jane l. e

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2021 – present La Jolla, CA	**University of California, San Diego | Design Lab** CSE Postdoctoral Fellow · Cognitive Science Instructor / Postdoc Mentors · *Haijun Xia & Steven Dow*
2014 – 2021 Stanford, CA	**Stanford University** PhD Candidate 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

Under Review C&C	**When to Give Feedback? Exploring In-Action Feedback in a Visual Design Tool** **Jane L. E***, Yu-Chun Yen*, Isabelle Pan, Grace Lin, Mingyi Li, Hyoungwook Jin, Mengyi Chen, Haijun Xia & Steven Dow. *Paper*
To Appear 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. *Paper*
To Appear 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. *Paper*
UIST 2023	**Color Field: Developing Professional Vision by Visualizing the Effects of Color Filters** Matthew Beaudouin-Lafon, **Jane L. E** & Haijun Xia. *Paper*
🏆 CHI 2023	**DataParticles: Block-Based and Language-Oriented Authoring of Animated Unit Visualization** Yining Cao, **Jane L. E**, Zhutian Chen & Haijun Xia. *Paper*
UIST 2021	**Dynamic Guidance for Decluttering Photographic Compositions** **Jane L. E**, Kevin Zhai, Jose Echevarria, Ohad Fried, Pat Hanrahan & James Landay. *Paper*
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. *Paper*

* Authors contributed equally　　　　🏆 Best Paper Award

UIST 2019	**Optimizing Portrait Lighting at Capture-Time Using a 360 Camera as a Light Probe** **Jane L. E**, Ohad Fried & Maneesh Agrawala. *Paper*
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. *Paper*
CHI 2018	**Understanding the Accessibility of Smartphone Photography for People with Motor Impairments** Martez Mott, **Jane L. E**, Cynthia Bennett, Edward Cutrell & Meredith Morris. *Paper*
UbiComp 2017	**Drone Near Me: Exploring Touch-Based Human-Drone Interaction** Parastoo Abtahi, David Zhao, **Jane L. E** & James Landay. *Paper*
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. *Paper*
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. *Paper*

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**

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 · *Mentor: Neel Joshi*
• 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 – present
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
• Leading initiatives to create a mentorship program within the lab and an application feedback program for underrepresented students (modeled after Stanford CS PhD's SASP)

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 @ Princeton Hackathon

2012 – 2014	**Princeton Club of Western Washington** · Young Alumni Coordinator
Microsoft	• 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	**Triple 8 Dance Company** · President, Costume Coordinator
Princeton	• 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

| 2023 – 2024 | **Creativity & Cognition 2024** · Organizing Committee |
| | • Maintaining conference website as Web Co-Chair (with Grace Yen, UCSD): http://cc.acm.org/2024/ |

| 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 the individual 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 |

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**

invited talks

Artistic Vision: Interactive Computational Guidance for Developing Expertise

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	Cornell University: Department of Information Science · *Host: David Mimno*
March 2024	University of Virginia: Department of Computer Science · *Host: Kevin Skadron*
March 2024	Tufts University: Department of Computer Science · *Host: Diane Souvaine*
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: School of Computer, Data & Information Sciences · *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*

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 a team project)
- Invited guest speakers to lecture on topics based on class interest
- Attended discussion sections to provide feedback on team 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

Fall 2015 **Stanford CS147: Introduction to Human-Computer Interaction Design** · Head Teaching Assistant
Instructor: James Landay
- Ran weekly studios and TA meetings, managed course logistics, held office hours, graded exams and assignments, proctored exam, organized final presentations at Stanford d.school
- Awarded additional stipend for effective performance as head TA of a 200+ student class

peer review

CHI · 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]
Matthew Beaudouin-Lafon [UCSD CogSci PhD | Creativity Lab]
Yining (Rima) Cao [UCSD CogSci PhD | Creativity Lab] · Adobe Research Intern
Sharvari Thippanna [UCSD CSE Masters]
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

undergrad and high school mentees

Brendan Mah [UCSD CSE Undergraduate]
Sarah Luo [Purdue CS Undergraduate]
Mengyi (Crystal) Chen [UCSD CogSci Undergraduate] · applying for Masters programs
Hyoungwook Jin [KAIST CS Undergraduate | KIXLAB] · KAIST CS Masters
Mingyi Li [UCSD CSE Undergraduate] · Microsoft Research Undergraduate Intern · applying for PhD programs
Grace Lin [UCSD CogSci Undergraduate] · Deloitte UX/AI/VR Design Analyst
Isabelle Pan [UCSD CogSci Undergraduate] · Dora Head of Community
Heidi Chen [Stanford CS Undergraduate] · Google Software Engineer
Punya Chatterjee [Stanford CS Undergraduate] · Apple Design Prototyper
Ilene E [WWPHSS High School] · Adobe Research Women-In-Tech Scholar · Schwarzman Scholar · Ubisoft Research Engineer
Kevin Zhai [Stanford Art Undergraduate] · AirLabs, Inc. Software Engineer · freelance Film Director & Editor

references

James Landay · Stanford
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Pat Hanrahan · Stanford
hanrahan@cs.stanford.edu

Ge Wang · Stanford
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Haijun Xia · UCSD
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Steven Dow · UCSD
spdow@ucsd.edu

Jim Hollan · UCSD
hollan@ucsd.edu