Leesha Shah

Substitution of the state o

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	Assist	eastern Illinois University (Chicago, IL) ant Professor	Aug 2024 onward		
	Department of Computer Science, College of Business and Technology				
	Instruc	eastern Illinois University (Chicago, IL) ctor, tment of Computer Science, College of Business and Tea	Jan 2023 - Aug 2024 chnology		
EDUCATION		western University (Evanston, IL)	Dec 2023		
	Ph.D. in Computer Science and Communication Studies Thesis: Agile Research Studios: Designing Learning Ecosystems to Scale Effective Research Training				
	Committee: Haoqi Zhang (Chair), Darren Gergle, Eleanor O'Rourke, Julie Hui				
		western University (Evanston, IL) r of Science in Technology and Social Behavior	Jun 2021		
		western University (Evanston, IL) elor of Arts in Computer Science	Jun 2015		
COMMUNITIES	moliriLab - <u>leesha.io/moliriLab,</u> <i>director</i> Delta Lab - <u>delta.northwestern.edu,</u> <i>member</i> Design, Technology, & Research (DTR) Program - <u>dtr.northwestern.edu,</u> <i>member</i>				
AWARDS	Micros	soft Ph.D. Fellowship Departmental Nomination	2019		
	Segal Cluster Design Research Fellowship2017-2018				
	Post-Baccalaureate Research Fellowship2016-2017Grace Hopper ACM Student Research Competition, 2nd Place2015Undergraduate Research Grant (\$1000)2015				
	Under	graduate Research Grant (\$1000)	2015		
PAPERS	PUBLISHED				
	* advised student				
	2022	*Molly Pribble, *Neha Sharma, Haoqi Zhang, and Leesl "MindYoga: Scaffolding the Metacognitive Reflection Pr Ecosystems." <i>CHI Late-Breaking Work 2022.</i>			
	2020	Spencer E. Carlson, Daniel G. Rees Lewis, Leesha V. I Gerber, and Matthew W. Easterday. "The design risks fr			

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.
- Daniel G. Rees Lewis, Jamie Gorson, Leesha V. Maliakal, Spencer E. 2018 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 Haogi 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).

UNDER REVISION

* advised student

Leesha Maliakal Shah, Daniel Rees Lewis, *Bomani McClendon, *Sameer Srivastava, Matthew Easterday, Darren Gergle, and Haogi Zhang. "Polaris: Scaffolding the Creation and Evaluation of Design Arguments for Novice Designers." To be submitted at Computer Supported Cooperative Work (CSCW) 2023.

Leesha Maliakal Shah and Haogi Zhang, "Continual Support Systems: An Approach to Engaging Ad-hoc Crowds in Community Support." To be submitted at Computer Supported Cooperative Work (CSCW) 2023.

*Aimee van den Berg, *Ariella Silver, Haoqi Zhang, and Leesha Maliakal Shah. "The STASH: Scaffolding the Helpseeking Process within Learning Ecosystems." To be submitted at Computer Supported Cooperative Work (CSCW) 2023.

I have advised 18 students in independent research across my three areas of work, ADVISING 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**

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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

Jan 2022 - Mar 2022

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

Isaac Miller (1 term) ★ Advised on "MindYoga: Scaffolding the Metacognitive Reflection Process

- Student Research Competition Submission Sep 2017 - Jun 2018
- Sehmon Burnam (3 terms) ★ Co-advised on "Douglas: Skill Tracking and Development for Helpseeking in **Research Communities**"

★ Work led to Undergraduate Research Grant Award (\$1000); CHI 2019 ACM

PLANNING SYSTEMS

Sameer Srivastava (5 terms)

- ★ 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)

- ★ 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

INSTRUCTIONAL AND CURRICULAR DESIGN TEACHING

Northeastern Illinois University

- ★ 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

Jan 2023 - present

- \star 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

- ★ 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

- ★ 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

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2016 - present

2015 - 2020

Jan 2016 - Jun 2017

Jan 2016 - Jun 2017

	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 Harvard CS 179: Design of Useful and Usable Interactive Systems	Mar 25, 2020 S			
INVITED TALKS	Forward: A film about learning and growth A documentary film following the DTR community. Furnace FPS - <i>2021</i> <u>www.forward.movie</u>				
	Not All is Lost: Finding work/life balance in grad school after my dad passed The Story Collider Podcast: Chicago Live Show - <i>July</i> 17, 2020 <u>www.storycollider.org</u>				
	Continual Support Systems: Connecting Needs to Resources in Communities Regina Dominican High School Career Day - <i>Feb 28, 2019</i>				
	Continual Support Systems to Orchestrate Research Communities NU HCI Student Research Colloquium Series - <i>Feb 22, 2018</i>				
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 Associate Professor of Computer Science and Segal Design Instit	nwestern University ute			
	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 North Assistant Professor of Computer Science and Learning Sciences	nwestern University			
	Dr. Julie Hui Un Assistant Professor of Information	iversity of Michigan			
	Dr. Elena Glassman Assistant Professor of Computer Science	Harvard University			