

BRIAN ROBERT CALLAHAN

Curriculum vitae

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Troy, NY 12180
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EDUCATION

- Ph.D.** Science & Technology Studies, Rensselaer Polytechnic Institute, Troy, NY
August 2018
Dissertation: *Complexities of Collaboration: An Open Source Story*
Dissertation Advisor: Mike Fortun
- MS** Science & Technology Studies, Rensselaer Polytechnic Institute, Troy, NY
December 2015
- MA** Anthropology, Monmouth University, West Long Branch, NJ
August 2014
Thesis: *From Basson to Fagott: Evolution vs. Revolution*
Thesis Advisor: William P. Mitchell
- BHA** Music Performance & Anthropology, Carnegie Mellon University, Pittsburgh, PA
May 2009
College Honors
University Honors

REFEREED PUBLICATIONS

Journal Articles

Fortun, Kim, Brian Callahan, Bradley Fidler, Alison Kenner, Aalok Khandekar, Alli Morgan, Lindsay Poirier, and Mike Fortun. In Review. "Hosting the Platform for Experimental, Collaborative Ethnography." *American Anthropologist*.

Callahan, Brian Robert, Charles Hathaway, and Mukkai Krishnamoorthy. 2016. "Quantitative Metrics for Generative Justice: Graphing the Value of Diversity." *Teknokultura* 13(2): 567-586.

Book Chapters

Fortun, Mike, Lindsay Poirier, Alli Morgan, Brian Callahan, and Kim Fortun. In Print. "What's so funny 'bout PECE, TAF, and Data Sharing?" In *Collaborative Anthropology Today: A Collection of Exceptions*, edited by Dominic Boyer and George E. Marcus. Cornell University Press.

Eglash, Ron, William Babbitt, Audrey Bennett, Kathryn Bennett, Brian Callahan, James Davis, John Drazen, et al. 2016. "Culturally Situated Design Tools: Generative Justice as a Foundation for STEM Diversity." In *Moving Students of Color from Consumers to Producers of Technology*, edited by Yolanda Rankin and Jakita

Thomas, 132-151. Hershey, PA: IGI Global.

Conference Proceedings

Callahan, Brian Robert. 2016. "SocialBSD: A Review of Diversity and Inclusivity Initiatives in the *BSD Community and Imagining Future Pathways." Proceedings of AsiaBSDCon 2016: 167-176.

GRANTS AND FELLOWSHIPS

2020 Teaching and Learning Collaboratory Seed Grant: *The Rensselaer Cybersecurity Collaboratory*

Rensselaer Polytechnic Institute, Brian Callahan, PI

2014-2016 GK-12/3Helix Fellowship, NSF

Rensselaer Polytechnic Institute, Ron Eglash, PI

CONFERENCE PARTICIPATION

Papers presented

- 2020** "The education of hacking: A year of teaching all the things," BSidesROC 2020, Rochester, NY. Mar. 21, 2020. (Cancelled/COVID-19)
- 2019** "Learning to (Open)BSD through its porting system," vBSDCon 2019, Reston, VA, Sep. 5-7, 2019.
- 2018** "Making it all work: The Infrastructures and Limits of (Digital) Collaboration," Institutions and Societies 2018, SUNY Albany, Albany, NY, Feb 23, 2018.
- 2017** "Coding Collaboration: Exploring a Definition Through a Transgender Hacker Collective," American Anthropological Association Annual Meeting 2017, Washington, D.C., Nov. 29-Dec. 3, 2017.
- 2017** "Leveraging Collaborative Mentorship to Strengthen Your Free Software Community" (with Lisa Marie Maginnis), Seattle GNU/Linux Conference, Seattle Central University, Seattle, WA, Oct. 6-7, 2017.
- 2017** "Rethinking Citizen Science by Doing Citizen Science" (with J. Dylan Rees), Society for the Social Studies of Science Conference 2017, Boston, MA, Aug. 30-Sep. 2, 2017.
- 2017** "Collaboration as a multi-scalar phenomenon," Northeast Science and Technology Studies Conference 2017, York University, Toronto, Ontario, Canada, Apr. 22-23, 2017.
- 2016** "Trans Tech: Ethnography of a Hacker Collective," American Anthropological Association Annual Meeting 2016, Minneapolis, MN, Nov. 16-20, 2016.
- 2016** "Towards a Transgender Technoscience," Trans*Studies Conference 2016, University of Arizona, Tucson, AZ, Sep. 7-10, 2016.

- 2016** “Diverse Be-longings: Trans Hacker Collectives as New Sites of Tech Diversity Understandings,” Theorizing the Web 2016, New York, NY, Apr. 15-16, 2016.
- 2016** “Trans Code: Free Software as Model & Critique of Diversity by Transgender Hackers” (with Lillian Lemmer), LibrePlanet 2016, MIT, Cambridge, MA, Mar. 19-20, 2016.
- 2016** “SocialBSD: A Review of Diversity and Inclusivity Initiatives in the *BSD Community and Imagining Future Pathways,” AsaiBSDCon 2016, Tokyo University of Science, Tokyo, Japan, Mar. 10-13, 2016.
- 2016** “The Trans Tech Network: Using Culture to Challenge Structure and Diversity,” Institutions and Societies 2016, SUNY Albany, Albany, NY, Feb. 26, 2016.
- 2015** “Pathways to Social Justice in Social Science-Computer Science Collaboration,” American Anthropological Association Annual Meeting 2015, Denver, CO, Nov. 18-22, 2015.
- 2015** “Devio.us, the Free OpenBSD Shell Provider and Online *BSD User Group: Technical and Social Lessons Learned from Half a Decade of Service” (with Bryce Chidester), vBSDcon 2015, Reston, VA, Sep. 11-13, 2015.
- 2015** “Building BUGs: A Broad View of the New York City *BSD User Group” (with George Rosamond), BSDCan 2015, University of Ottawa, Ottawa, Canada, Jun. 10-13, 2015.

Conferences organized

- 2014** New York City *BSD Conference 2014, New York, New York, Feb. 8, 2014.

INVITED TALKS

- 2019** “Hypatia Software Organization: A who, what, why, and how of advancing diversity in Technology,” Defcon 201, Sep. 20, 2019.
- 2018** “OpenBSD and You,” Defcon 201, Dec. 21, 2018.

CAMPUS/DEPARTMENTAL TALKS

Rensselaer Polytechnic Institute, Troy, NY

Department of Computer Science

Introduction to Open Source: Lab, Open Source Documentation and Community Interaction (Spring 2017, Fall 2016, Spring 2016, Fall 2015)

- Spring 2015** Rensselaer Center for Open Source: Lecture, Welcome to OpenBSD!

Department of Interdisciplinary Humanities and Social Sciences

- Fall 2016** Open Source Art, Music, and Culture: Lecture, Transgender Communities in Open Source

TEACHING EXPERIENCE

Courses Taught

Rensselaer Polytechnic Institute, Troy, NY

IT & Web Science Program

Spring 2020 Information Systems Security
Web Systems Science Development

Fall 2019 Modern Binary Exploitation (Instructor of Record; co-taught with Dr. Ana Milanova)
Web Systems Development
Web Systems Science Development (as large-group independent study)

Spring 2019 Information Systems Security
Web Systems Science Development
Modern Binary Exploitation (as large-group independent study)
Penetration Testing (independent study)

Spring 2017 IT & Society

Department of Science & Technology Studies

Spring 2018 Introduction to STS
Sustainability by Design
Sustainability Careers

Fall 2017 Gender in Culture
Gender in History
Introduction to STS

Spring 2017 Design in Culture
Race as a Global Challenge
Race in Culture
Sustainability by Design

Fall 2016 Gender in Culture
Introduction to STS

Russell Sage College, Troy, NY

Department of Arts & Letters

Fall 2018 Public Speaking & Presentations

RESEARCH EXPERIENCE

2019-present Cybersystems Security Research Group

2015-present Lead Open Knowledge Developer, Platform for Experimental and Collaborative Ethnography (PECE)
University of California, Irvine, Kim Fortun, PI

2015-present Lead Systems Administrator, Platform for Experimental and Collaborative

Ethnography (PECE)
University of California, Irvine, Kim Fortun, PI

2014-2016 Fellow, GK-12/3Helix
Rensselaer Polytechnic Institute, Ron Eglash, PI

DEPARTMENTAL/UNIVERSITY SERVICE

2019-present Curriculum Committee, Information Technology & Web Science
Graduate

2019-present Curriculum Committee, Information Technology & Web Science
Undergraduate

2019-present Concentration advisor, Information Dominance, Graduate, ITWS

2019-present Concentration advisor, Information Security, Graduate, ITWS

2019-present Concentration advisor, STS, Undergraduate, ITWS

2019-present Concentration advisor, Information Security, Undergraduate, ITWS

2019-present Faculty advisor, RPI chapter of Hillel International: The Foundation for
Jewish Life at Colleges and Universities

2019-present Faculty advisor, RPISEC, the Information Security Club and CTF Team at
RPI

2019-2020 Cybersecurity Analysis Team, Member

2016-2019 Principal Bassoonist, University Orchestra
Rensselaer Polytechnic Institute

2016-2017 Department of Science & Technology Studies Colloquium Committee
Rensselaer Polytechnic Institute

2016-2017 Department of Science & Technology Studies Graduate Representative
Rensselaer Polytechnic Institute

2012-2014 Information Technology University Steering Council
Monmouth University

2012-2014 Principal Bassoonist, University Orchestra
Monmouth University

UNDERGRADUATE THESES ADVISED

2016-2017 Pedestrian Dis/Order: Reimagining Our Urban Streets
Advisee: Morgan Johnson, Science & Technology Studies

PROFESSIONAL AFFILIATIONS

American Anthropological Association
American Association for the Advancement of Science
Society for the History of Technology
Society for the Social Studies of Science

NON-PROFIT/PROFESSIONAL EXPERIENCE

2016-present	Clerk, Hypatia Software Organization, Inc. Boston, MA
2016-present	Director, Hypatia Software Organization, Inc. Boston, MA
2013-present	Developer, The OpenBSD Project Calgary, Alberta, Canada