jane l. e

postdoc [at] stanford hai • incoming assistant professor at nus • ejane [at] stanford.edu • ejane.me

incoming in 2025 Singapore	National University of Singapore Assistant Professor in Computer Science · Smart Systems Institute Affiliate			
2024 – present Stanford, CA	Stanford University Stanford HAI Postdoctoral Fellow National University of Singapore Adjunct Professor · Smart Systems Institute Affiliate Mentor · James Landay			
2021 – 2024 La Jolla, CA	University of California, San Diego Design Lab Postdoctoral Fellow in CSE & Cognitive Science Mentors · Haijun Xia & Steven Dow			
2014 – 2021 Stanford, CA	,			
2008 – 2012 Princeton, NJ	Princeton University Bachelor of Science in Engineering · cum laude Advisors · Thomas Funkhouser & Szymon Rusinkiewicz Major · Computer Science Certificate · Applied & Computational Mathematics			
	publications			
C&C 2024	When to Give Feedback: Exploring Tradeoffs in the Timing of Design Feedback Jane L. E*, Yu-Chun Yen*, Isabelle Pan, Grace Lin, Mingyi Li, Hyoungwook Jin, Mengyi Chen, Haijun Xia & Steven Dow.			
CSCW 2024	ProcessGallery: Contrasting Early and Late Iterations for Design Principle Learning Yu-Chun Yen*, Jane L. E*, Hyoungwook Jin, Mingyi Li, Grace Lin, Isabelle Pan & Steven Dow.			
IUI 2024	Jamplate: Exploring LLM-Enhanced Templates for Idea Reflection Xiaotong Xu, Jiayu Yin, Catherine Gu, Jenny Mar, Sydney Zhang, Jane L. E & Steven Dow.			
UIST 2023	Color Field: Developing Professional Vision by Visualizing the Effects of Color Filters Matthew Beaudouin-Lafon, Jane L. E & Haijun Xia.			
♥ CHI 2023	DataParticles: Block-Based and Language-Oriented Authoring of Animated Unit Visualization Yining Cao, Jane L. E, Zhutian Chen & Haijun Xia. Best Paper Award			
UIST 2021	Dynamic Guidance for Decluttering Photographic Compositions Jane L. E, Kevin Zhai, Jose Echevarria, Ohad Fried, Pat Hanrahan & James Landay.			

^{*} Authors contributed equally

2021	Artistic Vision: Providing Contextual Guidance for Capture-Time Decisions Jane L. E. Dissertation		
CHI 2020	Adaptive Photographic Composition Guidance Jane L. E, Ohad Fried, Jingwan Liu, Jianming Zhang, Radomír Měch, Jose Echevarria, Pat Hanrahan & James Landay.		
UIST 2019	Optimizing Portrait Lighting at Capture-Time Using a 360 Camera as a Light Probe Jane L. E, Ohad Fried & Maneesh Agrawala.		
CHI 2018	How Teens with Visual Impairments Take, Edit, and Share Photos on Social Media Cynthia Bennett, Jane L. E, Martez Mott, Edward Cutrell & Meredith Morris.		
CHI 2018 Understanding the Accessibility of Smartphone Photography for People with Motor Impairmer Martez Mott, Jane L. E, Cynthia Bennett, Edward Cutrell & Meredith Morris.			
UbiComp 2017 Drone Near Me: Exploring Touch-Based Human-Drone Interaction Parastoo Abtahi, David Zhao, Jane L. E & James Landay.			
CHI 2017	Drone & Wo: Cultural Influences on Human-Drone Interaction Techniques Jane L. E, Ilene E, James Landay & Jessica Cauchard. <i>Note</i>		
arXiv 2016	Towards a Drone Cinematographer: Guiding Quadrotor Cameras using Visual Composition Principles Niels Joubert*, Jane L. E*, Dan Goldman, Floraine Berthouzoz, Mike Roberts, James Landay & Pat Hanrahan.		
UbiComp 2015	Drone & Me: An Exploration Into Natural Human-Drone Interaction Jessica Cauchard, Jane L. E, Kevin Zhai & James Landay. <i>Note</i>		
SCA 2015	Automatic Generation of Anatomical Face Simulation Models Matthew Cong, Michael Bao, Jane L. E, Kiran Bhat & Ronald Fedkiw.		
	extended abstracts		
SIGCSE 2023	Developing Comic-based Learning Toolkits for Teaching Computing to Elementary School Learners Francisco Casto, Sangho Suh, Jane L. E , Weena Naowaprateep & Yang Shi. <i>Poster</i>		
C&C 2019 & UIST 2018	Artistic Vision: Providing Contextual Guidance for Capture-Time Decisions Jane L. E. Creativity & Cognition Graduate Student Symposium Jane L. E. UIST Doctoral Symposium		
CHI 2017	Human Perception of Swarm Robot Motion Griffin Dietz, Jane L. E, Peter Washington, Lawrence Kim & Sean Follmer. <i>Late Breaking Work</i>		
	magazine articles		
XRDS 2023	Exploring the Horizon of Computation for Creativity Sam Bourgault & Jane L. E.		
XRDS 2023	Machines as Collaborators for Art and Rituals: An Interview with Sougwen Chung Jane L. E, Cathy Fang & Sam Bourgault.		
	book chapter		
2021	Designing Photography Guidance for Rapid In-Camera Iteration Jane L. E & James A. Landay. Design Thinking Research: Understanding Innovation. Springer. 151-165		

patent

2021 Adaptive Image Armatures with Interactive Composition Guidance

Radomír Měch, Jose Echevarria, Jingwan Lu, Jianming Zhang & Jane L. E

awards & grants

2024	Invited as a Heidelberg Laureate Forum Young Researcher			
2023 CHI Best Paper Award				
2022	Selected for Rising Stars in EECS Workshop			
2021 - 2023	2021 – 2023 UCSD CSE's Debut Postdoctoral Fellows Program			
2018, 2021	Adobe Research Collaboration Grant			
2019	Hasso Plattner Institute Design Thinking Research Program			
2018 - 2020	Microsoft Research Dissertation Grant			
2015, 2017, 2018	The Brown Institute for Media Innovation: Magic Grant · Artistic Vision / Camera Observa / G:Drone			
2016	The Brown Institute for Media Innovation: Magic Grant & Fellowship · RoughCut			
2015	Microsoft Research Women's Scholarship			
2015	NSF GRFP Honorable Mention			
2008	Edward J. Bloustein Scholar			
2008	West Windsor-Plainsboro High Honor Award, Service Award & PTSA Scholarship Award			
2007	1st place in NJIT High School Programming Contest			

work experience

Summer 2018 San Jose, CA		 Adobe Research · Emerging Graphics Group Intern · Mentor: Jose Echevarria Designed and implemented in-camera adaptive composition guidance interface in iOS 	
	Summer 2017 Redmond, WA	Microsoft Research · Research Intern · <i>Mentor: Neel Joshi</i> • Designed and implemented drone camera interface using familiar multitouch gestures in iOS	

Collaborated on design and facilitation of interviews to understand accessibility of mobile photography

Summer 2015 San Francisco, CA Adobe Research · Creative Technologies Lab Intern · Mentor: Floraine Berthouzoz

 Designed and implemented a Unity-based system for previewing and capturing drone shots according to cinematography principles for dialogue scenes

Fall 2012 - 2014 Redmond, WA **Microsoft Corporation** · Software Development Engineer

- Developer on Photos for Windows 8 & 10: main features implemented included rotate and straighten
- Designed and implemented infrastructure / interface for internal feedback tool to assess image analysis algorithms

Spring 2011 - 2012 Princeton, NJ Princeton Graphics · Undergrad Researcher · Advisors: Thomas Funkhouser & Szymon Rusinkiewicz

- Extended Chen et al.'s work on extracting feature ("Schelling") points on 3D meshes to feature lines
- Led collection and analysis of Mechanical Turk dataset of Schelling lines
- · Submitted for junior independent work & senior thesis: Schelling Lines on 3D Surface Meshes

Summer 2010 Redmond, WA **Microsoft Corporation** · Software Development Engineer Intern

 Developer on Photo Gallery: implemented prototype of color filter search and grouping by image similarity (based on a Microsoft Research library)

Summer 2009 Princeton, NJ Princeton Summer Programming Experiences · Participant

• Implemented handwriting recognition program using neural networks

 Program run by Professor Kevin Wayne for prospective Computer Science students to work with a graduate student mentor on a self-selected project

Summer 2007 Beijing, China Microsoft Research Asia · High School Research Engineer Intern

 Implemented algorithm to analyze data to differentiate between inline, superscript, and subscript text for the handwritten mathematical formula recognition project

contributions to diversity

2023 - 2024 UCSD UCSD Design Lab Impact and Student Culture Organization (DISCO) · Founding Member

• Part of the initial team of Design Lab members working with the director to design and implement programs around building a culture of service and community at the Design Lab

• Co-led initiative to create a mentorship program within the lab

Summer 2021

Learning @ Scale / EMOOCS 2021 · ConferenceBuddies Co-Organizer

UCSD

• Helped organize a new initiative to match first-time conference-goers with more senior attendees (with Armando Fox, Berkeley and co-founder of the Learning @ Scale conference)

Spring 2021

UCSD CSE Early Research Scholars Program · Application Reviewer

UCSD

• Reviewed essay questions from student applications

• Team-based research apprentice experience for underrepresented students early in CS career

Fall 2020 Stanford Stanford CS Student-Application Support Program · Application Reviewer

• Student-led program to assist underrepresented CS PhD applicants

• Reviewed and gave feedback to PhD applicants on application materials

2020 - 2022 Stanford Stanford CS Undergraduate Mentoring Program · Mentor

• Student-led program for mentoring underrepresented undergraduates interested in research

• Mentored an undergraduate on college planning and seeking research opportunities

2018 – 2019 Stanford WiGRAPH Berthouzoz Women in Research Lunch · Student Volunteer [Design & Photography]

• Assisted in contacting panelists and coordinating publicity efforts

Designed publicity materials, program, and speaker gifts

• Networking lunch at SIGGRAPH hosting a panel of established women in graphics each year; has grown from a small informal gathering to an event with over 100 participants

2017 – 2020 Stanford **Grace Hopper Conference Career Fair** · Student Representative at Stanford Booth

Assisted students in understanding the CS PhD application process

Reviewed and discussed application materials

• Recommended and helped initiate contact with professors

• Maintained contact with a number of students—one was convinced that she could apply to Stanford after we spoke at the conference and is now there pursuing her PhD

2016 - 2018 Stanford Stanford-Berkeley Women in CS / EE Research Meetup · Co-Organizer & Photographer

• Mini conference aiming to strengthen ties between women researchers at Berkeley and Stanford

• Invited keynote speaker, industry research and academia panelists, organized talks and poster sessions, arranged social / networking opportunities

• For more information: https://stanfordberkeleyresearchmeetup.wordpress.com/

Summer 2015 Adobe Research Girls Who Code · Intern Mentor

• Co-mentored one of the high school participants with a full-time Adobe employee

Fall 2015 Stanford

Castilleja School Girls Hackathon · Design & Tech Mentor

• Co-mentored the youngest group (6th grade) in day-long hackathon to design and implement a game

2011 - 2012

Chinese-American Princeton Siblings · Mentor

Princeton

• Mentored a local Chinese-American high school student

institutional service & leadership

Summer 2022 & 2023

UCSD Design Lab Undergrad Summer Research Program · Mentor

UCSD

• Mentored several undergraduate students per summer on research projects

• Led HCI & design career panels / resume workshops for intern cohort

Fall 2021

UCSD Design Lab Research Meeting · Organizer

UCSD

• Invited speakers and planned activities / discussion topics for the research lab meetings

Fall 2021 UCSD	 UCSD Design & Innovation Building Spaces Committee · Committee Member Discussed how to shape the framework and procedures for allocating space in the new building with a group of Design Lab faculty, postdocs, and PhD students 			
2018 – 2019 Stanford	Stanford CS PhD Admissions Committee · Student Committee Member • Reviewed PhD applications and participated in committee-wide admissions meetings			
2017 – 2018 Stanford	 Stanford HCl Group Lunch · Co-Organizer Invited speakers and planned discussion topics for the talk series (with Liz Murnane, Dartmouth) For speakers who were interested, arranged meetings with students and professors in the group 			
Spring 2016 Stanford	Stanford CS PhD Admit Weekend · Research Area Student Lead • Organized dinner and events for Graphics & HCI PhD admits			
2014 – 2016 Stanford	Common Origins Dance Company · Publicity Officer • Designed company gear and publicity materials for workshops and events			
2012 – 2014 Microsoft	 Princeton Career Fair · Alumni Recruiter at Microsoft Booth Talked to students about full-time and internship opportunities at Microsoft Reviewed resumes and selected candidates for on-campus interviews Organized and facilitated Microsoft at Princeton Hackathon 			
2012 – 2014 Microsoft	 Princeton Club of Western Washington · Young Alumni Coordinator Organized mixers and events for recent graduates and interns Featured on the Daily Princetonian and Alumni Association of Princeton University: http://alumni.princeton.edu/volunteer/profiles/StewardshipLopezE14.pdf 			
2008 – 2012 Princeton				
2008 - 2010	Princeton Bric-A-Brac Yearbook · Section Editor			
2005 – 2008	WWP High School South Yearbook · Editor-in-Chief, Section Editor			
	service to profession			
2024 - 2026	Creativity & Cognition 2025 & 2026 · Organizing Committee • Graduate Student Symposium Co-Chair (with Steven Dow, UCSD)			
2024 - 2025	 CHI 2025 · Associate Chair Subcommittee: Blending Interaction: Engineering Interactive Systems & Tools 			
2023 - 2024	 Creativity & Cognition 2024 · Organizing Committee, Session Chair, DEI Panelist Maintaining conference website as Web Co-Chair (with Grace Yen, UCSD): http://cc.acm.org/2024/ Session Title: Co-Creation 			
2023	UIST 2023 · Associate Chair			
2023	 XRDS: Crossroads, The ACM Magazine for Students · Summer Issue Co-Guest Editor Invited authors to write articles for special issue: Computer-Aided Media Co-authored an introduction to the topic and invited articles (with Sam Bourgault, UCSB) 			
2022 – 2023	Creativity & Cognition 2023 · Organizing Committee • Maintained conference website as Web Co-Chair (with Bradley Rey, UBC): http://cc.acm.org/2023/			
2021 - 2022	UIST 2022 · Organizing Committee, Associate Chair, Session Chair ■ Designed and maintained conference website, logo, and badges as Web and Design Co-Chair (with			

2022	 CHI 2022 · Associate Chair, Session Chair Subcommittee: Interacting with Devices Session Title: Creativity Support Tools
2020 – 2021	 UIST 2021 · Organizing Committee, Associate Chair, Session Chair Designed and maintained conference website and logo as Web and Design Co-Chair (with Toby Li, Notre Dame): http://uist.acm.org/uist2021/ Session Title: Wrangling Data for Authoring & Analysis
2015 – 2016	CHI 2016 · Student VolunteerVolunteered at PC Meeting and at conference
	invited panels & talks
June 2024	DEI Panel Creativity & Cognition Conference · Host: Rocio von Jungenfeld
April 2024 April 2024 April 2024 March 2024 March 2024 March 2024 March 2024 March 2024 February 2024	Artistic Vision: Interactive Computational Guidance for Developing Expertise Boston University: Department of Education and Computing & Data Sciences · Host: Beth Warren National University of Singapore: School of Computing · Host: Yi-Chieh Lee University of Southern California: Department of Computer Science · Host: Souti Chattopadhyay Indiana University: Department of Human-Centered Computing · Host: Ming Jiang Cornell University: Department of Information Science · Host: Malte Jung University of Virginia: Department of Computer Science · Host: Seongkook Heo Tufts University: Department of Computer Science · Host: Diane Souvaine & Rob Jacob Oregon State University: School of Electrical Engineering and Computer Science · Host: Mike Rosulek Stevens Institute of Technology: Department of Computer Science · Host: Yea-Seul Kim
July 2023 June 2023 June 2023 June 2023 May 2023 April 2023 April 2023	Artistic Vision: Providing Contextual Guidance for Creative Tasks University of Washington: DUB Seminar · Host: James Fogarty Tsinghua University: CS HCI Seminar · Hosts: Chun Yu & Shi Yuanchun Fudan University: EDA AI & Math Seminar · Host: Yingzhou Li University of California, Irvine: Informatics Special Talk Series · Host: Stacy Branham University of California, Berkeley: Berkeley Institute of Design Seminar · Host: Jeremy Warner University of Texas, Austin: HCI Seminar · Host: Amy Pavel University of California, San Diego: CSE 191 Interactive Computing Seminar · Host: Mai ElSherief
Dec 2020 Nov 2020 June 2020	Artistic Vision: Providing Contextual Guidance for Capture-Time Decisions Adobe: Tech Talk · Hosts: Marc Levoy & Cecilia Zhang Stanford University: CS547 Seminar on People, Computers, and Design · Host: Michael Bernstein University of Toronto: Dynamic Graphics Project Lab · Hosts: Tovi Grossman & Fanny Chevalier
April 2020	Adaptive Photographic Composition Guidance Adobe Research: HCl & Vis Seminar, Adobe @ CHI · Host: Joy Kim
November 2018	Design and Higher Education Panel Artful Design Manifestival · <i>Host: Ge Wang</i>
	teaching experience
Fall 2023	UCSD COGS120 / CSE170: Interaction Design · Instructor • Conceptually-focused introduction to human computer interaction with 200+ students

• Iterated on lecture topics and course assignments (including introducing a team project)

Invited guest speakers to lecture on topics based on class interest
Attended discussion sections to provide feedback on student projects

Jasper Tran O'Leary, UW): http://uist.acm.org/uist2022/

• Session Title: Storytelling and Presentation

UCSD Guest Lectures

May 2023	DSGN1: Design of Everyday Things · Instructor: Jim Hollan
March 2023	COGS1: Introduction to Cognitive Science · Instructor: Mary Boyle
Oct 2022	COGS120 / CSE170 & DSGN 118: Design for Creativity and Productivity · Instructor: Haijun Xia
Oct 2021	COGS120 / CSE170: Interaction Design · Instructor: Haijun Xia

Summer 2016 Stanford Center at Peking University:

Designing Solutions to Global Grand Challenges · Teaching Assistant

Instructors: James Landay & Ge Wang

- Sole TA for four-week intensive program with students from Stanford and Beijing
- Reviewed applications, managed course logistics, mentored student team projects
- Arranged company and lab visits (in Beijing and Bay Area) and organized final presentations both at the Stanford Center at Peking University and at Stanford d.school

Spring 2016 Stanford CS107E: Computer Systems from the Ground Up · Teaching Assistant

Instructors: Pat Hanrahan, Philip Levis & Dawson Engler

Revised assignments, helped run labs, held office hours, graded assignments and final projects

peer review

CHI · 2025 [AC], 2024**, 2023**, 2022 [AC], 2021, 2019, 2018

UIST · 2023* [AC], 2022* [AC], 2021 [AC], 2020, 2019

DIS · 2023 C&C · 2023 SIGGRAPH · 2022

GI · 2020

HRI · 2020, 2018 **RA-L / ICRA** · 2017

graduate mentees (non-advisees)

Jude Rayan [UCSD CogSci PhD | ProtoLab]

Xiaotong (Tone) Xu [UCSD CogSci PhD | ProtoLab]

Matin Yarmand [UCSD CSE PhD | HXI Lab] · ETH Zurich Intern

Matthew Beaudouin-Lafon [UCSD CogSci PhD | Creativity Lab] · Adobe Research Intern

Yining (Rima) Cao [UCSD CogSci PhD | Creativity Lab] · Adobe Research Intern

Sharvari Thippanna [UCSD CSE Masters] · Software Engineer at Amazon

Parastoo Abtahi [Stanford CS PhD] · Meta Reality Labs Visiting Research Scientist · Princeton University Assistant Professor

Cheng-Yao (Eric) Wang [National Taiwan University CS Masters] · Cornell Information Science PhD

undergraduate & high school mentees

Brendan Mah [UCSD CSE]

Sarah Luo [Purdue CS]

Mengyi (Crystal) Chen [UCSD CogSci] · UPenn Integrated Product Design Masters

Hyoungwook Jin [KAIST CS | KIXLAB] · KAIST CS Masters

Mingyi Li [UCSD CSE] · Microsoft Research Undergraduate Intern · CSE Undergrad Research Award · Northeastern CS PhD

Grace Lin [UCSD CogSci] · Deloitte UX/AI/VR Design Analyst

Isabelle Pan [UCSD CogSci] · Dora Head of Community

Heidi Chen [Stanford CS] · Google Software Engineer

Punya Chatterjee [Stanford CS] · Apple Design Prototyper

 $\textbf{Ilene E} \ [\textbf{WWPHSS High School}] \cdot \textbf{Adobe Research Women-In-Tech Scholar} \cdot \textbf{Schwarzman Scholar} \cdot \textbf{Ubisoft Research Engineer} \\ \textbf{Schwarzman Scholar} \cdot \textbf{Schwarzman$

Kevin Zhai [Stanford Art] · AirLabs, Inc. Software Engineer · freelance Film Director & Editor

^{*} Recognition for outstanding / highly useful review

references

James Landay · Stanford landay @ cs.stanford.edu

Haijun Xia · UCSD haijunxia@ucsd.edu Pat Hanrahan · Stanford hanrahan @cs.stanford.edu

Steven Dow · UCSD spdow@ucsd.edu

Ge Wang · Stanford ge@ccrma.stanford.edu

Jim Hollan · UCSD hollan @ ucsd.edu