

YASMINE KOTTURI

ykotturi@cs.cmu.edu · <https://cs.cmu.edu/~ykotturi>

- OVERVIEW** I build systems to reimagine interface designs of generative AI technologies for creatives and entrepreneurs who have various levels of AI literacy.
- EDUCATION**
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|---|------|
| Carnegie Mellon University, Pittsburgh, PA | 2022 |
| <i>Doctor of Philosophy, Human-Computer Interaction</i> | |
| <i>Community-Based Approaches to Building Peer Support Systems for Work</i> | |
| Carnegie Mellon University, Pittsburgh, PA | 2019 |
| <i>Master of Science, Human-Computer Interaction</i> | |
| Specialized in Computer Science | |
| University of California San Diego, La Jolla, CA | 2014 |
| <i>Bachelor of Science, Cognitive Science</i> | |
| 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** **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*.
- 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*.
- Local Entrepreneurs Sustain Use of Generative AI with Shared Accounts and Trusted Networks** (2024) Lauro, Q., Bigham, J. Kotturi, Y.; *ACM Conference on Computer Human Interaction. Short Paper. Under review*.
- “This really let’s us see the entire world:” Designing a conversational telepresence robot for homebound older adults** (2024) Hu, Y., Stegner, L., Kotturi, Y., Zhang, C., Peng, Y., Huq, F., Zhao, Y., Bigham J., Multu B.; *ACM Conference on Designing Interactive Systems. Under review*.
- Understanding the Challenges of Maker Entrepreneurship** (2024) Friedman, N., Bremmers, A., Nyanyo, A., Clark, I., Kotturi, Y., Dabbish, L., Ju, W., Martelaro, N. *ACM Conference on Computer Supported Cooperative Work. Under review*.

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., Dabish, 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
	<i>National Science Foundation</i>	
	Co-PI: Using Technology to Transform Makers into Creative Entrepreneurs	
	Awarded	\$197,044
	<i>Presidential Postdoctoral Fellowship,</i>	
	<i>Artificial Intelligence Frontier, Virginia Tech</i>	
	Inclusive Futures of Digitally-Mediated Work for Creative Entrepreneurs	
	Awarded	\$120,000
<i>Ignite Venture Postdoctoral Fellowship,</i>		
<i>Center for Technology Licensing, Cornell Tech</i>		
A Design Registry Platform for Creative Entrepreneurs		
Awarded	\$26,273	
<i>National Science Foundation</i>		
Co-PI: Scholarships for Student Attendance at Co-Located Conferences: Human Computation & Collective Intelligence		
Awarded	€4,000	
<i>Artificial Intelligence Journal</i>		
Scholarships for Student Attendance at Human Computation & Collective Intelligence		
Awarded	\$50,000	
<i>Work in the Age of Intelligent Machines</i>		
(Co-)Designing an Inclusive Future of Work		
Awarded	\$35,000	
<i>Siebel Foundation</i>		
Awarded	\$99,497	
<i>Meta</i>		
Bolstering the Role of Peer-to-Peer Networks in Early-Stage Product Innovation		

EXPERIENCE	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
COMPUTER SCIENCE, UC SAN DIEGO	Sept 2015 - Jun 2016
Human-Computer Interaction Intern	Beijing, China
MICROSOFT RESEARCH ASIA	May 2015 - Sept 2015
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

AWARDS & HONORS

EECS Rising Star 2022
 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 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/>

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 (CHI), 2017-2024
 Reviewer, HCII PhD Admissions Committee, Carnegie Mellon University, 2019

COMMUNITY SERVICE

Co-founder, Tech Help Desk, Community Forge, Wilkensburg 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
Vice President, Graduate Women in Computing, UC San Diego, 2015-2016

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-minute 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 Proccacia 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