

# \*❁❁❁ Jen Liu ❁❁❁\*

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## *EDUCATION*

- 2018 – present      Ph.D, Information Science  
Cornell University, Ithaca, NY
- 2015 – 2017        Master of Tangible Interaction Design  
Carnegie Mellon University, Pittsburgh, PA  
Thesis: “Field Computing: Tools for Collaborative Survival”
- 2008 – 2012        BFA Fiber, summa cum laude  
Maryland Institute College of Art, Baltimore, MD

## *RESEARCH APPOINTMENTS*

- 2020 – present      Research Assistant (advised by Phoebe Sengers)  
NSF #1955125: Understanding and Improving the Social Impact of High-  
Bandwidth Farm Networking Infrastructure  
Information Science, Cornell University
- Summer 2019        Graduate Summer Researcher  
Cornell Initiative for Digital Agriculture
- 2018 – present      Graduate Researcher (advised by Steven Jackson)  
Information Science, Cornell University
- 2015 – 2017        Research Assistant, Learning Media Design Center (advised by Marti Louw)  
Carnegie Mellon University  
NSF Grant: #1623969

## *PUBLICATIONS*

### *Refereed Articles*

- Jen Liu** and Phoebe Sengers. 2021. “Legibility and the Legacy of Racialized Dispossession in Digital Agriculture.” CSCW ’21 Proceedings. **Honorable Mention Award**
- Joselyn McDonald\*, Siyan Zhao\*, **Jen Liu\***, Michael Riviera. 2018. “MaxiFab: Applied Fabrication to Advance Menstrual Technologies”. DIS Works in Progress: Proceedings of the 2018 Designing for Interactive Systems Conference (DIS). Hong Kong, China. \*contributed equally
- Jen Liu**, Daragh Byrne, Laura Devendorf. 2018. “Designing for Collaborative Survival: An Inquiry into Human-Fungi Relationships”. CHI ’18 Proceedings. Montreal, Canada. **Best Paper Award**
- Jen Liu**. “Field Computing: Wearable Devices for Citizen Science Applications”. TEI Works in Progress: Proceedings of the 2017 Tangible, Embedded and Embodied Interaction Conference, Yokohama, Japan.

### *Book Chapters*

(*Under review*) Steve Jackson, **Jen Liu**, Ranjit Singh, Samir Passi. “Maintaining Data Infrastructures.” SAGE Handbook on Data & Society.

### *Workshop Proposals*

Eleonora Mencarini, Christina Bremer, Chiara Leonardi, **Jen Liu**, Valentina Nisi, Nuno Jardim Nunes, Robert Soden. “HCI for Climate Change: Imagining Sustainable Futures.” In Proceedings of the 2023 CHI Conference: CHI 23’

Esther Jang, Nicola Bidwell, **Jen Liu**, Phoebe Sengers, Naveen Bagalkot, Nervo Verdezoto, Melissa Densmore, Morgan Vigil-Hayes, Shaddi Hasan. 2022. “Situating Network Infrastructures with People, Practices, and Beyond: A Community Building Workshop.” In Proceedings of the 2022 CSCW Conference: CSCW 22’.

**Jen Liu**, Cindy Lin, Anne Pasek, Lacey Padilla, Robert Soden, Daniela Rosner, and Steve Jackson. 2022. “Towards a Material Ethics of Computing: Addressing the Uneven Stakes of Digital Infrastructures.” In Proceedings of the 2022 CHI Conference: CHI 22’

Szu-Yu (Cyn) Liu, **Jen Liu**, Kristin Dew, Patrycja Zdziarska, Maya Livio, and Shaowen Bardzell. 2019. “Exploring Noticing as Method in Design Research.” In Proceedings of the 2019 Designing Interactive Systems Conference: DIS ‘19.

### *Other Published Materials*

*Forthcoming* **Jen Liu**. 2023. Living with Intermittent Infrastructures. Hosted on Solar Protocol.

**Jen Liu**. 2022. How to get to the end of the world. *interactions* 29, 1 (January - February 2022), 39–43.

**Jen Liu** and Camille Baumann-Jaeger. “Dissenting Jabots”. Disobedient Electronics. Ed. Garnet Hertz. Vancouver. 2017.

**Jen Liu**. Butt Blinkers. Featured project in Make: Wearable Electronics. Sebastopol: Maker Media. 2014.

### **INVITED TALKS and PRESENTATIONS**

2022 “Hanging on a Wire: Utility Pole Maintenance in Southeast Louisiana.” Terrestrial Internet Panel, 4S (Society for Social Studies of Science) Annual Meeting.

2022 “Bayou Infrastructures: Keeping the Internet on in South Louisiana.” Computational Design Speaker series, Carnegie Mellon University.

2021 “Technologies of Land Dispossession: Digital Agriculture and Legibility.” Networking Rurality Panel, 4S (Society for Social Studies of Science) Annual Meeting.

2020 (*interrupted due to COVID-19*) “Race to the Bottom: Racial Identity and Implications for Digital Agriculture”. Rurality, Identity, and Digital Technology panel, Rural Sociological Society Meeting.

2019 “Internet of Dirt: Understanding Challenges of Adoption and Maintenance of Digital Agricultural Technologies”. Science Studies Reading Group, Cornell University

- 2019 “Internet of Dirt: Maintaining Agricultural IoT Systems”. Information Infrastructures panel, Maintainers III: Practice, Policy, and Care., Gallaudet University.
- 2019 “Reconsidering the Coalpit”. Critical and Imaginative Restoration Ecologies panel, Dimensions of Political Ecology, University of Kentucky.
- 2018 “Tools for Collaborative Survival” MALfunction, Media Archaeology Lab, University of Colorado, Boulder.
- 2016 “Soft Fabrication: A Skills-Based Micro Course”. Teaching and Learning Summit, Carnegie Mellon University.
- 2016 Invited participant, a2ru Emerging Creative Student Summit, University of Michigan.
- 2014 “Soft Circuits”. Textile Futures panel, Studio Art Quilt Association.

## **TEACHING**

### *Primary Instructor*

- S16, F16, S17 Soft Fabrication Skills Micro-course (IDeATe 99-352)  
Carnegie Mellon University, Co-instructed with Susan Finger

### *Teaching Assistant*

- S20 Information Ethics, Law, and Policy (INFO 1200)  
Cornell University, Co-Instructors: Steven Jackson & Karen Levy
- F19 Human Computer Interaction and Design (INFO 3450)  
Cornell University, Instructor: Gilly Leshed
- S19 Information Ethics, Law, and Policy (INFO 1200)  
Cornell University, Instructor: Steven Jackson
- F18 Designing Technologies for Social Impact (INFO 4240)  
Cornell University, Instructor: Phoebe Sengers

### *Guest Lecturer*

- S18 “Intro to Soft Circuits”, Designing for Curiosity (ATLS 5519)  
University of Colorado, Boulder, Instructor: Daniel Leithinger
- F17 “Intro to Soft Circuits”, Physical Computing Interfaces (ATLS 4519)  
University of Colorado, Boulder, Instructor: Hyunjoo Oh
- S14 “Noise Sweater”, Systems Thinking: Smart Textiles (FB 287)  
Maryland Institute College of Art, Instructor: Olivia Robinson

### *Workshop Organizer*

- 2018 “Powered by Muck: A Microbial Fuel Cell Workshop”, Civic Art Lab, New York, NY
- 2018 “Terms of Subversion: A DIY Terms of Service Creative Coding Workshop”, co-organized with Brianna Dym, MediaLive Festival, Boulder, CO

- 2014 “Soft Circuits Public Workshop”, Ripple Gallery, Rockville, MD
- 2014 “Paper Circuits”, Maryland Art Education Association, Ellicott City, Maryland
- 2013 “Intro to Soft Circuits”, Interactive Telecommunications Program, New York, NY

### ***SCHOLARSHIPS and GRANTS***

- 2022 NSF Doctoral Dissertation Improvement Grant #2147052
- 2021 QuIRi small grant, Cornell University
- 2021 /Art Microgrant recipient, Cornell Tech
- 2020 Critical Perspectives on Disaster Data Research Award, Co-Risk Labs
- 2020 Paul Evans Peters Doctoral Fellowship, Coalition for Networked Information
- 2020 (*interrupted due to COVID-19*) Rural Sociology Society Diversity Travel Grant
- 2020 Graduate School Conference Travel Grant Award, Cornell University
- 2019 Cornell Initiative for Digital Agriculture Summer Stipend Award
- 2019 Graduate School Conference Travel Grant Award, Cornell University
- 2018 Partial NEST Grant awardee with Laura Kim, University of Colorado, Boulder
- 2016 Graduate Travel Scholarship, Carnegie Mellon University
- 2016 Frank-Ratchye Fund for Art @ the Frontier Grant, Studio for Creative Inquiry  
Carnegie Mellon University
- 2015 Graduate Studies Scholarship, Carnegie Mellon University
- 2008 – 2012 Full tuition scholarship, Maryland Institute College of Art
- 2011 Nancy Lee Rhodes Robert '39 Scholarship, Maryland Institute College of Art

### ***HONORS and AWARDS***

- 2023 Special Recognition for Outstanding Review (CHI 2023)
- 2021 ACM CSCW 2021 Honorable Mention Award
- 2021 Special Recognition for Outstanding Review (DIS 2021)
- 2020 Special Recognition for Outstanding Review (DIS 2020)
- 2020 Special Recognition for Outstanding Review (CHI 2020)
- 2018 ACM CHI 2018 Best Paper Award
- 2013 30 Creative Minds Under 30, Maryland Art Place, Baltimore, MD
- 2012 Fiber Department Recognition Award, Maryland Institute College of Art
- 2010 Achievement Award, Maryland Institute College of Art
- 2008 – 2012 Dean’s List, Maryland Institute College of Art
- 2008 U.S. Presidential Scholar in the Arts

### ***SERVICE***

#### *Field-based Service*

- 2017 – 2023 Reviewer for ACM Conference on Human Factors in Computing Systems (CHI)

- 2019 – 2020 Reviewer for ACM Conference on Tangible, Embedded, and Embodied Interaction (TEI)
- 2017 – 2023 Reviewer for ACM Conference on Designing Interactive Systems (DIS)
- 2019 Student Volunteer, ACM Designing Interactive Systems (DIS)

*University-based Service*

- 2020 – 2022 Seminar Coordinator, Information Science Graduate Student Association, Cornell University
- 2019 – 2021 First year mentor, Information Science Department, Cornell University
- 2019 – 2020 President, Information Science Graduate Student Association, Cornell University
- 2019 – 2020 Visit Day Organizing Committee, Information Science, Cornell University
- 2018 – 2020 Vice President, Cornell Mapping Society, Cornell University
- 2016 Selection Committee, Teaching Innovation Award, Carnegie Mellon University

**PROFESSIONAL EXPERIENCE**

- 2022 Contract Researcher  
Healthy Gulf, New Orleans, LA
- 2016 Smart Textile Design and Engineering Intern  
Welspun USA, Pittsburgh, PA and New York, NY
- 2013 – 2015 DIY Manager, Education and Outreach Department  
Maryland Science Center, Baltimore, MD
- 2012 – 2014 Workshop Leader / Maker-in-Residence  
FutureMakers, Baltimore, MD