Leesha Shah

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APPROACH

I explore how technical systems, effective processes, and social structures integrate as **socio-technical ecosystems** that surface ways to optimally use limited resources in a community. Specifically, I investigate how such ecosystems can scale effective learning environments, where students learn to self-direct complex work in communities with limited mentoring resources. I take a design-based research approach, and work at the intersection of Human-Computer Interaction (HCI). Learning Sciences (LS), and Computer-Supported Cooperative Work (CSCW).

APPOINTMENTS Northeastern Illinois University (Chicago, IL)

Aug 2024 onward

Assistant Professor

Department of Computer Science, College of Business and Technology

Northeastern Illinois University (Chicago, IL)

Jan 2023 - Aug 2024

Instructor.

Department of Computer Science, College of Business and Technology

EDUCATION

Northwestern University (Evanston, IL)

Dec 2023

Ph.D. in Computer Science and Communication Studies

Thesis: Agile Research Studios: Designing Learning Ecosystems to Scale Effective

Committee: Haogi Zhang (Chair), Darren Gergle, Eleanor O'Rourke, Julie Hui

Northwestern University (Evanston, IL)

Jun 2021

Master of Science in Technology and Social Behavior

Northwestern University (Evanston, IL) Bachelor of Arts in Computer Science

Jun 2015

COMMUNITIES

moliriLab - leesha.io/moliriLab, director

Delta Lab - delta.northwestern.edu. member

Design, Technology, & Research (DTR) Program - dtr.northwestern.edu, member

AWARDS

Microsoft Ph.D. Fellowship Departmental Nomination Segal Cluster Design Research Fellowship	2017-2018
· ·	2016-2017
Grace Hopper ACM Student Research Competition, 2nd Place Undergraduate Research Grant (\$1000)	2015 2015

PUBLICATIONS

* advised student

2023 Leesha Maliakal Shah. "Agile Research Studios: Learning Ecosystems to Scale Effective Research Training." Doctoral Dissertation. Northwestern University, 2023.

2022 *Molly Pribble, *Neha Sharma, Haogi Zhang, and Leesha Maliakal Shah. "MindYoga: Scaffolding the Metacognitive Reflection Process within Learning Ecosystems." CHI Late-Breaking Work 2022.

- 2020 Spencer E. Carlson, Daniel G. Rees Lewis, Leesha V. Maliakal, Elizabeth M. Gerber, and Matthew W. Easterday. "The design risks framework: Understanding metacognition for iteration." *Design Studies* 70 (2020): 100961.
- 2019 *Victoria Cabales. "Muse: Scaffolding metacognitive reflection in design-based research." 2019 CHI ACM Student Research Competition, in Extended Abstracts of the 2019 CHI Conference on Human Factors in Computing Systems, pp. 1-6. 2019.
- 2018 Spencer E. Carlson, **Leesha V. Maliakal**, Daniel Rees Lewis, Jamie Gorson, Elizabeth Gerber, and Matthew Easterday. "Defining and assessing risk analysis: The key to strategic iteration in real-world problem solving." International Society of the Learning Sciences, Inc.[ISLS]., 2018.
- 2018 Daniel G. Rees Lewis, Jamie Gorson, Leesha V. Maliakal, Spencer E. Carlson, Elizabeth M. Gerber, Christopher K. Riesbeck, and Matthew W. Easterday. "Planning to Iterate: Supporting iterative practices for real-world ill-structured problem-solving." Rethinking Learning in the Digital Age. Making the Learning Sciences Count 2018 (2018): 9.
- 2017 Haoqi Zhang, Matthew W. Easterday, Elizabeth M. Gerber, Daniel Rees Lewis, and **Leesha V. Maliakal**. "Agile research studios: Orchestrating communities of practice to advance research training." In *Proceedings of the 2017 ACM Conference on Computer Supported Cooperative Work and Social Computing*, pp. 220-232. 2017.
- 2015 Leesha V. Maliakal. "CrowdCheer: Situational Crowdsourcing of Motivation for Runners." Grace Hopper ACM Student Research Competition, 2nd Place of 117 participants. (2015).

ADVISING

I have advised 18 students in independent research across my three areas of work, culminating in 50 terms of mentorship, \$10,000 of undergraduate research funding for their proposed projects, and 5 paper submissions.

REFLECTION SYSTEMS

Molly Pribble (6 terms)

Jan 2021 - May 2022

- ★ Advised on "MindYoga: Scaffolding the Metacognitive Reflection Process within Learning Ecosystems"
- ★ Work led to Undergraduate Research Grant Award (\$1000); CHI 2022 Late Breaking Work Paper

Isaac Miller (1 term)

Jan 2022 - Mar 2022

- ★ Advised on "MindYoga: Scaffolding the Metacognitive Reflection Process within Learning Ecosystems"
- ★ Work led to Undergraduate Research Grant Award (\$1000)

Neha Sharma (3 terms)

Jan 2021 - Dec 2021

- ★ Advised on "MindYoga: Scaffolding the Metacognitive Reflection Process within Learning Ecosystems"
- ★ Work led to CHI 2022 Late Breaking Work Paper

Olivia Gallager (3 terms)

Jan 2020 - Dec 2020

- ★ Advised on "Metacognitive Reflection System"
- ★ Work led to Undergraduate Research Grant Award (\$1000)

Zev Stravitz (2 terms)

Jan 2020 - Jun 2020

- ★ Advised on "Metacognitive Reflection System"
- ★ Work led to Undergraduate Research Grant Award (\$1000)

Judy Lee (1 term)

Jan 2019 - Mar 2019

★ Advised on "Muse: Scaffolding Metacognitive Reflection in Design-Based Research"

Victoria Cabales (3 terms)

Mar 2018 - Jun 2019

- ★ Advised on "Muse: Scaffolding Metacognitive Reflection in Design-Based Research"
- ★ Work led to Undergraduate Research Grant Award (\$1000); CHI 2019 ACM Student Research Competition Paper

Maggie Lou (1 term)

Jan 2018 - Mar 2018

★ Co-advised on "Metacognitive Reflection in Design-Based Research"

Nneoma Oradiegwu (2 terms)

Sep 2017 - Mar 2018

- ★ Co-advised on "Metacognitive Reflection in Design-Based Research"
- ★ Work led to Undergraduate Research Grant Award (\$1000)

HELPSEEKING SYSTEMS

Nidhi Patel (1 term)

Aug 2023 - Dec 2023

★ Advised on "Resumator: Scaffolding Resume Building with Expert Feedback"

Aimee van den Berg (4 terms)

Sep 2021 - Dec 2021

- ★ Advised on "The STASH: Scaffolding the Helpseeking Process within Learning Ecosystems"
- ★ Work led to Undergraduate Research Grant Award (\$1000); CHI 2022 Late Breaking Work Submission (under review)

Ariella Silver (3 terms)

Jan 2021 - Dec 2021

- ★ Advised on "The STASH: Scaffolding the Helpseeking Process within Learning Ecosystems"
- ★ Work led to Undergraduate Research Grant Award (\$1000); CHI 2022 Late Breaking Work Submission (under review)

Natalie Ghidali (1 term)

Mar 2020 - Jun 2020

★ Advised on "The Weekly: Skill Tracking and Development for Helpseeking in a Research Community"

Shankar Salwan (6 terms)

Sep 2018 - Jun 2020

- ★ Advised on "The Weekly: Skill Tracking and Development for Helpseeking in a Research Community"
- ★ Work led to Undergraduate Research Grant Award (\$1000); CHI 2019 ACM Student Research Competition Submission

Sehmon Burnam (3 terms)

Sep 2017 - Jun 2018

★ Co-advised on "Douglas: Skill Tracking and Development for Helpseeking in Research Communities"

PLANNING SYSTEMS

Sameer Srivastava (5 terms)

Jan 2016 - Jun 2017

- ★ Co-advised on "Polaris: Scaffolding the Creation and Evaluation of Design Arguments for Undergraduate"
- ★ Work led to Undergraduate Research Grant Award (\$1000); CHI 2018 Full Paper Submission

Bomani McClendon (5 terms)

Jan 2016 - Jun 2017

- ★ Co-advised on "Polaris: Scaffolding the Creation and Evaluation of Design Arguments for Undergraduate"
- ★ Work led to Undergraduate Research Grant Award (\$1000); CHI 2018 Full Paper Submission

TEACHING

INSTRUCTIONAL AND CURRICULAR DESIGN

Northeastern Illinois University

Jan 2023 - present

- ★ CS 207: Programming II (OOP + Data Structures)
- ★ CS 342: Introduction to HCI
- ★ CS 414: Web Application Development

Northwestern CS 330: Introduction to HCI

Sep 2021 - Dec 2021

- ★ Redesigned a 30-student studio curriculum to scale for 120+ students.
- ★ Designed and directed a 10-week TA mentor training program to scale the course, for training a team of 5 TAs in effective design coaching practices.
- ★ Head TA for course, orchestrated logistics for course at scale, directly responsible for 2 sections, and 35 students.
- ★ Guest lecturer for Interface Arguments and Risk Assessment.

Agile Research University Program

2016 - present

- ★ Designed and implemented a starter kit for faculty interested in starting their own research studio, based on our Agile Research Studio (ARS) model.
- ★ Hosted 10+ faculty visits, where they actively participated in our studio practices for a week (from Berkeley, MIT, CMU, UCSD, Virginia Tech, Michigan, Northwestern, NYU, University of Washington, King's College London, Microsoft Research).

Brave Initiatives, Inc.: BraveCamp Program

2015 - 2020

- ★ Designed and implemented a 1-week coding curriculum as part of a design camp for middle and high school girls.
- ★ Taught coding curriculum to 10+ BraveCamps, reaching 100+ middle and high school girls.
- ★ Curriculum used to train a team of coding coaches, who collectively ran 25 camps, reaching over 700+ girls in 8 cities across the US.

Design for America: Iterative Planning Curriculum

Jun 2017 - Jul 2017

★ Designed, implemented, and taught a 10-week iterative planning curriculum for Design for America Summer Studio at Northwestern University.

INVITED LECTURES

How to De-risk Designs like an Expert System Designer Purdue Fort Wayne SE 530: Systems Engineering Management	Nov 18, 2021
Interface Arguments Northwestern CS 330: Introduction to HCI	Nov 8, 2021
Risk Assessment Northwestern CS 330: Introduction to HCI	Oct 11, 2021

Design Arguments and Community Support

Mar 25, 2020

Harvard CS 179: Design of Useful and Usable Interactive Systems

INVITED

Forward: A film about learning and growth

TALKS

A documentary film following the DTR community. Furnace FPS - 2021

www.forward.movie

Not All is Lost: Finding work/life balance in grad school after my dad passed

The Story Collider Podcast: Chicago Live Show - July 17, 2020

www.storvcollider.org

Continual Support Systems: Connecting Needs to Resources in Communities

Regina Dominican High School Career Day - Feb 28, 2019

Continual Support Systems to Orchestrate Research Communities

NU HCI Student Research Colloquium Series - Feb 22, 2018

SERVICE

Reviewer for ICLS 2018 (3), CHI 2019 (2), DIS 2019, CSCW 2019, CSCW 2020,

CSCW 2021, and CHI 2021.

Committee Chair for Curriculum, and Hackathon in NEIU Computer Science.

Committee Chair for Social Media, DTR Interviewing and Recruitment, and Lab Space Design committees within the Design, Technology, Research program and

Delta Lab.

REFERENCES

Dr. Haoqi Zhang

Northwestern University

Associate Professor of Computer Science and Segal Design Institute

Dr. Darren Gergle

Northwestern University

Professor of Communication Studies, Computer Science by courtesy

Former Director of Graduate Studies for Technology and Social Behavior Ph.D.

Dr. Eleanor O'Rourke

Northwestern University

Assistant Professor of Computer Science and Learning Sciences

Dr. Julie Hui

University of Michigan

Assistant Professor of Information

Dr. Elena Glassman

Harvard University

Assistant Professor of Computer Science