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OVERVIEW

I build sociotechnical systems which uncover qualitative and longitudinal understandings of how workers from marginalized backgrounds sustain digitized forms of work.

EDUCATION

Carnegie Mellon University, Pittsburgh, PA
Doctor of Philosophy, Human-Computer Interaction

2022

Community-Based Approaches to Building Peer Support Systems for Work

Carnegie Mellon University, Pittsburgh, PA
Master of Science, Human-Computer Interaction

University of California San Diego, La Jolla, CA

2019

Specialized in Computer Science

2014

Bachelor of Science, Cognitive Science

Cum Laude

BOOK CHAPTERS

Designing Scalable and Sustainable Peer Interactions Online (2016). Kulkarni C., Kotturi Y., Bernstein M., Klemmer S. Design Thinking Research, Springer.

JOURNAL PAPERS

Understanding the Challenges of Maker Entrepreneurship (2024) Friedman, N., Bremmers, A., Nyanyo, A., Clark, I., Kotturi, Y., Dabbish, L., Ju, W., Martelaro, N. ACM Transactions on Computer-Human Interaction. Under review.

Heuristic Design of a Hybrid Presentation Medium (2016) Edge, D., Yang, X., Kotturi, Y., Wang, S., Feng, D., Lee, B., Drucker, S; *ACM Transactions on Computer-Human Interaction*.

CONFERENCE PAPERS

Deconstructing the Veneer of Simplicity: Co-Designing Introductory Generative AI Workshops with Local Entrepreneurs (2024) Kotturi, Y., Anderson, A., Ford, G., Skirpan, M., Bigham, J.; *ACM Conference on Computer Human Interaction. Under review.*

Peerdea: Co-Designing a Peer Support System with Creative Entrepreneurs (2024) Kotturi, Y., Yu, J., Khadpe, P., Gatz, E., Zheng, H., Fox, S., Kulkarni, C.; ACM Conference on Computer Supported Cooperative Work.

Sustaining Community-Based Research in Computing: Lessons from Two Tech Capacity Building Initiatives for Local Businesses (2024) Kotturi, Y., Hui, J., Johnson, T., Sanifu, L., Dillahunt, T.; ACM Conference on Computer Supported Cooperative Work.

Surfacing Structural Barriers to Community-Collaborative Approaches in Human-Computer Interaction (2023) Liang, C., Tseng, E., DeWitt, A., Kotturi, Y., Ghoshal, S., Smith, A., Wong-Villacres, M., Wilcox, L., Erete, S.; *ACM Conference on Computer Supported Cooperative Work. Workshop.*

Tech Help Desk: Support for Local Entrepreneurs Addressing the Long Tail of Computing Challenges (2022) Kotturi, Y., Johnson, H., Skirpan, M., Fox, S., Bigham, J., Pavel, A.; ACM Conference on Computer Human Interaction.

The Unique Challenges for Creative Small Businesses Seeking Feedback on Social Media (2021) Kotturi, Y., Blaising, A., Fox, S., Kulkarni, C.; ACM Conference on Computer Supported Cooperative Work.

Making it Work, or not: A Longitudinal Study of Career Trajectories Among Online Freelancers (2021) Blaising, A., Kotturi, Y., Kulkarni, C., Dabbish, L.; ACM Conference on Computer Supported Cooperative Work.

HirePeer: Impartial Peer-Assessed Hiring at Scale in Expert Crowdsourcing Markets (2020) Kotturi Y., Kahng, A., Procaccia, A., Kulkarni, C.; Association for the Advancement of Artificial Intelligence.

The Future of Work(places): Creating a Sense of Place for On-demand Work (2019) Hui, J., Cranshaw, J., Kotturi, Y., Kulkarni, C.; ACM Conference on Computer Supported Cooperative Work. Workshop.

Why do Designers in the "Wild" Wait to Seek Feedback Until Later in their Design Process? (2019) Kotturi, Y., Kingston, M., ACM Conference on Creativity and Cognition. Short paper.

Phases of Uncertainty and Information-Seeking Among Online Freelancers (2019) Blaising, A. Kotturi, Y., Kulkarni, C., ACM Conference on Computer-Human Interaction. Short paper.

Ranking Wily People Who Rank Each Other (2018) Kahng, A., Kotturi Y., Kurokawa, D., Kulkarni, C., Procaccia, A.; Association for the Advancement of Artificial Intelligence.

A Qualitative Investigation of Unmet Information-Seeking Needs of Online Workers (2018) Blaising, A., Askay, D., Kotturi, Y., Kulkarni, C., ACM Conference on Information Systems.

Long-Term Peer Reviewing is Anti-Reciprocal (2017). Kotturi Y., Du, A., Kulkarni C., Klemmer S; *ACM Learning at Scale. Short paper*.

Structure and Messaging Techniques for Online Peer Learning Systems that Increase Stickiness (2015). Kotturi Y., Kulkarni C., Bernstein M., Klemmer S; *Proceedings of ACM Learning at Scale*.

Talkabout: Making Distance Matter with Small Groups in Massive Classes (2015). Kulkarni C., Cambre J., Kotturi, Y., Bernstein M., Klemmer S; *ACM Conference on Computer Supported Collaborative Work.*

Connecting Stories and Pedagogy Increases Participant Engagement in Discussions (2015). Pandey V., Kotturi Y., Kulkarni C., Bernstein M., Klemmer S; *ACM Learning at Scale. Short paper*.

Basal forebrain dynamics provide a teaching signal for motor skill learning (2014). Nitz D., Kotturi Y., Gupta A., Chiba A. Society for Neuroscience. Extended Abstract.

FUNDING Awarded \$129,543

National Science Foundation

Co-PI: Using Technology to Transform Makers into Creative Entrepreneurs

Awarded \$197,044

Presidential Postdoctoral Fellowship,

Artificial Intelligence Frontier, Virginia Tech

Inclusive Futures of Digitally-Mediated Work for Creative Entrepreneurs

Awarded \$120,000

Ignite Venture Postdoctoral Fellowship,

Center for Technology Licensing, Cornell Tech

A Design Registry Platform for Creative Entrepreneurs

Awarded \$26,273

National Science Foundation

Co-PI: Scholarships for Student Attendance at Co-Located Conferences:

Human Computation & Collective Intelligence

Awarded €4,000

Artificial Intelligence Journal

Scholarships for Student Attendance at Human Computation &

Collective Intelligence

Awarded \$50,000

Work in the Age of Intelligent Machines (Co-)Designing an Inclusive Future of Work

Awarded \$35,000

Siebel Foundation

Awarded \$99,497

Meta

Bolstering the Role of Peer-to-Peer Networks in

Early-Stage Product Innovation

AWARDS & EECS Rising Star 2022 HONORS Siebel Scholar 2022

Contributions to Diversity, Computer Science and Engineering, UC San Diego 2016

UC San Diego Cum Laude, 2014

Senior Honors Thesis, Cognitive Science, UC San Diego 2013-2014

INVITED TALKS Facebook (remote) Peerdea: Bolstering the Role of Peer-to-Peer Networks in

 ${\it Early-Stage\ Product\ Innovation\ December\ 2020}$

Facebook, New York City, NY The Role of Peer-to-Peer Networks in Early-Stage

Product Innovation February 2020

Facebook, New York City, NY Designing Peer Interactions Among Online Workers to Enable Worker-Driven Pursuits November 2018

MIT Teaching Systems Lab, Cambridge Massachusetts Building Scalable and

Sustainable Peer Interactions Online June 2016

Hasso-Plattner Institute, Potsdam Germany Leveraging Studio Model for Creating Peer Assessment Environment Online September 2015

Tsinghua University, Beijing China Using Google Hangouts for Small Discussions in Massive Online Classes August 2015

SOFTWARE Peerdea: https://github.com/ykotturi/peerdea/

POSITIONS Postdoc

Pittsburgh, PA HCI INSTITUTE, CARNEGIE MELLON Sept 2022 - present Graduate Research Assistant Pittsburgh, PA HCI INSTITUTE, CARNEGIE MELLON Aug 2016 - Aug 2022 Lead Graduate Teaching Assistant Pittsburgh, PA INSTITUTE OF SOFTWARE RESEARCH, CARNEGIE MELLON Jan 2021 - May 2021 Graduate Teaching Assistant Pittsburgh, PA HCI INSTITUTE, CARNEGIE MELLON Aug 2020 - Dec 2020 Summer Research Fellow Brooklyn, NY ETSY May 2018 - Aug 2018 Summer Research Fellow Cambridge,MA TEACHING SYSTEMS LAB, MIT Jun 2016 - Aug 2016 Graduate Research Assistant La Jolla, CA DESIGN LAB, UC SAN DIEGO Sept 2015 - Jun 2016 **Human-Computer Interaction Intern** Beijing, China May 2015 - Sept 2015 MICROSOFT RESEARCH ASIA Research Assistant La Jolla, CA DESIGN LAB. UC SAN DIEGO Mar 2014 - May 2015 Research Assistant La Jolla, CA COGNITIVE SCIENCE, UC SAN DIEGO Jun 2013 - Jun 2014 Research Assistant La Jolla, CA PSYCHOLOGY, UC SAN DIEGO Jun 2012 - Jun 2013

ACADEMIC SERVICE

Panelist, National Science Foundation, 2023

Associate Paper Chair, Critical Design, ACM Designing Interactive Systems, 2023 Scholarships Chair, AAAI Human Computation and ACM Collective Intelligence, 2023

Program Committee, ACM Learning @ Scale, 2021

Reviewer, ACM Computer-Supported Cooperative Work, 2022-2023

Reviewer, ACM Creativity and Cognition, 2021

Reviewer, ACM Human Factors in Computing, 2017-2022

Reviewer, HCII PhD Admissions Committee, Carnegie Mellon University, 2019

COMMUNITY SERVICE

Co-founder, Tech Help Desk, Community Forge, Wilkinsburg PA, 2019-present https://www.forge.community/services/tech-help-desk

Co-founder, The Breakfast Club for Queer and Gender Minorities, Carnegie Mellon University, 2019-2022

Member, Respect and Relationships Committee, Carnegie Mellon University, 2019

Member, HCII-Improve, Carnegie Mellon University, 2018-2020

Officer, Graduate Queers and Allies, Carnegie Mellon University, 2018-2019

TEACHING & MENTORING

Lead Graduate Teaching Assistant, Ethics and Policy Issues in Computing (CMU 17-200). Managed three graduate teaching assistants, oversaw student feedback and grading. Taught by Jim Herbsleb and Laura Dabbish.

Graduate Teaching Assistant, Designing Human-Centered Software (CMU 05-891). Taught by Chris Harrison.

Guest Instructor, Design Thinking for Leading and Learning (MIT 11.155x). Taught by Justin Reich. Led sketching, storyboarding, prototyping portion of design thinking curriculum

Graduate Teaching Assistant, Human-Computer Interaction Design (UCSD CSE170). Taught by Scott Klemmer. Each week, led two 70-minutes studio sessions where I offered 30 students studio critique on their mobile web applications. As the technical TA, I prepared and led weekly labs for all 200 students on mobile web application development.

Graduate Teaching Assistant, The Design of Everyday Things (UCSD DSGN1). Taught by Don Norman and Jim Hollan. Assisted with the design of the course, and led two-hour discussion sessions each week with 50 students where I offered studio critique.

Co-Instructor, *Tech for Entrepreneurs (Community Forge)*. Co-designed curriculum to facilitate technology use among local entrepreneurs. Taught with Amil Cook.

Mentoring I have been fortunate to work closely with 12 graduate and undergraduate students.

- Clara Lam, BS Information Systems, CMU '24
- Quentin Romero, BS Computer Science, University of Pittsburgh '26
- Yaxin Hu, PhD Computer Science, University of Wisconsin '26
- Pranav Khadpe, PhD Human-Computer Interaction, CMU '26
- Erin Gatz, PhD Education, University of Pittsburgh '23, now at CMU
- Jiani Huang, BS Psychology and Informatics, UW '23, now at U Michigan
- Emmaline Mai, BS Computer Science, CMU '23, now at Hasso Plattner
- Harvey Zheng, BS Statistics and Machine Learning, CMU '23, now at Amazon
- Jenny Yu, BS Computer Engineering, CMU '21, now at Subtle Medical
- Allison Blaising, BA Communication, Cal Poly '19, now at Upwork
- Andrew Du, BS Computer Science UCSD '17, now at Google
- Xiaohui Tong, MS Computer Science Stanford '17, now at Booking

Relevant Coursework

Software Engineering for Start Ups with Michael Hilton CMU
Truth, Justice, and Algorithms with Ariel Proceacia CMU
Fundamentals of Learning from the Crowd with Nihar Shah CMU
Data Science for Psychology & Neuroscience with Timothy Verstynen CMU
Web Application Development with Jeffrey Eppinger CMU
Teaching Methods in Computer Science with Mia Minnes UCSD
Human-Computer Interaction Design with Scott Klemmer UCSD

Interaction Design Research with Scott Klemmer UCSD

Service Design with Jodi Forlizzi CMU

Computer Science Perspectives in HCI with Brad Myers CMU

Design Perspectives in HCI with Jodi Forlizzi CMU

Cognitive Perspectives in HCI with Niki Kittur CMU

HCI Process and Theory with Niki Kittur CMU

Social Perspectives in HCI with Geoff Kaufman CMU

Sketching User Experience with Bill Buxton UCSD

How To Search with Dan Russell Google via UCSD

Cognitive Ethnography with Ed Hutchins UCSD

Distributed Cognition with David Kirsh UCSD

Engineering Psychology with Hal Pashler UCSD

Accelerated Intro to Programming: Java with Rick Ord UCSD

Data Structures and OO Design Java, C, C++ with Gary Gillespe UCSD

Discrete Mathematics with Mia Minnes UCSD

Neural Registry of Attention with Douglas Nitz UCSD

Systems Neuroscience with Douglas Nitz UCSD

Neuroanatomy and Physiology with Jaime Pineda UCSD

Sensation and Perception with Steven Barrera UCSD

Learning, Memory and Attention with Sarah Creel UCSD

Modeling and Data Analysis with Virginia De Sa UCSD

Design and Analysis of Experiments with Rafael Nunez UCSD

REFERENCES

Chinmay Kulkarni

Associate Professor of Computer Science, Emory University chinmay.kulkarni@emory.edu

Jeffrey Bigham

Professor of Human-Computer Interaction, Carnegie Mellon jbigham@cs.cmu.edu

Tawanna Dillahunt

Professor of Information Science, University of Michigan tdillahu@umich.edu

Ariel Procaccia

Gordon McKay Professor of Computer Science, Harvard University arielpro@seas.harvard.edu

Sarah Fox

Assistant Professor of Human-Computer Interaction, Carnegie Mellon sarahf@cs.cmu.edu