

# Cindy Kaiying Lin

Ph.D. Candidate (ABD), School of Information,  
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## RESEARCH AREAS

Critical computing; critical data studies; science & technology studies; makers & DIY technology; feminist ethnography; postcolonial history; Southeast Asia studies.

## EDUCATION

Present      **University of Michigan, Information, Ph.D. Candidate**  
Dissertation Title: *Coding Climate Inequality: An Ethnography of Data Control, Efficiency, and Environmental Justice in Postcolonial Indonesia*  
Dissertation Committee: Silvia Lindtner (chair), Matthew Hull, Lisa Nakamura, Christian Sandvig. Cornell University: Juno Salazar Parreñas  
2011-2015    **National University of Singapore, Southeast Asian Studies, B.A.** honors

## PUBLICATIONS

### Book

Fisher, Anna Watkins, Silvia Lindtner, Ivan Char-Lopez, Cengiz Salman, McKenzie Wark, Kalindi Vora, Jackie Wang, Cass Adair, Lisa Nakamura, **Cindy Lin**, with Meryem Kamil (Precarity Lab). Forthcoming October 2020. *Technoprecarious*. Goldsmiths Press/The MIT Press. **Equal Authorship.**

### Peer Reviewed Conference Proceedings

Lin, Cindy and Silvia Lindtner. (Under Review) "Techniques of Use: Confronting value systems of productivity, progress, and usefulness in computing and design." In *Proceedings of the ACM Human Factors in Computing Systems Conference (CHI '21)*.

Lin, Cindy, Silvia Lindtner, and Stefanie Wuschitz. "Hacking Difference in Indonesia: The Ambivalences of Designing for Alternative Futures." In *Proceedings of the ACM Designing Interactive Systems Conference (DIS '19)*, San Diego, CA. <https://doi.org/10.1145/3322276.3322339> [25% acceptance rate], **Recognition for Contribution to Diversity and Inclusion.**

Lin, Cindy, and Silvia Lindtner. "Legitimacy, boundary objects & participation in transnational DIY biology." In *Proceedings of the ACM Participatory Design Conference (PDC '16)*, Aarhus, Denmark. <https://doi.org/10.1145/2940299.2940307> [26% acceptance rate]

Dolejšová, Markéta, and Cindy Lin. "Squat & Grow: Designing Smart Human-Food Interactions in Singapore." In *Proceedings of the SEACHI 2016 on Smart Cities for Better Living with HCI and UX*, 24-27. <https://doi.org/10.1145/2898365.2899798>

### Peer Reviewed Journal Articles

Nakamura, Lisa, Irina Aristarkhova, Iván Chaa López, Anna Watkins Fisher, Meryem Kamil, Cindy Lin, Silvia Lindtner and Tung-hui Hu (Precarity Lab). Digital Precarity Manifesto. In *Social Text* 37 no. 4 (2019). <https://doi.org/10.1215/01642472-7794402>

Avle, Seyram, Cindy Lin, Jean Hardy and Silvia Lindtner. "Scaling Techno-Optimistic Visions." In *Engaging Science, Technology and Society* 6 (2020): 237-254. <https://doi.org/10.17351/ests2020.283>

Lindtner, Silvia, and Cindy Lin. "Making and its promises." *CoDesign* 13, no. 2 (2017): 70-82. <https://doi.org/10.1080/15710882.2017.1308518>

Bardzell, Jeffrey, Shaowen Bardzell, Cindy Lin, Silvia Lindtner, and Austin Toombs. "HCP's Making Agendas." *Foundations and Trends® in Human-Computer Interaction (TOCHI)* 11, no. 3 (2017): 126-200. <https://doi.org/10.1561/11000000066>

Lin, Cindy, and Andrew Moon. "Negotiating Time: Design as Historical Practice." *PORTAL Journal of Multidisciplinary International Studies* 13, no. 2 (2016). <https://doi.org/10.5130/portal.v13i2.5030>

### Book Chapters

Lin, Cindy. How Forest Became Data: The Remaking of Ground Truth. *The Nature of Data: Infrastructures, Environments, Politics*, Ed. Jenny E. Goldstein and Eric Nost, University of Nebraska Press. Forthcoming 2021.

Pena, Mary, Cindy Lin, Nina Jackson Levin, Prash Naidu, Miranda Garcia, Roxana Maria Aras, Salman Hussain, Cintia Huitzil, Janaki Phillips. 'Making sensory ethnography and sensorial formats in re-view', *entanglements*, 1(2):102-107.

### Lightly Peer Reviewed Articles

Lin, Cindy. "How to Make a Forest." e-flux architecture, April 2020. [\[link\]](#)

Lin, Cindy. Algorithmic Vision to Notice Differently: Entrusting Software to Protect Trees and Gun Farmers. In *Proceedings of DIS '19: Contesting Borders and Intersections*, ACM, New York, NY, USA. [\[link\]](#)

Lin, Cindy. elderly women make!: increasing diversity in maker culture. 2016 ACM Grace Hopper 2016 Student Research Competition (SRC). 2016. Houston, Texas.

## Peer-Reviewed Panels Organized

Horgan, Leah, Margaret Jack and **Lin, Cindy**. Becoming “Data-Driven”: Burgeoning Data Cultures and Liminality in Civil Service. Open panel at the 2019 Meeting of the Society for Social Studies of Science, New Orleans, United States.

## MULTI-MODAL RESEARCH PRODUCTS

### Exhibitions

*d. Holodeck* organized by Designers of Interactive, Intelligent, Internet of Things, University of Michigan, January 2018.

*Sensorial Formats* curated and organized by Making Sensory Ethnography, Hatcher Graduate Library Gallery, University of Michigan, April 2018.

*Urban Explorations Paris* organized by Media Lab Laselle Singapore.

- Galerie Episodique, June 2015
- National Design Centre Singapore, October 2015

*The Nenek Project* organized by Cindy Lin, Stefanie Wuschitz, and Lifepatch

- Critical Make, turning functionality, House of Electronic Arts, Basel, Switzerland, April 2015
- Jogja Contemporary, Yogyakarta, Indonesia, March 2015

### Participatory Workshops

*Making the ‘Future of Work’ Work* co-organized with Shaowen Bardzell, Jeffrey Bardzell, Paul Dourish, and Silvia Lindtner. Workshop funded by National Science Foundation - HTF Future of Work, University of Michigan, June 2019.

*Prototypes, Ethics, and Time: Where Did My Arduino Go?* With Eric Pan and David Li, Workshop presented at Designers of Interactive, Intelligent, Internet of Things, University of Michigan, April 2017.

*Critical Make* with Leah Buechley, Workshop presented at Designers of Interactive, Intelligent, Internet of Things, University of Michigan, December 2016.

## INVITED TALKS & PANELS

Lin, Cindy. “Technoprecarious,” Labor Tech Group, UC Irvine, Dec 2020.

Lin, Cindy. “Logistics in Software,” Discussant for Mellon Sawyer Seminar on Histories of AI: A Genealogy of Power, University of Cambridge, England, Jun 2020.

Lin, Cindy, Back, Jon, Stacy Branham, Sarah Fox, Norman Su, & Theresa Jean Tanenbaum. “Designing Change and Changing Design: Balancing the Tension Between the Values of Designers and Pressures of Capitalism,” Panel at the ACM Conference on Designing Interactive Systems 2019 (DIS 2019), San Diego, CA, Jun 2019.

- Lin, Cindy. "Feminist Lines across Disciplinary Domains in 'Precarity Lab'," Connecting Digital Scholarship, University of Michigan, Ann Arbor, Michigan, Jan 2019.
- Lin, Cindy. "Image to Invest: Imaginaries, Expertise, and Affective Labor of Carbon Phantasmal," Artifice Intelligence: Fabrication, Fakery, and the Virtually Human in American Anthropological Association (AAA), San Diego, California, Oct 2019.
- Lin, Cindy. "Scaling the promises of digital technologies in Ghana, China, and Indonesia," Locating Imaginaries of Techno-Optimism, Berkeley, California, Oct 2018.
- Lin, Cindy. "Introduction to Interaction Design," DIY making and Interaction Design Graduate Class, University of Michigan, Apr 2018.
- Lin, Cindy, Leah Buechley, Sophia Brueckner, Nick Tobier, Erik Hofer. "Critical Making and Body Politics," Critical Making Panel, University of Michigan, Oct 2017.
- Lin, Cindy. "Feminist Hacking." College of Arts, Media and Design. Northeastern University, Apr 2017.
- Lin, Cindy. "Women Makers Panel," Maker Faire Shenzhen, Shenzhen, China, Jun 2015.

### **SELECTED PAPER AND WORKSHOP PRESENTATIONS**

- Lin, Cindy and Leah Horgan. "Bureaucratic Vision: Promises of Data-driven Seeing in Moments of Crisis," Data Power 2019. Bremen, Germany, Sep 2019.
- Horgan, Leah, and Cindy Lin. "Look, But Don't Touch: Bureaucratic Vision and Administering the Margins," 4S Annual Meeting 2019, New Orleans, USA, Sep 2019.
- Lin, Cindy. "Accuracy for Carbon: Visualizing and Financializing Forest Life," 4S Annual Meeting 2018, Sydney, Australia, Sep 2018.
- Lin, Cindy. "Defer and Pass on: Anticipating Accuracy for Carbon" at Supply & Command: Encoding Logistics, Labor, and the Mediation of Making, NYU, Department of Media, Communications and Culture, New York, Apr 2018.
- Lin, Cindy. "Accuracy for Carbon: Vision, Control, and Cartography," Opaque Media, UC Irvine, California, Mar 2018.
- Lin, Cindy. Temporality & Synchrony: Droning Hornbills and Coordinating Rhythms on Capitalist Frontiers at Seeing Systems. Learning to See Systems – Graduate STS Workshop, Urbana, Illinois, 2017.
- Lin, Cindy. "Aspirations Here/Elsewhere: Alternative World-Making for Hackers and DIYbiologists," 4S Annual Meeting 2016, Barcelona, Spain, Sep 2016.

## **FELLOWSHIPS, GRANTS & AWARDS**

ESIP Community Fellowship Program, Federation of Earth Science Information Partners (ESIP), Machine Learning Cluster, 2021, \$2000

Rackham One-Term Dissertation Award, University of Michigan, \$10,840

Dow Sustainability Fellows Program, University of Michigan, 2018-2019, \$15,000

Rackham International Research Funds, University of Michigan, \$10,000

International Institute Student Fellowship Award, University of Michigan, 2018, \$6,500

International Institute Grant for Workshops, University of Michigan, 2018, \$1,500

Rackham Student Research Grant, University of Michigan, 2017, \$1,000

ACM's SRC Travel Award for the 2016 ACM Grace Hopper 2016 Student Research Competition (SRC) at Houston, Texas, 2016, \$500

Rackham International Travel Grant, 2016, 2017, 2018: \$3,850 in total

National Science Foundation Travel Grant for the 2015 4S Annual Meeting, \$350

## **RESEARCH EXPERIENCE**

- 2018- 2019    Research Assistant to Silvia Lindtner, Paul Dourish, Shaowen Bardzell, and Jeffrey Bardzell, "Making 'The Future of Work' Work"  
University of Michigan, Indiana University, University of California, Irvine  
Grant funded by the National Science Foundation Convergence Awards
- 2017- 2019    Research Assistant, Precarity Lab, College of Literature, Science, and the Arts, University of Michigan  
Grant funded by the University of Michigan Humanities Collaboratory
- 2017            Research Assistant to Silvia Lindtner, School of Information, "Innovation and Technology Entrepreneurship Cultures"  
University of Michigan, Ann Arbor  
Grant funded by National Science Foundation
- 2015-2016    Research Assistant to Silvia Lindtner, "Tech Innovation in Asia and American Midwest"  
University of Michigan, Ann Arbor  
Grant funded by the National Science Foundation
- 2014            Research Assistant to Abraham Itty: "Spaces of Technoscience"  
National University of Singapore

## **TEACHING EXPERIENCE**

- 2020            Graduate Student Mentor, School of Information  
University of Michigan, Ann Arbor
- 2016            Graduate Student Instructor, School of Information

SI 110: Introduction to Information Studies  
University of Michigan, Ann Arbor

- 2015 Teaching Assistant, Non-credit, Penny W. Stamps School of Art & Design,  
ARTDES 314: Change by Design  
University of Michigan, Ann Arbor
- 2014 Teaching Assistant, Southeast Asian Studies, SE2211 Southeast Asian Social  
History: Archaeology, Cultural Heritage and Tourism  
National University of Singapore

## **SERVICE AND LEADERSHIP**

### **External Service**

Associate Pictorials Chair, DIS (ACM Conference on Designing Interactive Systems) 2019,  
2020

Reviewer, TOCHI (ACM Transactions on Computer-Human Interaction) 2019, 2020

Reviewer, Science & Technology Studies (official journal of European Association for the  
Study of Science and Technology), 2017

Reviewer, CHI (ACM Conference on Human Factors in Computing Systems), 2016 – 2021

Reviewer, CSCW (ACM Conference on Computer-Supported Cooperative Work), 2019

Reviewer, TEI (ACM Conference on Tangible, Embedded, and Embodied Interaction),  
2018

### **University of Michigan**

Co-Director, Designers of Interactive, Intelligent, Internet of Things Makerspace, University  
of Michigan, School of Information, 2015 – 2019

*A makerspace and design studio to prototype and critically reflect on technologies deployed in design  
research.*

Co-Director, Making Sensory Ethnography Rackham Interdisciplinary Workshop, University  
of Michigan, 2017-2018

*A collaborative, interdisciplinary space to showcase unfinished projects and discuss the process of  
experimenting with ethnographic methods, forms, and content.*

Co-Director, Coordinator of Science and Technology Studies Rackham Reading  
Group, University of Michigan, School of Information, 2017

Workshop Organizer, Neoliberal Fever, University of Michigan, 2017

Conference Organizer, Mini Science and Technology Studies Conference, University of  
Michigan, 2016

## **SKILLS**

Software: R, Python (Basic), ArcGIS (Basic), Ms Office Suite, Processing

Languages: Indonesian (fluent, 8 years study), Mandarin (Native speaker), Hokkien (Native  
speaker), English (Native speaker)