jane l. e

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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** CSE / Cognitive Science Postdoctoral Fellow & Instructor Mentors · *Haijun Xia & Steven Dow*
2014 – 2021 Stanford, CA	**Stanford University** PhD in Computer Science · d.school Creativity in Research Scholar Advisors · *James Landay & Pat Hanrahan* Committee · *Maneesh Agrawala, Scott Klemmer & Ge Wang (chair)* Dissertation · *Artistic Vision: Providing Contextual Guidance for Capture-Time Decisions*
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   ♛ Best Paper Award

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 Impairments** 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. *Note*
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. *Note*
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. *Poster*
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. *Late Breaking Work*

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

2023   **CHI Best Paper Award**
2022   **Selected for Rising Stars in EECS Workshop**
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   **Adobe Research** · Emerging Graphics Group Intern · *Mentor: Jose Echevarria*
San Jose, CA   • Designed and implemented in-camera adaptive composition guidance interface in iOS

Summer 2017   **Microsoft Research** · Research Intern · *Mentor: Neel Joshi*
Redmond, WA   • 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   **Adobe Research** · Creative Technologies Lab Intern · *Mentor: Floraine Berthouzoz*
San Francisco, CA   • Designed and implemented a Unity-based system for previewing and capturing drone shots according
                       to cinematography principles for dialogue scenes

Fall 2012 – 2014   **Microsoft Corporation** · Software Development Engineer
Redmond, WA   • 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 Graphics** · Undergrad Researcher · *Advisors: Thomas Funkhouser & Szymon Rusinkiewicz*
Princeton, NJ   • 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   **Microsoft Corporation** · Software Development Engineer Intern
Redmond, WA   • Developer on Photo Gallery: implemented prototype of color filter search and grouping by image
                 similarity (based on a Microsoft Research library)

Summer 2009   **Princeton Summer Programming Experiences** · Participant
Princeton, NJ • 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   **Microsoft Research Asia** · High School Research Engineer Intern
Beijing, China • 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
UCSD

Learning@Scale / EMOOCS 2021 · ConferenceBuddies Co-Organizer
- 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

UCSD CSE Early Research Scholars Program · Application Reviewer
- 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
Princeton

Chinese-American Princeton Siblings · Mentor
- Mentored a local Chinese-American high school student

institutional service & leadership

Summer 2022 & 2023
UCSD

UCSD Design Lab Undergrad Summer Research Program · Mentor
- Mentored several undergraduate students per summer on research projects
- Led HCI & design career panels / resume workshops for intern cohort

Fall 2021
UCSD

UCSD Design Lab Research Meeting · Organizer
- 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 HCI 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	**Triple 8 Dance Company** · President, Costume Coordinator • Designed company gear and coordinated with choreographers to design costumes for each piece • Represented our company at meetings with the broader student performing arts community, ran company practices and board meetings, managed logistics for our annual show
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 – 2025	**Creativity & Cognition 2025** · 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

Jasper Tran O'Leary, UW): http://uist.acm.org/uist2022/
- Session Title: Storytelling and Presentation

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 Volunteer
- Volunteered at PC Meeting and at conference

invited panels & talks

DEI Panel
June 2024   Creativity & Cognition Conference · *Host: Rocio von Jungenfeld*

Artistic Vision: Interactive Computational Guidance for Developing Expertise
April 2024   Boston University: Department of Education and Computing & Data Sciences · *Host: Beth Warren*
April 2024   National University of Singapore: School of Computing · *Host: Yi-Chieh Lee*
April 2024   University of Southern California: Department of Computer Science · *Host: Souti "Rini" Chattopadhyay*
March 2024   Indiana University: Department of Human-Centered Computing · *Host: Ming Jiang*
March 2024   Cornell University: Department of Information Science · *Host: Malte Jung*
March 2024   University of Virginia: Department of Computer Science · *Host: Seongkook Heo*
March 2024   Tufts University: Department of Computer Science · *Host: Diane Souvaine & Rob Jacob*
March 2024   Oregon State University: School of Electrical Engineering and Computer Science · *Host: Mike Rosulek*
February 2024   Stevens Institute of Technology: Department of Computer Science · *Host: Mark Ho*
February 2024   University of Wisconsin-Madison: Department of Computer Sciencey · *Host: Yea-Seul Kim*

Artistic Vision: Providing Contextual Guidance for Creative Tasks
July 2023   University of Washington: DUB Seminar · *Host: James Fogarty*
June 2023   Tsinghua University: CS HCI Seminar · *Hosts: Chun Yu & Shi Yuanchun*
June 2023   Fudan University: EDA AI & Math Seminar · *Host: Yingzhou Li*
June 2023   University of California, Irvine: Informatics Special Talk Series · *Host: Stacy Branham*
May 2023   University of California, Berkeley: Berkeley Institute of Design Seminar · *Host: Jeremy Warner*
April 2023   University of Texas, Austin: HCI Seminar · *Host: Amy Pavel*
April 2023   University of California, San Diego: CSE 191 Interactive Computing Seminar · *Host: Mai ElSherief*

Artistic Vision: Providing Contextual Guidance for Capture-Time Decisions
Dec 2020   Adobe: Tech Talk · *Hosts: Marc Levoy & Cecilia Zhang*
Nov 2020   Stanford University: CS547 Seminar on People, Computers, and Design · *Host: Michael Bernstein*
June 2020   University of Toronto: Dynamic Graphics Project Lab · *Hosts: Tovi Grossman & Fanny Chevalier*

Adaptive Photographic Composition Guidance
April 2020   Adobe Research: HCI & Vis Seminar, Adobe @ CHI · *Host: Joy Kim*

Design and Higher Education Panel
November 2018   Artful Design Manifestival · *Host: Ge Wang*

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

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
*Recognition for outstanding / highly useful review

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
Ilene E [WWPHSS High School] · Adobe Research Women-In-Tech Scholar · Schwarzman Scholar · Ubisoft Research Engineer
Kevin Zhai [Stanford Art] · AirLabs, Inc. Software Engineer · freelance Film Director & Editor

references

James Landay · Stanford
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Ge Wang · Stanford
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Steven Dow · UCSD
spdow@ucsd.edu

Jim Hollan · UCSD
hollan@ucsd.edu