

# Freddy Reiber

📞 Signal available on request | ✉️ [freddy@bu.edu](mailto:freddy@bu.edu) | 🌐 <https://freddyreiber.info/> | 📍 Somerville, MA

## Education

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### Doctor of Philosophy in Computing and Data Science

Boston, MA

*Boston University*

Sept. 2022 – Current

- **Research:** Human Computer Interaction, Labor and Technology, Union Organizing, Political Economy
- **GPA:** 3.8
- **Current Status:** Candidate

### Bachelor of Science in Computer Science

Irvine, CA

*University of California - Irvine*

Aug. 2018 – June 2022

- **Specialization:** Algorithms
- **GPA:** 3.6
- **Coursework:** Data Structures, Algorithms, Algorithmic Game Theory, Graph Theory, Theory of Computation.

## Research Papers

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- [1] Matthew Ferland et al. “Construction and Preliminary Validation of a Dynamic Programming Concept Inventory”. In: *Proceedings of the 56th ACM Technical Symposium on Computer Science Education V. 1.* 2025, pp. 325–331.
- [2] Michael Luu et al. “What is an algorithms course? Survey results of introductory undergraduate algorithms courses in the US”. In: *Proceedings of the 54th ACM Technical Symposium on Computer Science Education V. 1.* 2023, pp. 284–290.
- [3] Frederick Reiber. “Major developments in the evolution of tabletop game design”. In: *2021 IEEE Conference on Games (CoG)*. IEEE. 2021, pp. 1–8.
- [4] Frederick Reiber. “The crew: The quest for planet nine is np-complete”. In: *arXiv preprint arXiv:2110.11758* (2021).
- [5] Frederick Reiber et al. “Organizing in the Digital Age: Understanding Community, Challenges, and Consequences in Digitally-facilitated Labor Organizing”. In: *In review for CSCW 2026*. ACM. 2026.
- [6] Frederick Reiber et al. “Surveillance, Spacing, Screaming and Scabbing: How Digital Technologies Facilitate Union Busting”. In: *To Appear in the Proceedings of CHI 2026*. ACM. 2026.
- [7] Michael Shindler et al. “Student misconceptions of dynamic programming: a replication study”. In: *Computer Science Education* 32.3 (2022), pp. 288–312.

## Work Experience

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### Boston University

Sept. 2022 - Present

*Graduate Researcher*

Boston, MA

- Lead and participated in a wide range of peer-reviewed research projects
- Conducted both qualitative and quantitative data analysis on numerous data sets
- Provide leadership and membership to undergraduate researchers

### University of California

Jan. 2020 – June 2022

*Course Grader and Reader*

Irvine, CA

- Work in a small team to grade student responses
- Interact with students on a personal level to explain concepts and errors

- Expertise in C++ and Data Structure courses

## Hewlett Packard Enterprise Intern/Aruba Networks

June 2018 – Aug. 2018

*Software Intern*

Roseville, CA

- Worked on a mobile application team working on Aruba - CX, an app for speeding up the initial configuration of Aruba - OS switches
- Professional experience with React Native, Objective C, and Java
- Competed in the Aruba Global Hackathon

## Talks

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### ReCAP 2025

2025

*Optimizing Versus Organizing:*

[Link](#)

*How Data and Communication Tools Reconfigure the Workplace and the Union*

### Tedx Talk

2025

*Digital Barriers: How Workplace Technologies are Reshaping Unionization*

[Youtube Link](#)

## Teaching

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### Teaching Fellow

2024,2026

*DS 587: Data Science in Human Contexts, Computing & Data Sciences, Boston University*

[Link](#)

### Teaching Fellow

2025

*DS 122: Foundations of Data Science 3, Computing & Data Sciences, Boston University*

[Link](#)

### Teaching Fellow

2025

*DS 320: Algorithms for Data Science, Computing & Data Sciences, Boston University*

[Link](#)

## Selection of Public Writing

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### Brandeis Staff Organize a New Union on Campus

April 2025

*Working Mass*

[Link](#)

### Optimizing Versus Organizing: An Inventory of the Bosses Weapons

July 2025

*Working Mass*

[Link](#)

### AI in Court: Politico Workers Take the Boss to Court Over Forced Automation

August 2025

*Working Mass*

[Link](#)

### Kickstarter Workers Rally in Boston to Launch Fourth Strike Week

October 2025

*Working Mass*

[Link](#)

## Awards

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### Undergraduate Research Award

2022

*Award for excellence in research during undergrad*

### Special Recognitions for Outstanding Reviews

2026

*Award for CHI 2026 reviews*