

KEVIN M. STORER

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SUMMARY

I am a User Experience and Human-Computer Interaction Researcher with 7+ years of experience leading cutting-edge research in private and public settings. I have domain expertise in human-centered programming, developer experience, cyber-physical systems, and enterprise settings. My work has informed the design of both novel, experimental technologies and products with billions of global users.

EDUCATION

Ph.D., Informatics, University of California, Irvine — 2021

Thesis: *Advancing Critical and Socially-Oriented Approaches to Domestic Accessible Computing Research*

M.S., Computer Science, Clemson University — 2017

Thesis: *Nuanced Views of Pedagogical Evaluation*

B.S., Computer Science, Bowling Green State University — 2015

RESEARCH

RESEARCH POSITIONS

2021- **Google** — Firebase

User Experience Researcher

Leading research across a portfolio of five backend-as-a-service products to inform the design of novel tools to support software developers in verifying the stability of their web and mobile apps.

2018-21 **University of California, Irvine** — Donald Bren School of Information & Computer Science

Graduate Research Assistant || Advisor: Stacy Branham

Led research to examine sociocultural factors impacting families' adoption of accessible technologies and develop a framework for ethical accounting of these considerations in design.

2020 **Google** — Google Cloud

User Experience Research Intern || Host: Harini Sampath

Led remote observations and interviews with software developers who use screen readers to understand how accessibility in technical documentation affects the development experience.

2019 **Google** — Google Assistant

User Experience Research Intern || Host: Tejinder Judge

Led a pair interview study of parents with and without visual impairments to understand how mixed-visual-ability families use voice assistants in their domestic lives.

2017-18 **University of California, Irvine** — Donald Bren School of Information & Computer Science

Graduate Research Assistant || Advisor: Gloria Mark

Conducted experimental research to understand how push notification patterns affect knowledge workers' sympathetic stress levels while multitasking in the workplace.

2015-17 **Clemson University** — School of Computing

Graduate Research Assistant || Advisor: Jacob Sorber

Led feasibility and usability studies of novel development tools and languages designed to support computer engineers in programming and deploying Internet-of-Things devices.

PUBLICATIONS

Journal Articles

- [J.1] Ali Abdolrahmani, **Kevin M. Storer**, Antony Rishin Mukkath Roy, Ravi Kuber, Stacy M. Branham. Blind Leading the Sighted: Drawing Design Insights from Blind Users towards More Productivity-oriented Voice Interfaces. *ACM Transactions on Accessible Computing (TACCESS)*, Volume 12, Issue 4, January 2020, Article 18, 35 pages.
[2 Year Impact Factor: 2.64] — [Download](#)

Conference Proceedings Articles¹

- [C.7] **Kevin M. Storer**, Stacy M. Branham. Deinstitutionalizing Independence: Discourses of Disability and Housing in Accessible Computing. In *Proceedings of the ACM SIGACCESS Conference on Accessible Computing (ASSETS '21)*, October 18-22, 2021, Virtual Event.
[29% acceptance rate] — [Download](#)
- [C.6] **Kevin M. Storer**, Harini Sampath, M. Alice Merrick. “It's Just Everything Outside of the IDE that's the Problem”: Information Seeking by Software Developers with Visual Impairments. In *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI '21)*, May 8–13, 2021, Yokohama, Japan.
[26.3% acceptance rate] — [Download](#) — [Presentation](#)
- [C.5] **Kevin M. Storer**, Tejinder K. Judge, Stacy M. Branham. “All in the Same Boat”: Tradeoffs of Voice Assistant Ownership for Mixed-Visual-Ability Families. In *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI '20)*, April 25-30, 2020, Honolulu, HI, USA.
[24% acceptance rate] — [Download](#) — [Presentation](#)
- [C.4] **Kevin M. Storer**, Stacy M. Branham. “That’s the Way Sighted People Do It”: What Blind Parents Can Teach Technology Designers About Co-Reading with Children. In *Proceedings of the ACM SIGCHI Conference on Designing Interactive Systems (DIS '19)*, June 23-28, 2019, San Diego, CA, USA.
[25% acceptance rate, **Honorable Mention for Best Paper (Top 2%)**] — [Download](#)
- [C.3] Fatema Akbar, Ayse Elvan Bayraktaroglu, Pradeep Buddharaju, Dennis Rodrigo Da Cunha Silva, Ge Gao, Ted Grover, Ricardo Gutierrez-Osuna, Nathan Cooper Jones, Gloria Mark, Ioannis Pavlidis, **Kevin Storer**, Zelun Wang, Amanveer Wesley, Shaila Zaman. Email Makes You Sweat: Examining Email Interruptions and Stress Using Thermal Imaging. In *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI '19)*, May 4-9, 2019, Glasgow, Scotland.
[23.8% acceptance rate] — [Download](#)
- [C.2] Josiah Hester, **Kevin Storer**, Jacob Sorber. Timely Execution on Intermittently Powered Batteryless Sensors. In *Proceedings of the ACM Conference on Embedded Network Sensor Systems (SenSys '17)*, November 5-8, 2017, Delft, The Netherlands.
[17.2% acceptance rate] — [Download](#)
- [C.1] Josiah Hester, Travis Peters, Tianlong Yun, Ronald Peterson, Joseph Skinner, Bhargav Golla, **Kevin Storer**, Steven Hearndon, Kevin Freeman, Sarah Lord, Ryan Halter, David Kotz, Jacob Sorber. Amulet: An Energy-Efficient, Multi-Application Wearable Platform. In *Proceedings of the ACM Conference on Embedded Network Sensor Systems (SenSys '16)*, November 14-16, 2016, Stanford, CA, USA.
[17.6% acceptance rate] — [Download](#)

¹ In my field, conferences are prestigious publication venues, where articles are rigorously peer-reviewed and archived.

Workshop Papers, Conference Posters, and Demonstrations (Lightly-Reviewed)

- [LR.7] **Kevin M. Storer.** A Deinstitutional Perspective on Domestic Accessibility: Three Tenets for Accessible Computing Research in Homes. *Human Computer Interaction Consortium (HCIC '21)*, June 21-24, 2021, Online Event.
- [LR.6] **Kevin M. Storer.** Social Interaction as Sensory Augmentation?. *Rethinking the Senses: A Workshop on Multisensory Embodied Experiences and Disability Interactions, ACM SIGCHI Conference on Human Factors in Computing Systems (CHI '21)*, May 8–13, 2021, Yokohama, Japan.
- [LR.5] **Kevin M. Storer**, Stacy M. Branham. Reframing Homes and Families in Accessibility. *Nothing About Us Without Us: Investigating the Role of Critical Disability Studies in HCI, ACM SIGCHI Conference on Human Factors in Computing Systems (CHI '20)* April 25-30, 2020, Honolulu, HI, USA.
- [LR.4] Shengjie Bi, Ellen Davernport, Jun Gong, Ronald Peterson, Joseph Skinner, **Kevin Storer**, Tao Wang, Kelly Caine, Ryan Halter, David Kotz, Kofi Odame, Jacob Sorber, Xing-Dong Yang. Poster: Auracle: A Wearable Device for Detecting and Monitoring Eating Behavior. In *Proceedings of the ACM Annual International Conference on Mobile Systems, Applications, and Services (MobiSys '17)*, June 19-23, 2017, Niagara Falls, NY, USA.
- [LR.3] Matthew Furlong, Josiah Hester, **Kevin Storer**, Jacob Sorber. Realistic Simulation for Tiny Batteryless Sensors. In *Proceedings of the International Workshop on Energy Harvesting and Energy-Neutral Sensing Systems (ENSys '16)*, November 14-16, 2016, Stanford, CA, USA.
- [LR.2] Josiah Hester, Travis Peters, Tianlong Yun, Ronald Peterson, Joseph Skinner, Bhargov Golla, **Kevin Storer**, Steven Hearndon, Kevin Freeman, Sarah Lord, Ryan Halter, David Kotz, Jacob Sorber. The Amulet Wearable Platform: Demo Abstract. In *Proceedings of the 14th ACM Conference on Embedded Network Sensor Systems (SenSys '16)*, November 14-16, 2016, Stanford, CA, USA.
- [LR.1] Josiah Hester, **Kevin Storer**, Lanny Sitanayah, Jacob Sorber. Towards A Language and Runtime for Intermittently-Powered Devices. *Workshop on Hilariously Low-Power Computing, ACM International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS '16)*, April 2-6, 2016, Atlanta, GA, USA.

GRANTS AND FELLOWSHIPS

- 2019 **\$5,000** — Bob and Barbara Kleist Endowed Graduate Fellowship (UC Irvine)
- 2017 **\$5,000** — Information & Computer Sciences Dean's Recruitment Award (UC Irvine)

TEACHING

TEACHING POSITIONS

- WQ'19 **Marginalized Digital Embodiments** — University of California, Irvine
Course: INF 299 || Instructor: Stacy Branham || Student Evaluations Not Elicited
Served as one of two organizers of a graduate-level, discussion-based course on interaction design for marginalized groups. Designed the course syllabus and led weekly discussions.
- SQ'18 **Interactive Technology** — University of California, Irvine
Course: INF 285 || Instructor: Don Patterson || Student Evaluations Not Elicited
Served as one of two teaching assistants for a course of 30+ Master's students, provided feedback on assignments, moderated discussions, and instructional programming sessions.
- WQ'18 **Project Management** — University of California, Irvine
Course: INF151 || Instructor: Alexander Cho || Student Evaluations (Mean): 8.77/9.00

Served as the teaching assistant for a course of 50+ Bachelor's students developed course materials, provided feedback on assignments, and held class lectures in the instructor's absence.

- FQ'17 **Project Management** — University of California, Irvine
Course: INF 151 || Instructor: Gloria Mark || Student Evaluations (Mean): 8.52/9.00
Served as the teaching assistant for a course of 120+ Bachelor's students, developed course materials, provided feedback on assignments, and held class lectures in the instructor's absence.
- FQ'15 **Computer Organization** — Clemson University
Course: CPSC 2310 || Instructor: Rose Lowe || Student Evaluations Not Elicited
Served as one of two teaching assistants for a course of 75+ students, held lab sessions three times weekly, where I taught students to program in assembly language.

GUEST LECTURES

- [GL.9] *"Pragmatism, Embodiment, and Experience."* — Fall 2018
INF295: Mobile Learning Technologies, UC Irvine. Taught by Kurt Squire.
- [GL.8] *"Agile Software Development."* — Winter 2018
INF151: IT Project Management, UC Irvine. Taught by Alex Cho.
- [GL.7] *"Time Management."* — Winter 2018
INF151: IT Project Management, UC Irvine. Taught by Alex Cho.
- [GL.6] *"Human Resource Management."* — Fall 2017
INF151: IT Project Management, UC Irvine. Taught by Gloria Mark.
- [GL.5] *"Teams and Conflict."* — Fall 2017
INF151: IT Project Management, UC Irvine. Taught by Gloria Mark.
- [GL.4] *"Developing Software for Error-Prone Devices."* — Fall 2016
CPSC4820: Embedded Systems, Clemson University. Taught by Jacob Sorber.
- [GL.3] *"Allocating and Managing Virtual Memory."* — Spring 2016
CPSC3220: Operating Systems, Clemson University. Taught by Jacob Sorber.
- [GL.2] *"Drag Performance and Gender Identity."* — Spring 2015
PSYC3070: Human Sexuality, Bowling Green State University. Taught by Robert Kirk.
- [GL.1] *"Drag Performance and Gender Identity."* — Spring 2014
PSYC3070: Human Sexuality, Bowling Green State University. Taught by Robert Kirk.

INVITED TALKS

- [IT.4] *"Supporting Blind-Parent/Child Reading through Deinstitutional Design Perspectives in Homes."*
Steckler Center for Responsible, Ethical, and Accessible Technology, Irvine, CA. 03/15/2021.
- [IT.3] *"Writing Accessible Technical Documentation."*
Google User Experience Research, Seattle, WA. 12/07/2020.
- [IT.2] *"Non-Visual Accessibility in Technical Information Seeking."*
Google User Experience Research, Seattle, WA. 09/25/2020.
- [IT.1] *"Understanding Voice Assistant Use in Mixed-Visual-Ability Families."*
Google User Experience Research, Mountain View, CA. 12/11/2019.

STUDENT MENTORSHIP

- 2021 **Hannah Bowman**: M.S. Human Factors, San Jose State || **Now**: UX Researcher, Google

- 2021 **Nandhana Sathish:** B.S. Informatics, UC Irvine || **Now:** Software Developer, Microsoft
- 2020-21 **Maya Gupta:** M.S. Informatics, UC Irvine || **Now:** UX Researcher, Atlassian
- 2020-21 **Julie Oh:** B.S. Informatics, UC Irvine || **Now:** Ph.D. Informatics, UC Irvine
- 2020-21 **Ethan Vu:** M.S. Informatics, UC Irvine || **Now:** Research Assistant, UC Irvine

SERVICE

ACADEMIC SERVICE

- 2022 **Reviewer,** ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW '22)
- 2021 **Student Volunteer,** ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '21)
- 2020 **Paper Session Co-Chair,** ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '20)
- 2020 **Papers Accessibility,** ACM Conference on Human Factors in Computing (CHI '20)
- 2020 **Reviewer,** ACM Conference on Human Factors in Computing (CHI '20)
- 2019 **Reviewer,** Mind, Culture, and Activity: An International Journal (Taylor & Francis)
- 2019 **Member,** SIGCHI Working Group on Promoting Accessibility to Support Inclusive Events (ACM)
- 2016 **Reviewer,** Information Processing in Sensor Networks, Shadow TPC (ACM/IEEE)

UNIVERSITY SERVICE

- 2021 **Member,** Accessibility Research Collective (Multi-Institutional Collaboration)
- 2021 **Member,** Steckler Center for Responsible, Ethical, and Accessible Technology (UC Irvine)
- 2019-21 **Prospective Student Outreach,** Graduate Student Recruitment (UC Irvine)

COMMUNITY SERVICE

- 2019 **Adult Literacy Instructor,** Orange County Public Library System
- 2019 **Adult Literacy Instructor,** City of Orange Public Library Foundation

PRESS COVERAGE

- 2020 **UCI News.** *[Building Tomorrow's AI: Smarter and Fairer.](#)* 10/01/2020.