

BRIAN ROBERT CALLAHAN

Curriculum vitae

email: callab3rpi@gmail.com

<https://briancallahan.net/>

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

- Callahan, Brian Robert. Forthcoming. "A protocol for the formatting and transmission of binary data over CW," QEX.
- Fortun, Kim, Brian Callahan, Brandon Costelloe-Kuehn, Brad Fidler, Alison Kenner, Aalok Khandekar, Alli Morgan, Lindsay Poirier, and Mike Fortun. Forthcoming. "Hosting the Platform for Experimental, Collaborative Ethnography."
- 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** "Middleware, Light Structure, Experimental Systems: Designing the Platform for Experimental Collaborative Ethnography (PECE)," 4S/EASTS Conference. August 2020. (Mike Fortun, Kim Fortun, Tim Schutz, Angela Okune, James Adams, Prerna Srigrayan, Lindsay Poirier, Brian Callahan, Brandon Costelloe-Kuehn, Ali Kenner, Aalok Khandekar, Renato Vasconcellos Gomes)
- 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

Fall 2020 Modern Binary Exploitation
Web Systems Development

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

- 2020-present** Cybersystems Security Research Group
Rensselaer Polytechnic Institute, Brian Callahan, PI
- 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
Rensselaer Polytechnic Institute
- 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