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University of Michigan School of Information

PhD in Information Science - 2015 to 2022

- Designed, conducted, and published research on large-scale participatory governance.
- Developed platform for online deliberation experiments based on the Loomio platform.
- Analyzed co-editor networks of 800,000,000+ English-language Wikipedia edits.
- Taught 4 semesters of discussion sections for SI 664: Database Application Design.
- Published technical book on the NetworkX python framework.

University of Michigan Graduate Employees Organization (AFL/CIO Local 3550)

Bargaining Committee Co-Chair - 2019 to 2020

- Directly supported 40 organizers across 8 working groups.
- Organized town halls, presented to general membership, and consolidated research to facilitate communication between members, working groups, and bargaining team.

MIT Center for Civic Media

Civic Technology Developer - 2012 to 2015

- Developed research prototypes into production web applications using Javascript, Python, Rails, and Drupal.
- Designed and implemented an extensible front-end for the Media Cloud database, supporting modular API endpoints, query types, and visualizations.

i3 Detroit Makerspace

Co-founder and Board Member (volunteer) - 2009 to 2013

- Collaborated to establish a 7000 sq.ft. workshop and grow to over 100 members.
- Led development of Seltzer CRM, a platform for self-managed membership organizations, in collaboration with Farset Labs and Melbourne Makerspace.
- Filed for 501(c)(3) status, maintained financial records, and mentored treasurers.

Freelance Web Developer - 2009 to 2012

- Created web applications for multiple clients using Javascript and Drupal.
- Developed standards-compliant, cross-browser compatible HTML and CSS.
- Provided pro bono web application development to multiple nonprofits.

Education

- Ph.D. in Information Science - University of Michigan
- M.Math in Applied Mathematics - University of Waterloo
- Dual S.B. EECS / Physics - Massachusetts Institute of Technology