. **Geiger, R.S.**, K. Yu, Y. Yang, M. Dai, J. Qiu, R. Tang, and J. Huang. (2020). "Garbage In, Garbage Out: Do Machine Learning Application Papers in Social Computing Report Where Human-Labeled Training Data Comes From?" *Proceedings of the ACM Conference on Fairness, Accountability, and Transparency (FAT* 2020)*. <https://stuartgeiger.com/papers/gigo-fat2020.pdf>
13. **Geiger, R.S.** (2019). "The Rise and Fall of the Note: Changing Paper Lengths in ACM CSCW, 2000-2018." In *Proceedings of the ACM on Human-Computer Interaction*. (CSCW

- 2019). <https://doi.org/10.1145/3359324> <https://arxiv.org/abs/1908.10808>
14. **Geiger, R.S.** and Halfaker, A. (2017). "Operationalizing conflict and cooperation between automated software agents in Wikipedia: A replication and expansion of Even Good Bots Fight." In *Proceedings of the ACM on Human-Computer Interaction* (Nov 2017 issue, CSCW 2018 Online First). <https://doi.org/10.1145/3134684>
 15. Halfaker, A., **Geiger, R.S.**, and Terveen, L. (2014). "Snuggle: Designing for Efficient Socialization and Ideological Critique." In *Proceedings of the 2014 ACM Conference on Human Factors in Computing (CHI 2014)*. <http://stuartgeiger.com/papers/snuggle-chi.pdf>
 16. **Geiger, R.S.** and Halfaker, A. (2013). "When the Levee Breaks: Without Bots, What Happens to Wikipedia's Quality Control Processes?" In *Proceedings of the 9th International Symposium on Wikis and Open Collaboration (WikiSym 2013)*. <http://stuartgeiger.com/wikisym13-cluebot.pdf>
 17. **Geiger, R.S.** and Halfaker, A. (2013). "Using Edit Sessions to Measure Participation in Wikipedia." In *Proceedings of the 2013 ACM Conference on Computer Supported Cooperative Work (CSCW 2013)*. <http://www.stuartgeiger.com/cscw-sessions.pdf>
 18. **Geiger, R.S.**, A. Halfaker, M. Pinchuk, and S. Walling (2012). "Defense Mechanism or Socialization Tactic? Improving Wikipedia's Notifications to Rejected Contributors." In *Proceedings of the 2012 International Conference on Weblogs and Social Media (ICWSM 2012)*. <http://www.aai.org/ocs/index.php/ICWSM/ICWSM12/paper/view/4657>
 19. Ford, H. and **R.S. Geiger**. (2012). "'Writing up rather than writing down': Becoming Wikipedia Literate." In *Proceedings of the 8th International Symposium on Wikis and Open Collaboration (WikiSym 2012)*. New York: ACM Digital Library. <http://www.stuartgeiger.com/becoming-wikipedia-literate.pdf>
 20. **Geiger, R.S.**, Y.J. Jeong, and E. Manders (2012). "Black-Boxing the User: Internet Protocol over Xylophone Players." In *Proceedings of the 2012 ACM Conference on Human-Computer Interaction (alt.CHI 2012)*. New York: ACM Digital Library. <http://dl.acm.org/citation.cfm?id=2212785>
 21. **Geiger, R.S.** and H. Ford. (2011) "Participation in Wikipedia's Deletion Processes." In *Proceedings of the 7th International Symposium on Wikis and Open Collaboration (WikiSym 2011)*. New York: ACM Digital Library. <http://dx.doi.org/10.1145/2038558.2038593>
 22. **Geiger, R.S.** and D. Ribes (2011). "Trace Ethnography: Following Coordination through Documentary Practices." In *Proceedings of the 44th Annual Hawaii International Conference on System Sciences (HICSS)*. <http://dx.doi.org/10.1109/HICSS.2011.455>. **Best paper award nomination**
 23. **Geiger, R.S.** and D. Ribes (2010). "The Work of Sustaining Order in Wikipedia: The Banning of a Vandal." In *Proceedings of the 2010 ACM Conference on Computer-Supported Cooperative Work (CSCW 2012)*. New York: ACM Digital Library. <http://dl.acm.org/citation.cfm?id=1754485>

<http://dx.doi.org/10.1145/1718918.1718941>

24. **Geiger, R.S.** (2009). “The Social Roles of Bots and Assisted Editing Tools.” In *Proceedings of the 5th International Symposium on Wikis and Open Collaboration*. New York: ACM Digital Library. <http://dx.doi.org/10.1145/1641309.1641351>

Book Chapters and Conference Proceedings (non-peer reviewed):

25. **Geiger, R.S.** and Lampinen, A. (2014). “Old Against New, or a Coming of Age? Broadcasting in an Era of Electronic Media.” *Journal of Broadcasting and Electronic Media* 58(3). <http://www.tandfonline.com/doi/full/10.1080/08838151.2014.935855>
26. **Geiger, R.S.** (2011). “The Lives of Bots.” In G. Lovink and N. Tkacz (eds.) In *Wikipedia: A Critical Point of View*. Amsterdam: Institute of Network Cultures. <http://www.stuartgeiger.com/lives-of-bots-wikipedia-cpov.pdf>
27. Matias, N. and **Geiger, R.S.** (2015). “Defining, Designing, and Evaluating Civic Values in Human Computation and Collective Action Systems.” In *Proceedings of HCOMP 2014, Citizen-X Workshop*. <http://stuartgeiger.com/defining-civic-values-hcomp-matias-geiger.pdf>

Reports, Working Papers, and Preprints (non-peer reviewed):

28. **Geiger, R.S.**, O. DeMasi, A. Culich, A. Zoglauer, D. Das, F. Hoces de la Guardia, K. Ottoboni, M. Fenner, N. Varoquaux, R. Barter, R. Barnes, S. Stoudt, S. Dorton, S. van der Walt. (2019). “Best Practices for Fostering Diversity and Inclusion in Data Science.” *BIDS Best Practices in Data Science Series*. Berkeley, CA: Berkeley Institute for Data Science. <https://doi.org/10.31235/osf.io/8gsjz>
29. **Geiger, R.S.**, D. Sholler, A. Culich, C. Martinez, F. Hoces de la Guardia, F. Lanusse, K. Ottoboni, M. Stuart, M. Vareth, N. Varoquaux, S. Stoudt, and S. van der Walt. (2018). “Challenges of Doing Data-Intensive Research in Teams, Labs, and Groups.” *BIDS Best Practices in Data Science Series*. Berkeley Institute for Data Science: Berkeley, California. <https://doi.org/10.31235/osf.io/a7b3m>
30. D. Sholler, D. Das, F. Hoces de la Guardia, C. Hoffmann, F. Lanusse, N. Varoquaux, R. Garcia, **R.S. Geiger**, S. McDevitt, S. Peterson, S. Stoudt. (2019). “Best Practices for Managing Turnover in Data Science Groups, Teams, and Labs.” *BIDS Best Practices in Data Science Series*. Berkeley, CA: Berkeley Institute for Data Science. <https://doi.org/10.31235/osf.io/wsrxru>
31. **Geiger, R.S.**, C. Mazel-Cabasse, C. Cullens, L. Noren, B. Fiore-Gartland, D. Das, and H. Brady (2018). “Career Paths and Prospects in Academic Data Science: Report of the Moore-Sloan Data Science Environments Survey.” Report. Berkeley, California: UC-Berkeley Institute for Data Science. <https://doi.org/10.31235/osf.io/xe823>
32. **Geiger, R.S.** (2017). “Summary Analysis of the 2017 GitHub Open Source Survey.” *SocArXiv Preprints*. <https://doi.org/10.31235/osf.io/qps53>

Open-Source Software and Open Data Projects:

33. **Geiger, R.S.** (2019). “ArXiv Archive: A tidy and complete archive of metadata for papers on arxiv.org, 1993-2019.” *Zenodo*. <http://doi.org/10.5281/zenodo.1463242>
34. **Geiger, R.S.**, Paxton, A., and Haines, R. (2017). “Academicpages.github.io: a ready-to-fork GitHub Pages template for personal academic websites.” *GitHub*. <https://academicpages.github.io>. **Over 3,500 users.**
35. **Geiger, R.S.** (2017). “Getorg: a Python library for querying information and analytics about GitHub organizations.” *GitHub*. <https://github.com/getorg/getorg>

Awards and Honors:

Grants and Fellowships:

1. **Geiger, R.S. (Lead PI)** and L. Irani. (2018). Grant from the Alfred P. Sloan Foundation and the Ford Foundation. “The Work and Life of Maintaining and Sustaining Free and Open Source Digital Infrastructure.” **\$17,749**
2. **Geiger, R.S. (Lead PI)**, L. Irani, A. Paxton, N. Varoquaux, C. Holdgraf, and D. Howard. (2018). Grant from the Alfred P. Sloan Foundation and the Ford Foundation. “The Visible and Invisible Work of Maintaining Open-Source Software.” **\$138,055**
3. **Geiger, R.S. (Lead PI)**, L. Irani, A. Paxton, N. Varoquaux, C. Holdgraf, and D. Howard. (2018). Grant from the Alfred P. Sloan Foundation and the Ford Foundation. “The Visible and Invisible Work of Maintaining Open-Source Software.” **\$138,055**
4. Burrell, J. (Lead PI) and **Geiger, R.S.** (2014). Grant from UC-Berkeley Social Science Matrix. “Prospecting Seminar on ‘Algorithms as Computation and Culture.’” **\$1,500**
5. **Geiger, R.S.** M. Romolini, S. Record, R. Garvoille, Y. Marusenko. (2013). Grant from UC-Berkeley Research Impact Initiative (BRII) for Open Access Publication Fees, **\$950**
6. **Geiger, R.S.** (2013). Doctoral Completion Fellowship, UC-Berkeley Graduate Division, **\$35,385**
7. **Geiger, R.S.** (2010). School of Information Fellowship, UC-Berkeley School of Information, **\$87,701**

Awards:

8. **Best presentation award:** Awarded at the 2018 *Annual European Conference on Computer-Supported Cooperative Work (ECSCW)*: Nancy, France, June 7, 2018. For “The Types, Practices, and Roles of Documentation.”
9. **Best paper award (1st runner up):** The 2018 David B. Martin Best Paper Award (1st runner up), from the European Society for Socially Embedded Technologies. For “The Types, Practices, and Roles of Documentation,” with N. Varoquaux, C. Cabasse-Mazel, and C. Holdgraf.
10. **Best paper award nomination:** Awarded at the 2011 Hawaii International Conference on Systems Sciences (HICSS). For “Trace Ethnography: Following Coordination through Documentary Practices,” with D. Ribes.
11. **Top paper award:** Awarded at the 2009 *Annual Conference on Science and Technology in*

Society, sponsored by the American Association for the Advancement of Science.

Talks and Appearances

Conference Keynotes:

1. **Geiger, R.S.** (2019). “The Visible and Invisible Work of Maintaining and Sustaining Open-Source Software.” Keynote at SciPy 2019, Austin, Texas. July 10, 2019.
2. **Geiger, R.S.** (2018). “Key Values: What We Talk About When We Talk About ‘Open Science.’” Keynote at the Hawai’i Open Science Symposium, Manoa, HI. Apr 20, 2018.
3. **Geiger, R.S.** and Halfaker, A. (2018). “Qualitative and Quantitative Methods: A Fireside Chat.” Keynote at ACM Symposium on Open Collaboration (OpenSym) 2018, Paris, France. Aug 23, 2018.

Invited Talks:

4. **Geiger, R.S.** (2019). “Documenting Data Science and Documentation in Data Science: an Ethnographic Exploration.” Talk at the eScience Institute (Distinguished Young Academic Data Scientist series), University of Washington, Seattle, WA, Jan 24, 2019.
5. **Geiger, R.S.** (2019). “Cooking Data with Care: The Role of Contextual Inquiry in Large-Scale Quantitative Research.” Talk at the eScience Institute, University of Washington, Seattle, WA, Jan 23, 2019.
6. **Geiger, R.S.** (2018). “The Human Contexts of Data: Infrastructures, Institutions, and Interpretations.” Talk at the Design Lab, University of California at San Diego, La Jolla, CA. May 9, 2018.
7. **Geiger, R.S.** (2018). “Computational Ethnography and the Ethnography of Computation: The Case for Context.” Talk at ETHOSlab, IT University of Copenhagen, Copenhagen, Denmark. Mar 26, 2018.
8. **Geiger, R.S.** (2018). “The Human Contexts of Data: Infrastructures, Institutions, and Interpretations.” Talk at Manchester Data Science Institute, University of Manchester, Manchester, UK. Mar 22, 2018.
9. **Geiger, R.S.** (2018). “Computational Ethnography and the Ethnography of Computation: The Case for Context.” Talk at the College of Information Studies, University of Maryland at College Park, College Park, MD. Feb 26, 2018.
10. **Geiger, R.S.** (2018). “Computational Ethnography and the Ethnography of Computation: The Case for Context.” Talk at the School of Information Sciences, University of Illinois at Urbana-Champaign, Urbana, IL. Feb 12, 2018.
11. **Geiger, R.S.** (2018). “Computational Ethnography and the Ethnography of Computation: The Case for Context.” Talk at the School of Information and Library Science, University of North Carolina at Chapel Hill, Chapel Hill, NC. Jan 11, 2018.

12. **Geiger, R.S.** (2017). “The Humanity of Artificial Intelligence.” Talk at *The Bay Area Science Festival*: Albany, California. Nov 1, 2017.

Conference Presentations:

13. Geiger, R.S. (2020). “Digital Infrastructure: Labor, Roles and Incentives.” Virtual event organized by the Ford and Sloan Foundations. Aug 20th, 2020.
14. Geiger, R.S. and Howard, D. (2020). “‘I didn’t sign up for this’: The Invisible Work of Maintaining Free/Open-Source Software Communities.” Presented at the *2020 Annual Meeting of the Society for the Social Study of Science (4S)*. Virtual. August 18th, 2020.
15. **Geiger, R.S.** (2018). “The Types, Roles, and Practices of Documentation in Data Analytics Open Source Software Libraries: A Collaborative Ethnography of Documentation Work.” Presented at the *2018 Annual European Conference on Computer-Supported Cooperative Work (ECSCW)*: Nancy, France, June 7, 2018. Best presentation award.
16. **Geiger, R.S.** (2018). “Knowing User Populations at Scale: From the Science of the State to Platform Governmentality.” Presented at the *2018 Annual Conference of the International Communication Association*: Prague, Czech Republic, May 27, 2018.
17. **Geiger, R.S.**, Fiore-Gartland, B. and Cabasse-Mazel, C. (2017). “Jupyter Notebooks and the Changing Rituals around Computation.” Presented at *JupyterCon*: New York, New York. Aug 25, 2017.
18. **Geiger, R.S.** (2017). “Autoethnographic Methods for Studying Data-Driven Knowledge Production.” Presented at the *2017 Annual Meeting of the Society for the Social Study of Science (4S)*: Boston, Massachusetts. Aug 31, 2017.
19. **Geiger, R.S.** (2017). “Demystifying Algorithmic Processes: The Case of Wikipedia.” Presented at *Platform Law: The 21st Annual Berkeley Center for Law & Technology Symposium*: Berkeley, California. Apr 20, 2017.
20. **Geiger, R.S.**, Cullens, C., Cabasse-Mazel, C., and Brady, H. (2016). “Results of the Moore-Sloan Data Science Environments (MSDSE) Survey on Career Paths in Data Science.” Presented at the *2016 Data Science Summit*: New York, New York. Oct 26, 2016.
21. **Geiger, R.S.** (2016). “‘The Wisdom of Bots’: An ethnographic study of the delegation of governance work to information infrastructures in Wikipedia.” Presented at the *2016 Annual Meeting of the Society for the Social Study of Science (4S)*: Barcelona, Spain. Sep 2, 2016.
22. **Geiger, R.S.** (2016). “Community Sustainability in Wikipedia: A Review of Research and Initiatives.” Presented at *PyData*: San Francisco, California. Aug 13, 2016.
23. **Geiger, R.S.** (2016). “Governing Open Source Projects at Scale: Lessons from Wikipedia’s Growing Pains.” Presented at *SciPy 2016*: Austin, Texas. Jul 16, 2016.
24. **Geiger, R.S.** (2016). “Administrative Support Bots in Wikipedia: How Automation Can Transform the Affordances of Platforms and the Governance of Communities.” Presented at *Communicating with Machines* workshop: Fukuoka, Japan. Jun 14, 2016.
25. **Geiger, R.S.** (2016). “Drowning in Data: Industry and Academic Approaches to Mixed Methods

- in “Holistic” Big Data Studies.” Panel at the *Annual Meeting of the International Communication Association (ICA 2016)*: Fukuoka, Japan. Jun 11, 2016.
26. **Geiger, R.S.** (2016). “Successor Systems: Lessons for Big Data From Feminist Epistemology and Activism.” Presented at *Big Data: Critiques and Alternatives* workshop: Fukuoka, Japan. Jun 9, 2016.
 27. **Geiger, R.S.** (2016). “Algorithms as agents of gatekeeping, governance, and articulation work in Wikipedia.” Presented at *Algorithms, Automation, and Politics* workshop: Fukuoka, Japan. Jun 8, 2016.
 28. Fiore-Gartland, B. and **Geiger, R.S.** (2016). “‘What the hack?’ Hacking culture and discourse in data science pedagogy.” Presented at *Theorizing the Web*: New York, New York. Apr 15, 2016.
 29. **Geiger, R.S.** (2016). “Moderating harassment in Twitter with blockbots: a counterpublic and algorithmic strategy.” Presented at *Theorizing the Web*: New York, New York. Apr 15, 2016.
 30. **Geiger, R.S.** (2015). “The Bot Multiple: Unpacking the Materialities of Automated Software Agents.” Presented at the *2015 Annual Meeting of the Society for the Social Study of Science (4S)*: Denver, Colorado. Nov 12, 2015.
 31. **Geiger, R.S.** (2015). “Bot-Based Collective Blocklists in Twitter: The Counterpublic Moderation of a Privately-Owned Networked Public Space.” Presented at *Internet Research 16 (IR 16)*. Sponsored by the *Association of Internet Researchers (AoIR)*: Phoenix, Arizona. Oct 22-24, 2015.
 32. **Geiger, R.S.** (2015). “But it Wouldn’t Be an Encyclopedia; It Would Be a Wiki: Wikipedia and the Repurposing of WikiWikiWeb.” Presented at *the Annual Meeting of the International Communication Association (ICA)*, San Juan, Puerto Rico. May 25, 2015.
 33. **Geiger, R.S.** (2015). “Situated knowledges and successor systems: developing CSCW systems to enact ideological critiques.” Presented at CSCW Workshop on *Feminism and Feminist Approaches in Social Computing*, Vancouver, BC. Mar 15, 2015.
 34. **Geiger, R.S.** (2015). “Does Facebook Have Civil Servants? On Governmentality and Computational Social Science.” Presented at CSCW Workshop on *Ethics for Studying Sociotechnical Systems in a Big Data World*, Vancouver, BC. Mar 15, 2015.
 35. **Geiger, R.S.** (2014). “Successor systems: the role of reflexive algorithms in enacting ideological critique” Presented at the *2014 Annual Meeting of the Society for the Social Study of Science (4S)*: Buenos Aires, Argentina, Aug 20-23, 2014.
 36. **Geiger, R.S.** (2014). “Successor systems: the role of reflexive algorithms in enacting ideological critique.” Presented at *Internet Research 15 (IR 15)*. Sponsored by the *Association of Internet Researchers (AoIR)*: Daegu, South Korea, Oct 22-24, 2014.
 37. **Geiger, R.S.** (2014). “The Materiality of Bots.” Presented at *Robots and New Media*. Sponsored by the Berkeley Center for New Media. Berkeley, CA. Apr 14, 2014.
 38. **Geiger, R.S.** (2013). “Design by Bot: Power and Resistance in the Development of Automated Software Agents.” Presented at *Internet Research 14 (IR 14)*. Sponsored by the

- Association of Internet Researchers (AoIR)*: Denver, CO, Oct 23-26, 2013.
39. **Geiger, R.S.** (2013). "Hadoop as Grounded Theory: Is an STS Approach to Big Data Possible?" Presented at the *2013 Annual Meeting of the Society for the Social Study of Science (4S)*. Sponsored by the Society for the Social Study of Science: San Diego, CA, Oct 9-12, 2013.
 40. **Geiger, R.S.** (2013). "Values Where? Interrogating Client-Side Scripting as a Design Process" Presented at *Theorizing the Web*. Sponsored by CUNY Graduate Center: New York, NY, Mar 1-2, 2013.
 41. **Geiger, R.S.** (2012) "Time to Degree: Examining the Experiences of Graduate Students in the Long-Term Ecological Research Network." Presented at the *2012 Annual Meeting of the Society for the Social Study of Science (4S)*: Copenhagen, Denmark, Oct 17-20, 2012.
 42. **Geiger, R.S.** and Ford, H. (2012) "Trace literacy: a framework for holistically conceptualizing newcomer socialization in socio-technical systems." Presented at *Infosocial*. Sponsored by the Northwestern Media, Technology, and Society Program: Evanston, IL, Oct 12-13, 2012
 43. **Geiger, R.S.** (2012) "Improving Wikipedia's Notifications to Rejected Contributors." Presented at *GCOE International Symposium on Informatics Education*. Sponsored by Kyoto University Global Center of Excellence: Kyoto, Japan, Mar 30-31, 2012.
 44. **Geiger, R.S.** (2011). "User-Generated Platforms in Wikipedian Governance." Paper presented at the *2011 Annual Meeting of the Society for the Social Study of Science (4S)*. Sponsored by the Society for the Social Study of Science: Cleveland, OH, Nov 2-5, 2011.
 45. **Geiger, R.S.** (2011). "'The Internet is Here': The Virtuality of 'On-line Communities in Physical Spaces.'" Paper presented at the *2011 Annual Meeting of the Society for the Social Study of Science*. Sponsored by the Society for the Social Study of Science: Cleveland, OH, Nov 2-5, 2011.
 46. **Geiger, R.S.** (2011). "Machine-Generated Content: Bots and the Governance of Wikipedia." Presented at *Digital Media and Learning 2011*. Sponsored by the DML Central: Long Beach, CA, March 3-5, 2011.
 47. **Geiger, R.S.** (2010). "The Wisdom of Bots: A Critique of 'Self-Organization' in Wikipedia." Presented at *Critical Point of View: Wikipedia and the Politics of Open Knowledge*. Sponsored by the Centre for Internet and Society: Bangalore, India, January 10-12, 2010.
 48. **Geiger, R.S.** (2010). "Bot Politics: How is Automation Changing the Wikipedian Society?" Presented at *Critical Point of View II*. Sponsored by the Institute for Networked Cultures: Amsterdam, Netherlands. March 26-27, 2010.
 49. **Geiger, R.S.** (2009). "Where Are the Missing Wikipedians? The Sociology of a Bot." Paper presented at the *2009 Annual Meeting of the Society for the Social Study of Science*. Sponsored by the Society for the Social Study of Science: Arlington, VA, Oct 28-31, 2009.
 50. **Geiger, R.S.** and D. Ribes. (2009). "Trace Ethnography: An ANT Method for the Study of Sociotechnical Networks." Presented at the *Second Annual Media Sociology Forum*. Sponsored by New York University: New York, New York, September 25, 2009.
 51. **Geiger, R.S.** (2009). "Algorithmic Governance: The Social Roles of Bots and Assisted Editing

Tools." Presented at the *First Annual Wikiconference NYC*. Sponsored by the Wikimedia Foundation: New York, New York, July 25-26, 2009.

52. **Geiger, R.S.** (2009). "Evolving Governance and Media Use in Wikipedia: A Historical Account." Presented at *Media in Transition 6*. Sponsored by Massachusetts Institute of Technology: Cambridge, MA, April 24-26, 2009.
53. **Geiger, R.S.** (2009). "Working With/in Wikipedia: Infrastructures of Knowing and Knowledge Production." Presented at the *9th Annual Conference on Science and Technology in Society*. Sponsored by the American Association for the Advancement of Science: Washington, DC, March 28-29, 2009. Top Paper Award.
54. **Geiger, R.S.** (2008). "Conceptions and Misconceptions Academics Hold About Wikipedia." Presented at the *4th Annual Wikimedia Conference (Wikimania 2008)*. Sponsored by the Wikimedia Foundation: Library of Alexandria, Egypt, July 17-19, 2008.
55. **Geiger, R.S.** (2008). "A Communicative Ethnography of Argumentative Strategies in a Wikipedian Content Dispute." Presented at *Exploring New Media Worlds*. Sponsored by the National Communication Association and Texas A&M University, Department of Communication: College Station, Texas, Feb 29 - Mar 2, 2008.

Conference Posters:

56. **Geiger, R.S.** "Software Agents as Social Agents." Poster presented at the *2013 ACM Conference on Computer Supported Cooperative Work (CSCW 2013)*. Sponsored by the Association for Computing Machinery: San Antonio, TX, Feb 23-27, 2013.
57. Ribes, D. and **R.S. Geiger**. (2009). "How are information technologies reshaping collaboration in LTER?" Poster presented at the *Eleventh Annual Meeting of the Baltimore Ecosystem Study*. Sponsored by the Baltimore Ecosystem Study: Baltimore, Maryland, Oct 21-23, 2009.
58. Ribes, D., S. Jackson, **R.S. Geiger**, M. Burton, and T. Finholt. (2009). "VOSS: Delegating Organizational Work to Virtual Organization Technologies." Poster presented at the *2009 Annual Meeting of the Long-Term Ecological Research Network*. Sponsored by the Long-Term Ecological Research Network: Estes Park, Colorado, Sept 14-16, 2009.
59. **Geiger, R.S.** (2008). "The Wikipedian Discourse: A Foucauldian Analysis of Power Relations." Poster presented at the *94th Annual Convention of the National Communication Association*. Sponsored by the National Communication Association: San Diego, California, November 21-26, 2008.

Guest Lectures:

60. Geiger, R.S. (2019). "Open Science & Reproducibility Movements as Ethical Movements Within Data Science." Guest lecture, UC-Berkeley School of Information. Behind the Data: Humans and Values (INFO 188). Prof. Deirdre Mulligan.
61. **Geiger, R.S.** (2019). "What We Talk About When We Talk About Open Science." Guest lecture, UC-Berkeley Division of Data Sciences. Open Science: A Data Science Connector (LS 88), Profs. Eric Van Dusen, Josh Quan.

62. **Geiger, R.S.** (2018). “Publics: Witnessing and Measuring.” Guest lecture, UC-Berkeley Division of Data Sciences. Human Contexts and Ethics of Data (HIST 182C, STS 100C), Profs. Cathryn Carson and Margo Boenig-Liptsin.
63. **Geiger, R.S.** (2017). “Are the bots really fighting? Behind the scenes of a reproducible replication.” Guest lecture, UC-Berkeley Department of Statistics. Reproducible and Collaborative Data Science (STAT 159/259), Prof. Fernando Perez.
64. **Geiger, R.S.** (2017). “Participation and Power.” Guest lecture, UC-Berkeley Interdisciplinary Studies Field. The Social Life of Computing (ISF 100J), Prof. Shreeharsh Kelkar.
65. **Geiger, R.S.** and Cabasse-Mazel, C. (2016). “Digital Research.” Guest lecture, UC-Berkeley Interdisciplinary Studies Field. Interdisciplinary Research Methods (ISF 189), Prof. Shreeharsh Kelkar.
66. **Geiger, R.S.** (2015). “Peer Production and Wikipedia.” Guest lecture, UC-Berkeley School of Information. Social Aspects of Information Systems (INFO 203), Prof. Jenna Burrell.
67. **Geiger, R.S.** (2015). “Moderating Online Conversation Spaces.” Guest lecture, UC-Berkeley School of Information. Social Aspects of Information Systems (INFO 203), Prof. Jenna Burrell.
68. **Geiger, R.S.** (2014). “Governing the Commons.” Guest lecture, UC-Berkeley School of Information. History of Information (INFO 102), Profs. Paul Duguid and Geoffrey Nunberg.
69. **Geiger, R.S.** (2013). “Actor-Network Theory.” Guest lecture, UC-Berkeley School of Information. Social Aspects of Information Systems (INFO 203), Prof. Jenna Burrell.

Teaching:

Traditional Courses:

Instructor of Record, UC San Diego Department of Communication (Spring 2021)

Description: COGR 201C, Discourse Analysis, a graduate methods seminar.

Instructor of Record, UC-Berkeley Department of Sociology (Summer 2014)

Description: SOC-167, Sociology of Social Media and Virtual Communities, a 35 person upper-division undergraduate course.

Adjunct Instructor, UC-Berkeley Department of Sociology (Spring 2014)

Description: SOC-167, Sociology of Social Media and Virtual Communities, a 250 person upper-division undergraduate course. Course shared with two other adjunct instructors.

Graduate Student Instructor, UC-Berkeley School of Information (Spring 2014)

Description: INFO-103, History of Information, a 60 student undergrad course. Teaching assistant role. Reference: Paul Duguid

Graduate Student Instructor, UC-Berkeley School of Information (Spring 2012, Spring 2013)

Description: INFO-203, Social Aspects of Information, a 60 student masters-level course. Teaching assistant role. Reference: Jenna Burrell

Teaching assistant, Georgetown University CCT Program (Fall 2009)

Description: CCTP-783, Qualitative Data Analysis, a core methods graduate-level course..
Reference: David Ribes

Teaching assistant, Georgetown University CCT Program (Fall 2008)

Description: CCTP-505, Introduction to Communication, Culture, and Technology, a required course for first-year graduate students. **Reference:** Jeanine Turner and Michael Coventry

Non-traditional courses:

Undergraduate Research Apprenticeship Mentor, UC-Berkeley (Fall 2018 - present)

Description: An instructor/mentor for UC-Berkeley's Undergraduate Research Apprenticeship Program (URAP), in which students assist with research activities for course credit. For the 2018-9 academic year, I have led a team of five students on a meta-research project about the quality of training data for machine learning, which includes weekly meetings and one-on-one interaction as necessary.

Software and Data Carpentry Instructor, The Carpentries (May 2016 - present)

Description: Software and Data Carpentry is an international non-profit organization that teaches computing and data science skills to researchers in short, no-cost workshops (2-5 days). Becoming a certified software carpentry instructor involved taking a programming-focused pedagogy course, assisting a veteran instructor with running a workshop, then passing a teaching evaluation in a live classroom setting.

Peer learning group coordinator, UC-Berkeley BIDS (Fall 2016, Spring 2017, Fall 2017)

Description: For three semester, I led *The Hacker Within*, a peer learning group run out of the Berkeley Institute for Data Science, where learners meet 1.5-2 hours a week to teach each other a new language, library, platform, concept, or other topic related to data science and scientific computing. Duties included: Developing the weekly schedule, finding experts to lead each week's session, consulting with session leaders to develop lessons, maintaining computational infrastructure for the group, and outreach to campus and community.

Professional Service:

Conference organization:

ACM Collective Intelligence (CI) program committee member, 2019-present

ACM Computer-Supported Cooperative Work (CSCW) steering committee member, student position, (2015-2016)

ACM CSCW 2017 panels co-chair (2016-2017)

Co-organizer for "Data Science Studies / Critical Data Studies" track at 2016, 2017, and 2018 meeting of the Society for the Social Studies of Science (4S)

Journal organization:

Advisory board member, Social Media + Society (2015-present)

Edited special issue of the *Journal of Broadcasting and Electronic Media* (2013-2014)

Campus organizations:

Founding member, UC-Berkeley Algorithms in Culture Working Group (2016-2017)

Founding member, UC-Berkeley Data Science Studies Working Group (2017-present)

Founding member, UC-Berkeley Algorithmic Fairness and Opacity Working Group (2017-present)

Founding member, UC-Berkeley Working Group on Diversity and Inclusion in Data Science (2018-present)

Workshops and seminar series:

Co-organizer, workshop series on Diversity & Inclusion in Data Science, Spring 2019

Lecturer, workshop on Qualitative & Quantitative Methods, UW-Seattle, January 2019

Lecturer, workshop on Digital Media Ethnography, Aarhus University, April 2018

Co-organizer, workshop on Keeping Computation Open to Interpretation, ITU Copenhagen, March 2018

Co-organizer, workshop on Hacking and Making at Time-Bounded Events, CSCW 2017

Co-organizer, Data Rescue SF Bay, February 2017

Co-organizer, workshop on Trace Ethnography, iConference 2015

Organizer, “Algorithms as Computation and Culture” seminar series, UC-Berkeley (2014-2015)

Assistant, digitalSTS workshop series (2013-2015)

Peer reviewing:

Conferences: ACM Conference on Human Factors in Computing (CHI) and alt.chi; ACM Conference on Computer-Supported Cooperative Work (CSCW); ACM Conference on Collective Intelligence (CI); AAAI International Conference on Weblogs and Social Media (ICWSM); IEEE Hawaii International Conference on Systems Sciences (HICSS); iConference; ACM International Symposium on Wikis and Open Collaboration (WikiSym, OpenSym); International Communication Association conference (ICA)

Journals: Computer-Supported Cooperative Work (JCSCW); New Media and Society; Information, Communication, and Society; Journal of Broadcasting and Electronic Media; Social Media and Society; Science, Technology, and Human Values; Journalism; IEEE Computer; International Journal of Communication

Professional association membership:

Association for Computing Machinery (ACM), Society for the Social Studies of Science (4S), Association for the Advancement of Artificial Intelligence (AAAI), International Communication Association (ICA), Association of Internet Researchers (AoIR), American

Anthropological Association (AAA)

Selected Media Coverage:

1. *Wired*: “Internet Bots Fight Each Other Because They’re All Too Human.” By Matt Simon, 1 March 2017: <https://www.wired.com/2017/03/internet-bots-fight-theyre-human/>
2. *The New Yorker*: “Annals of Technology: How a Raccoon Became an Aardvark.” By Eric Randall, 19 May 2014: <https://www.newyorker.com/tech/annals-of-technology/how-a-raccoon-became-an-aardvark>
3. *The Atlantic*: “The Tragedy of the Digital Commons.” By J. Nathan Matias, 8 Jun 2015: <https://www.theatlantic.com/technology/archive/2015/06/the-tragedy-of-the-digital-commons/395129/>
4. *The Guardian*: “Two cases of Twitter abuse highlight the obscure nature of suspensions.” By Olivia Solon, 9 January 2017: <https://www.theguardian.com/technology/2017/jan/09/twitter-abuse-martin-shkreli-lauren-duca-alexandra-brodsky>
5. *Newsweek*: “Wikipedia is Edited By Bots. That’s a Good Thing.” By Joe Kloc, 25 February 2014: <https://www.newsweek.com/wikipedia-edited-bots-thats-good-thing-230234>
6. *The Wall Street Journal*: “Despite Data Thefts, the Password Endures.” By Danny Yadrom and Katherine Rosman, 21 May 2014: <https://www.wsj.com/articles/despite-data-thefts-the-password-endures-1400725381>
7. *The Mercury News*: “Designing a chatbot: male, female or gender neutral?” By Queenie Wong, 23 January 2017. <https://phys.org/news/2017-01-chatbot-male-female-gender-neutral.html>

Research Fields, Interests, and Methods:

Disciplinary: science and technology studies (STS), computer-supported cooperative work (CSCW), human-computer interaction, social informatics, organizational sociology, media and communication studies, data science

Theoretical: socio-technical systems, situated knowledges, communities of practice, ethnomethodology, symbolic interactionism, distributed cognition, actor-network theory

Methodological:

- Ethnography, including interviews, participant-observation, and focus groups
- Survey methods, including questionnaire development, distribution, and analysis
- Archival research & analysis, including individual & group-based qualitative coding
- Quantitative collection & analysis of log and trace data with Python, SQL, and Jupyter
- User interface design, including experimental testing and participatory design
- Inductive, mixed-methodological approaches to answer complex socio-technical questions and problems using the above methods, as appropriate and relevant