

# Johanna (Hannah) Cohoon

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## Research Synopsis

What we know and how we know it changes as society evolves. To address current and future issues in knowledge production and sharing, I study knowledge infrastructures through examination of research practice, technology, and culture. I collect qualitative and quantitative data to turn unstructured observations of the real world into publications, figures, and talks that analyze changes in science practice. I leverage work from CSCW, organization science, STS, and science of science to inform my own research. I apply my expertise within the communities that I study, seeking to create change as I study it.

## Education

**PhD Candidate in Information Studies**, University of Texas at Austin  
Committee: James Howison (chair), Amelia Acker, Andrew Dillon, Brian Nosek  
Expected graduation in May 2022

**Bachelor of Arts**, University of Virginia, 2013  
Interdisciplinary Major in Cognitive Science

Trained in reproducible research, literature reviews, experimental design, interviews, user research, thematic analysis, survey research, data sharing, SQL/SPARQL, Qualtrics, inferential and descriptive statistics. Experience with R, Python, bayesian statistics, and MAG dataset.

## Research Experience

### Doctoral Fellow

School of Information at UT Austin, Supervisor: James Howison, 2021-present

Studying the development, use, *and non-use* of a platform for open science, the OSF, to understand how openness is encouraged, practiced, and resisted. I apply structuration theory to guide analysis of my interviews, observation, and trace data collection. Results will yield implications for platform developers who will learn how scientists come to use or not use their tool and for platform funders who seek to make an impact with their awards. Scientists themselves should benefit from their practical concerns being represented in the literature on open science, providing data for empirically based discussion of open science policies.

### Graduate Research Assistant

School of Information at UT Austin, Supervisor: James Howison, 2016-present

Conducting a study of scientific software development to identify best practices for sustainability. Content analysis of web presences, qualitative comparative analysis (QCA), and remote interviews reveal differences between open source work and other forms of organization in academic software development. Responsible for recruiting and scheduling interviews, data collection and analysis, results reporting. Data stored as structured data (RDF); analyzed and queried using SPARQL, R, and Data.World. Results, thus far presented in workshops and conferences, identify multiple types of software organizations that face differing challenges in pursuing sustainability.

### Fellow at the Lab for Innovation Science at Harvard

Harvard Business School at Harvard University, Supervisors: Karim Lakhani, Marie Thursby, Jerry Thursby, 2018-2019

Studied micro-level processes of scientific lab management to understand the relationship between environmental factors (e.g. competition, funding availability, transparency norms) and research productivity. Recruited participants and conducted semi-structured, on-site interviews with geoscientists and geoscience doctoral students.

### Graduate Research Assistant

School of Information at UT Austin, Supervisor: Unmil Karadkar, 2017-2018

Developed a structured interview protocol to study data management practices in geoscience. Research results were expected to characterize sociotechnical practices and needs so that digital workflows can be optimized.

### Project Coordinator

Center for Open Science, Supervisor: Brian Nosek, 2013-2015

Studied scientific reproducibility via a team science effort to replicate statistical effects. Results, published in Science Magazine, prompted substantial concern over reproducibility and research practices in psychology. Co-managed >150 collaboration members. Wrote research reports, coordinated analysis and reporting efforts, conducted survey research using Qualtrics and Google Forms, managed communication among stakeholders. Also conducted user workshops for the Open Science Framework and responded to user facing bug reports.

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## Peer Reviewed Journal Publications

- Cohoon, J., Howison, J. (2021). Norms and Open Systems in Open Science. *Information & Culture* 56(2), 115–137.
- Howison, J., Lopez, P., Du, C., Cohoon, J. (Accepted in JASIST) Softcite-dataset: A dataset of software mentions in scientific publications.
- Link, Lumbard, Damen, Rosser, Germonprez, Goggins... Cohoon...Schechter. (2019). Open Community Health: A Workshop Report. *Journal of Peer Production*, 12(1).
- Open Science Collaboration\*. (2015). Estimating the reproducibility of psychological science. *Science*, 349(6251),  
\*Over 250 co-authors published under the moniker Open Science Collaboration. As project coordinator, my role was substantial.

## Full Conference Papers

- Lopez, P., Ram, K., Du, C., Cohoon, J., Howison, J. (2021). Mining Software Entities in Scientific Literature: Document-level NER for an Extremely Imbalance and Large-scale Task. CIKM 2021, Gold Coast, Queensland, Australia. November 2021. *Best Applied Paper Runner Up*

## Workshop and Conference Presentations or Papers

- Howison, J., Lopez, P., Du, C., Cohoon, J. (2021). CiteAs: Articulating Work at Scale for Software Citation Implementation. *CSCW '21 Companion*, October 23–27, 2021, Virtual Event.
- Cohoon, J., Du, C., Howison, J. (2021) Challenges to Sustainable Software Software Development in Science. *Collegeville Workshop on Sustainable Scientific Software*, Virtual/Collegeville, MN, July 2021.
- Cohoon, J., Howison, J. (2019). *Open Science as a Value-Driven, Cyberinfrastructure-Supported Ethos*. Presented at 4S, New Orleans, USA, September 4.
- Cohoon, J., Howison, J., Du, F. (2019). Studying the Process of Transition to Peer Production. *CSCW 2019 Workshop – Mapping the How*, Austin TX, USA, November 2019.
- Du, F., Cohoon, J., Howison, J., Priem, J., Piwowar, H. (2019). Studying Processes in Software Citation Towards Improved Collaboration Among Scientists. *CSCW 2019 Workshop – Mapping the How*, Austin, TX, November 2019.
- Cohoon, J., Howison, J. (2019). *Routes to Sustainable Software: Transitioning to Peer Production*. Poster session presented at the 2019 Collegeville Workshop on Sustainable Scientific Software, Collegeville, MN.
- Howison, J., Cohoon, J. (2018). *Routes to Sustainable Software in Science: Transitioning to Peer Production*. Presented at the Academy of Management (TIM Division), Chicago, USA, August 10, 2018.

## Abstracts and Extended Abstracts

- Cohoon, J. (2021). Negotiating Open Science: The Open Science Framework as a Technology-in-Practice. *CSCW '21 Companion*, October 23–27, 2021, Virtual Event.
- Karadkar, U., Cohoon, J. (2018). *Developing Practice-informed, Minimal Overhead Workflows for Large-scale Geoscience Data Management*. American Geophysical Union 2018. Washington, D.C., December 2018.

## Publications in Progress

- Cohoon, J., Du, C., Howison, J. (Revising; to be submitted 2021). Sustaining Scientific Software through Organizational Transitions.
- Thursby, J., Thursby, M., Lakhani, K., Myers, K., Cohodes, N., Bratt, S., Byrski, D., Cohoon, J., Roche, M., Scientific Production: An Exploration into Organization, Resource Allocation, and Funding. Working Paper, May 2020.

## Resources Produced

- Howison, J., Lopez, P., Du, C., & Cohoon, H. (2021). Softcite Dataset: A dataset of software mentions in research publications {Data set}. Zenodo. <https://doi.org/10.5281/zenodo.4445202>
- Puebla, I., Lowenberg, D., & Working Group for Research Data Publishing Ethics (2021). Joint FORCE11 & COPE Research Data Publishing Ethics Working Group Recommendations. Zenodo. <https://doi.org/10.5281/zenodo.5391293>

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## Invited Talks

Workshop on the Science of Scientific-Software Development and Use, Keynote speaker, Virtual, 2021  
Productivity and Sustainability Improvement Planning (PSIP) project team meeting, Invited speaker, Virtual, 2021  
STEM Librarians South Conference, Keynote speaker, Austin, TX, 2019

## Professional Service

Force11 Data Ethics Working Group, Member, 2021  
Collegeville Workshop on Scientific Software, Organizing Committee Member, Virtual, 2021  
PLoS Computational Biology, Reviewer, 2021  
Colloquium Committee, Student representative, Austin, TX, 2020–2021  
iConference, Reviewer, 2018–2020  
Open Rank Search Committee, Student representative, Austin, TX, 2019–2020  
Information School Doctoral Student Association (IDSA), President, Austin, TX, 2018–2019  
Doctoral Studies Committee, Student representative, Austin, TX, 2016–2019  
Diversity and Inclusion Committee, Student representative, Austin, TX, 2017–2018  
CSCW Conference, Student volunteer, Portland, OR, 2017  
GROUP Conference, Student volunteer, Sanibel Island, FL, 2017

## Workshop and Short Course Participation

CSCW Doctoral Colloquium, Virtual, 2021  
ASIST Doctoral Colloquium, Salt Lake City, 2021  
Science of Science Summer School, Virtual, 2021  
Collegeville Workshop on Scientific Software, Virtual, 2021  
6S: STS Infrastructures, 4S 2020, Virtual/Prague, Czech Republic, 2020  
Mapping the "How" of Collaborative Action, CSCW 2019, Austin, TX, 2019  
Collegeville Workshop on Sustainable Scientific Software, Collegeville, MN, 2019  
Force11 Scholarly Communications Institute, San Diego, CA, 2018  
Science Gateways Community Institute Bootcamp, Austin, TX, 2018  
Workshop on Open Community Health and Sustainability, Omaha, NE, 2018  
NSF RCN Workshop on the Cyberinfrastructure Workforce, Alexandria, VA, 2017

## Teaching Experience

AI, Spring 2021, UT Austin, "Academic Success in the Digital University," served as Instructor of Record  
TA, Spring 2020, UT Austin, "Human-Computer Interaction," Instructor of Record: Jacek Gwizdka  
TA, Fall 2019, UT Austin, "Theories and Applications of Metadata," Instructor of Record: Amelia Acker  
TA, Fall 2019, UT Austin, "Critical Data Studies," Instructor of Record: Amelia Acker

## Awards

Graduate Student Professional Development Award, UT Austin, 2021  
University Graduate Continuing Fellowship, UT Austin, 2021  
Graduate School Summer Fellowship, UT Austin, 2020  
Bowden Conference Travel Scholarship, UT Austin, 2018  
Diversity Scholarship, SciPy Conference, 2017  
Benonine Muse Scholarship, UT Austin, 2017 & 2016

## Select Media Recognition

New York Times, 2015, "Many Psychology Findings Not as Strong as Claimed, Study Says"  
FiveThirtyEight, 2015, "Psychology Is Starting To Deal With Its Replication Problem"  
Inside Higher Ed, 2015, "Why Replication Matters"