

# Benjamin Xie

Assistant Professor of Computer Science

I design critical and equitable *human-data interactions* to foster learning opportunities and inform AI policy.

## Education

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- 2016 - 2022 **University of Washington (UW)**, Seattle, WA  
Ph.D. in Information Science  
Advisor: Amy J. Ko  
Thesis: *Stakeholders' Interpretations of Data for Equitable Computing Education*
- 2011 - 2016 **Massachusetts Institute of Technology (MIT)**, Cambridge, MA  
M.Eng., B.S. in Computer Science  
Advisor: Hal Abelson  
Thesis: *Progression of Computational Thinking Skills Demonstrated by App Inventor Users*

## Academic Appointments

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- 2025- **University of Denver (DU)**, Denver, CO  
*Assistant Professor - Computer Science*
- 2025- **Faculty Affiliate** - Scrivner Institute of Public Policy
- 2024-25 **Research Assistant Professor** - Computer Science
- 2024-2025 **Stanford University**, Stanford, CA  
*Postdoctoral Fellow* - HCI Group, Graduate School of Education (Mentor: Victor R. Lee)
- 2022-2024 *Embedded Ethics Postdoctoral Fellow* - Institute for Human-Centered AI, McCoy Family Center for Ethics in Society (Mentors: Mehran Sahami, Rob Reich, Anne Newman)
- 2021-2022 **University of Washington (UW)**, Seattle, WA  
*Postdoctoral Scholar* - Information School (Mentor: Amy J. Ko)
- 2020-2021 *Research Intern* - Code.org/NSF INTERN. (Mentor: Baker Franke)
- 2016-2021 *Graduate Research Assistant* - Information School (Mentor: Amy J. Ko)
- 2015-2016 **Massachusetts Institute of Technology (MIT)**, Cambridge, MA  
*Graduate Research Assistant* - MIT App Inventor (Mentor: Hal Abelson)
- 2014-2015 *Research Assistant* - MIT App Inventor (Mentor: Hal Abelson)
- 2012-2013 *Research Assistant* - Scheller Teacher Education Program (Mentors: Judy Perry, Lisa Stump)

## Grants

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- 2025-2027 **An Interdisciplinary Investigation of Interactions Between Human and AI Sexism through a Large-Scale Survey**  
University of Denver Faculty Research Fund (\$3,000)  
Role: PI. With Lindsey Feitz (Co-PI), Sunny Shretha (Senior Personnel)
- 2023-2025 **Addressing Environmental Data Inequities by Empowering Youth in Frontline Communities**  
Stanford Woods Institute Environmental Venture Projects (\$249,870)  
Role: Senior Personnel\*\*. With Victor R. Lee (PI), Nicole Ardoin (Co-PI), Jenny Suckale (Co-PI), Najiha Al-Asmar (Non-profit collaborator)
- 2023-2024 **Developing Novice Programmers' Capacity for Critical Reflection on Generative AI** (\$5,000)  
Stanford HAI & Accelerator for Learning: Generative AI for the Future of Learning. Role: PI.
- 2023 **Neighborhood Environmental Advocacy & Technology (NEAT) Fellowship** (\$9,000)  
Stanford Haas Center for Public Service Community-Based Research Fellowship  
Role: PI. With Najiha Al-Asmar (non-profit collaborator)
- 2022 **Start-Up Funds: Community-Engaged Research on AI** (\$15,000)  
Stanford McCoy Center for Ethics and Society & Inst. for Human-Centered AI. Role: PI.

- 2020 **Designing a Human-AI System for Equitable Student Feedback at Scale (\$5,000)**  
 Google Cloud Academic Research Grant  
 Role: Senior Personnel\*\*. With Amy J. Ko (PI)
- 2020 **Improving the Equity of CS Discoveries (\$35,056)**  
 NSF Non-Academic Research Internships for Graduate Students (INTERN)  
 Role: Graduate Student Intern\*\*. With Amy J. Ko (PI), Baker Franke (non-profit collaborator)

*\*\* Denotes that I facilitated the ideation and writing of the proposals, as well as the execution of the research. However, I was ineligible to be named a PI or Co-PI because I was a postdoc or graduate student.*

## Awards & Honors

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- 2025 **Certificate of Recognition, Sequoia Union High School School District Board of Trustees**  
 Awarded for contributions as advisor to student organization for environmental advocacy
- 2022 **ACM CSCW Award for Contribution to Diversity and Inclusion**  
 Awarded to 3.5% of accepted papers to recognize contributions to diversity & inclusion
- 2022 **UW Distinguished Dissertation Award, Departmental Nomination**
- 2021 **University of Washington Husky 100**  
 Awarded to 100 of UW's 55,000 students who make the most of their time at UW
- 2021 **UW Marcy Migdal Fund for Educational Equality, Honorable Mention**
- 2016 **National Science Foundation (NSF) Graduate Research Fellowship (\$138,000 over 3 yrs)**
- 2015 **MIT EECS - Google Research and Innovation Scholar (\$6,000)**

## Peer-Reviewed Publications

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*Unlike most of academia, premiere conferences in Human-Computer Interaction and Computing Education are considered high quality, selective venues for archival research. These conferences exceed many journals in their selectivity, visibility, and impact. Therefore, my peer-reviewed publications are mostly conference papers.*

Full texts of my publications are available at [benji.phd/papers](#). See who's citing me on [Google Scholar](#).

\* denotes equal contribution | ^ denotes mentored student

### Using Benchmarking Infrastructure to Evaluate LLM Performance on CS Concept Inventories: Challenges, Opportunities, and Critiques [\[PDF\]](#)

M. Ali^, P. Rao, Y. Mai, B. Xie (2024)

ACM ICER: International Computing Education Research Conference

*Explored feasibility of using automated benchmarking infrastructure to evaluate LLM performance on CS concept inventories.*

### Automated Benchmarking Infrastructure: Moving Toward Robust Investigations of Gen AI in Computing Education [\[PDF\]](#)

M. Ali^, B. Xie (2025)

ACM Inroads

*Advocated for the broader use of AI benchmarking infrastructure to evaluate for computing education.*

### Using Benchmarking Infrastructure to Evaluate LLM Performance on CS Concept Inventories: Challenges, Opportunities, and Critiques [\[PDF\]](#)

M. Ali^, P. Rao, Y. Mai, B. Xie (2024)

ACM ICER: International Computing Education Research Conference

*Explored feasibility of using automated benchmarking infrastructure to evaluate LLM performance on CS concept inventories.*

### From Consumers to Critical Users: Prompty, an AI Literacy Tool For High School Students [\[PDF\]](#)

D. V. Dennison, R. C. C. Garcia^, P. Sarin^, J. Wolf, C. Bywater, B. Xie, V. R. Lee (2024)

AAAI EAII: Symposium on Educational Advances in Artificial Intelligence

*Designed tool that scaffolded the prompting and output comparison of a large language model for high school language arts students.*

### Co-Designing AI Education Curriculum with Cross-Disciplinary High School Teachers [\[PDF\]](#)

B. Xie, P. Sarin^\*, J. Wolf^\*, R. C. C. Garcia^, I. Sieh, D. V. Dennison, A. Fuloria, C. Bywater, V. R. Lee (2024)

AAAI EAII: Symposium on Educational Advances in Artificial Intelligence

*Curricular co-design with high school teachers identified considerations for integrating AI education across disciplines.*

**Teaching Ethics in Computing Education: A Systematic Literature Review of ACM Computer Science Education Publications** [\[PDF\]](#)

N. Brown\*, B. Xie\*, E. Sarder, C. Fiesler, E. S. Wiese (2023)

ACM TOCE: Transactions on Computing Education

*Review of 40 years of research on ethics in computing education found broad conceptions of ethics, many pedagogical strategies, challenges with assessment, and lack of clearly applicable recommendations for practice.*

**Developing Novice Programmers' Self-Regulation Skills with Code Replays** [\[PDF\]](#)

B. Xie, J. O. Lim\*, P. K. D. Pham\*, M. Li, A. J. Ko (2023)

ACM ICER: International Computing Education Research Conference

*Designed tool that enabled replays of code writing process and found that its use improved novice programmers' self-regulation behaviors when writing code.*

**A Decade of Demographics in Computing Education Research: A Critical Review of Trends in Collection, Reporting, and Use** [\[PDF\]](#)

A. Oleson\*, B. Xie\*, J. Salac, J. Everson, F. M. Kivuva^, A. J. Ko (2022)

ACM ICER: International Computing Education Research Conference

*Critical content analysis of 510 computing education research papers to identify themes in the collection, reporting, and use of demographic data.*

**Surfacing Equity Issues in Large Computing Courses with Peer-Ranked, Demographically-Labeled Student Feedback** [\[PDF\]](#)

B. Xie, A. Oleson, J. Everson, A. J. Ko (2022)

PACMHCI: Proceedings of the ACM on Human-Computer Interaction (presented at ACM CSCW)

Award for contribution to Diversity & Inclusion (3.5% of accepted papers)

*Developed & evaluated tool that contextualizes student feedback for teaching teams to identify equity issues in large classes.*

**Domain Experts' Interpretations of Assessment Bias in a Scaled, Online Computer Science Curriculum** [\[PDF\]](#)

B. Xie, M. J. Davidson, B. Franke, E. McLeod, M. Li, and A. J. Ko (2021)

ACM L@S: Conference on Learning @ Scale

*Explored a new use of Differential Item Functioning (DIF) where domain experts (Code.org curriculum designers) interpreted data on potential test bias by gender and race.*

**The Effect of Informing Agency in Self-Directed Online Learning Environments** [\[PDF\]](#)

B. Xie, G. L. Nelson, H. Akkaraju^, W. Kwok^, A. J. Ko (2020)

ACM L@S: Conference on Learning @ Scale

*Designed and evaluated three variations of self-directed online learning tool to explore how informing and affording agency affected engagement and learning outcomes.*

**Investigating Novices' In Situ Reflections on Their Programming Process** [\[PDF\]](#)

D. Loksa, B. Xie, H. Kwik^, A. J. Ko (2020)

ACM SIGCSE: Technical Symposium on Computer Science Education

*Presented evidence that self-regulation use during programming varies, and that teaching self-regulation skills may require targeted instruction based on students' self-regulation and programming practices.*

**Towards validity for a formative assessment for language-specific program tracing skills** [\[PDF\]](#)

G. L. Nelson, B. Xie, A. D. Hu, A. J. Ko (2019)

ACM Koli Calling

*Developed formative assessment with Kane's validity framework and situated framework within computing education.*

**An Item Response Theory Evaluation of a Language-Independent CS1 Knowledge Assessment** [\[PDF\]](#)

B. Xie, M. J. Davidson, M. Li, A. J. Ko (2019)

ACM SIGCSE: Technical Symposium on Computer Science Education

*Evaluated SCS1 introductory CS concept inventory, using Item Response Theory to identify items that were problematic*

**A Theory of Instruction for Introductory Programming Skills** [\[PDF\]](#)

B. Xie, D. Loksa, G. L. Nelson, M. J. Davidson, D. Dong, H. Kwik^, A. H. Tan^, L. Hwa^, M. Li, A. J. Ko (2019)

CSE: Journal of Computer Science Education

*Proposed theory of instruction to teach four programming skills and demonstrated improved learning outcomes.*

**Experiences of Computer Science Transfer Students** [\[PDF\]](#)

H. Kwik^, B. Xie, A. J. Ko (2018)

ACM ICER: International Computing Education Research Conference

*Investigated social and academic experiences of computer science students who transferred to a 4 yr university.*

**An Explicit Strategy to Scaffold Novice Program Tracing** **B. Xie, G. L. Nelson, A. J. Ko (2018)**

ACM SIGCSE: Technical Symposium on Computer Science Education

*Described and evaluated a simple but powerful strategy to scaffold tracing of program execution. With <30 min of practice, novices in intro CS course had midterm grades 7% higher than a control group.***Comprehension First: Evaluating a Novel Pedagogy and Tutoring System for Program Tracing in CS1** **G. L. Nelson, B. Xie, A. J. Ko (2017)**

ACM ICER: International Computing Education Research Conference

*Contributed a new theory of what it means to know a programming language, instruction based on their theory, and a computer-based tutorial for teaching this knowledge. Found that the tutorial resulted in improved learning gains***Skill Progression in MIT App Inventor** **B. Xie, H. Abelson (2016)**

IEEE VL/HCC: Symposium on Visual Languages &amp; Human-Centric Computing

*Found that long-term users of App Inventor tend to expand breadth of programming knowledge (use new blocks) before depth (use blocks in more complex ways)***Measuring the Usability and Capability of App Inventor to Create Mobile Applications** **B. Xie, I. Shabir, H. Abelson (2015)**

PROMOTO: Workshop on Programming for Mobile and Touch

*Investigated the usability and realized capability of >5,000 App Inventor projects, finding that the order of App Inventor tutorials heavily influence the usability of App Inventor to implement particular functionalities*

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## Magazine Articles

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**Equity Spotlight: Benjamin Xie** **B. Xie (2025)**

SIGCSE Bulletin

*Interview spotlighting the literature review on ethics in computing education which I co-first authored.***Techno-optimism, school surveillance, and GoGuardian** **P. Sarin<sup>^</sup>, B. Xie (2024)**

Stanford Public Scholarship Collaborative

*Article on Parth's research on teachers' perspectives on educational surveillance technologies and implications for practice.***How Data Can Support Equity in Computing Education** **B. Xie (2020)**

ACM XRDS: ACM Crossroads Magazine

*Article describing techniques I am exploring in my dissertation to use data to support equity in computing education.***It Is Time for More Critical CS Education** **A. J. Ko, A. Oleson, M. Kirdani-Ryan, Y. Register, B. Xie, M. Tari, M. J. Davidson, S. Druga, D. Loksa (2020)**

ACM CACM: Communications of the ACM

*Position article calling for more critical lens to computer science education.***Learning and Education in HCI: A Reflection on the SIG at CHI 2019** **V. Pammer-Schindler, E. Harpstead, B. Xie, B. DiSalvo, A. Kharrufa, P. Slovak, A. Ogan, J. J. Williams, M. J. Lee (2020)**

ACM IX: ACM Interactions Magazine

*Follow-up report on our CHI 2019 SIG on learning, education, and HCI*

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## Workshop and Discussion Papers

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*Papers that contribute to workshops or foster discussions. These papers have been lightly reviewed or refereed.***Constructionist Approaches to Learning Artificial Intelligence/Machine Learning: Past, Present, and Future****L. Morales-Navarro, Y. Kafai, K. Kahn, R. Romeike, T. Michaeli, D. DiPaola, S. Ali, R. Williams, C. Breazeal, F. E. V. Castro, K. Desportes, G. Stager, V. Kumar, H. Bodon, M. Worsley, V. R. Lee, P. Sarin, B. Xie, J. Wolf, I. Sieh, D. Varuvel Dennison, R. Garcia and C. Solomon (2023)**

FabLearn / Constructionism

*Symposium on how teachers and learners collaborated to develop AI/ML powered projects that integrate constructionism*

**CRAFT-work: An Integrative Co-Design Approach for Designing High School AI Literacy Resources** V. R. Lee, P. Sarin, J. Wolf, **B. Xie** (2023)

CHI Workshop on AI Literacy: Finding Common Threads between Education, Design, Policy, and Explainability

*Described process of co-designing multi-disciplinary and modular AI literacy resources with high school teachers***Centering Environmental Justice in Computing Education** **B. Xie**, G. L. Nelson, F. E. V. Castro, N. Lytle, B. Bettin (2023)

ACM SIGCSE: Technical Symposium on Computer Science Education

*Fostered Birds of a Feather discussion to connect computing education and environmental justice***Learning, Education, and HCI** **B. Xie**, E. Harpstead, B. DiSalvo, P. Slovak, A. Kharrufa, M. J. Lee, V. Pammer-Schindler, A. Ogan, J. J. Williams (2019)

ACM CHI Extended Abstracts: Conference on Human Factors in Computing Systems

*Proposed special interest group to foster the intersection of HCI and learning sciences.*

## Technical Reports

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**Exploring the Impact of AI on Black Americans: Considerations for the Congressional Black Caucus's Policy Initiatives** 

N. D. T. Djanegara, D. Zhang, H. B. U. Zaman, C. Meinhardt, G. Watkins, E. Nwankwo, R. Wald, R. Kosoglu, S. Koyejo, M. Elam (2024)

Stanford Institute for Human-Centered Artificial Intelligence (HAI)

*Rewrote the section on education to consider new biases and opportunities associated with generative AI advancements.***Theories of Programming (Dagstuhl Seminar 22231)** **T. D. LaToza, A. J. Ko, D. C. Shepherd, D. Sjøberg, B. Xie** (2023)

Dagstuhl Reports

*Summary of research seminar to sketch new theories of programming and consider the role of theories in programming.*

## Invited Talks

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**Testimony on Colorado HB 25-1212: Public Safety Protections Artificial Intelligence**S. Wiser, J. Bliss, **B. Xie**, N. Krishnaswamy, J. Gibson, N. Calvin (2025)

Colorado House Judiciary Committee

*Provided expert testimony in support of bill to enhance whistleblower protections for employees of AI companies***Designing for Critical & Equitable Human-Data Interactions****B. Xie** (2025)

Stanford Human-Computer Interaction Lunch

*Shared my academic job talk and provided guidance on preparing an effective academic job talk***All Hands on Deck: Exploring Youth Involvement in Climate Action Initiatives**M. Basnage, **B. Xie**, A. Lee, G. Finkelstein, A. Cardenas (2024)

San Mateo County Climate Summit

*Presented my work on building youth capacity to work with data for environmental advocacy***AI as Unreliable Narrators in (CS) Education****B. Xie** (2024)

Kapor Foundation

*Presented on latest research trends related to equitable teaching about and with AI in K-12.***Understanding LLM Performance on CS Concept Inventories****B. Xie** (2023)

Stanford Accelerator for Learning GenAI+Learning Grantee Meeting

*Presented ongoing research on benchmarking CS concept inventories against 80+ large language models.***AI and Education Equity in Higher Education**E. Walker, K. Andrews, F. Castro, J. Solyst, T. Tanskley, **B. Xie**, L. Yan (2023)

ELAI Global: Conference on Empowering Learners for the Age of AI

*Panel of early career scholars on equity and social justice in AI and educational technology.***Embedded Ethics at Stanford: Reflections and Future Directions****B. Xie**, A. Newman, A. Karthik, W. G. Ray III (2023)

Stanford EdTech Ethics Workshop

*Described Stanford's Embedded Ethics program and presented teaching demonstration on ethics in an algorithms class.*

**Ethical Considerations in Working with Communities and the Public**

B. Xie (2023)

Stanford University Research, Action, and Impact through Strategic Engagement (RAISE) Doctoral Fellowship  
*Presented instructional workshop to graduate fellows conducting research with communities.***Designing for Equitable, Ethical, and Community-Centric Computing Education**

B. Xie (2022)

University of Pittsburgh School of Computing and Information Technology for Social Change series  
*Presented research in designing sociotechnical systems that foster critical discourse with and about data.***Roles of Student Feedback for Equity in Large Computing Courses**

B. Xie (2022)

University of Washington Information School Research Symposium

*Presented research on contextualized student feedback that was published to PACMHCI/CSCW 2022.***Designing Tech for Equity in Education**

B. Xie (2022)

University of Washington Impact++ Panel on Education &amp; Tech

*Presented a framework for designing and developing technology for equitable learning.***Domain Experts' Interpretations of Assessment Bias in a Scaled, Online Computer Science Curriculum**

B. Xie (2021)

University of Washington DUB Seminar

*Presented my work done in collaboration with Code.org and published to Learning @ Scale 2021 to UW HCI community.***Equitable Learning Analytics - Why should everyone care?**

R. Ferguson, D. Gasevic, L. Lawrence, B. Xie (2021)

ACM LAK: International Conference on Learning Analytics &amp; Knowledge

*Panel to bring awareness to gaps in diversity, equity, and inclusion practices for learning analytics community.*

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**Teaching**

Instructor	<b>Understanding Artificial Intelligence</b> , DU COMP 3490. Wi '26
Instructor	<b>Seminar on Identity, Demographic Data, and Computing Education</b> , UW INFO 499. Wi '22
	<b>Introduction to Data Science</b> , UW INFO 370. Fa '17
Ethics Teaching Fellow	<b>Programming Methodologies</b> , Stanford CS 106A. Wi '23, Sp '23, Fa '23
	<b>Programming Abstractions</b> , Stanford CS 106B. Sp '23, Fa '23, Wi '24, Sp '24
	<b>Operating Systems Principles</b> , Stanford CS 111. Wi '23, Sp '23, Fa '23, Wi '24, Sp '24
	<b>Design &amp; Analysis of Algorithms</b> , Stanford CS 161. Fa '22
	<b>Human-Centered Product Management</b> , Stanford CS 177. Fa '22
	<b>Natural Language Processing with Deep Learning</b> , Stanford CS 224N. Wi '24, Sp '24
	<b>Social Computing</b> , Stanford CS 278. Sp '24
Teaching Assistant	<b>Advanced Methods in Data Science</b> , UW INFO 371. Wi '21
	<b>Technical Foundations of Informatics</b> , UW INFO 201. Fa '19
	<b>Cooperative Software Design</b> , UW INFO 461. Sp '17
	<b>Introduction to Computer Science</b> , Prospect Hill Academy. Fa '14, Sp '15
Guest Lecturer	<b>Intro to Quantitative Methods in HCI</b> . Human Computer Interaction, DU COMP 4100, Fa '25.
	<b>An Overview of Ethics in Computing &amp; Design</b> . Ethics and Activism in Tech and Design, UC Santa Cruz HCI 220. Wi '25.
	<b>Gradient Descent</b> . In Advanced Methods in Data Science, UW INFO 371. Wi '21.
	<b>Exploratory Data Analysis</b> . In Applied Regression and ANOVA, UW STAT 423. Wi '19.

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**Students Advised**

2025- Demi Jaiyeola (Ph.D. Student, University of Denver CS)

2025- Sunny Shrestha (Ph.D. Student, University of Denver CS)

Prior to starting as faculty, I mentored 22 students (two PhDs, seven Master's, 13 undergrad). This included 12 women, two non-binary, five Black, Latinx, and Pacific Islander students, seven international, and one transfer student. Fourteen co-authored ten papers with me, with five first-authoring papers. After graduating, six went on into graduate school (3 PhD, 3 Master's), two into nonprofit work, two into research, and six into industry.

## Research Development

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*Convenings and communities I have participated in to develop my research experience.*

- 2023 Digital Promise & Gates Foundation Convening on *Designing Emerging Learning Technologies*
- 2023 NYU & Spencer Foundation Conference on *Innovating a New Generation of Learning Analytics for Educational Equity*
- 2022 Center for Integrative Research in Computing & Learning Sciences (CIRCLS) Emerging Scholar
- 2022 Dagstuhl Seminar on *Theories of Programming*
- 2017 CMU Simon Initiative LearnLab Summer School
- 2016 SOLAR Learning Analytics Summer Institute (LASI)

## Professional Experience

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- 2015 **NovoEd**, Software Engineering Intern
- 2014 **AppNexus**, Software Engineering Intern, API Team
- 2013 **eBay**, Software Engineering Intern, Marketplace Team

## Service

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Program Committee	<b>ACM ICER</b> : Conference on International Computing Education Research (2023-25)
Associate Chair	<b>ACM CHI</b> : Conference on Human Factors in Computing Systems (2022, 23, 25)
Advisory Committee	<b>Kapor Foundation Responsible AI &amp; Tech Justice</b> (2024-), <b>JCHE</b> : Journal of Computing in Higher Education Special Issue on AI & Education Equity in Higher Ed (2023-24)
Grant Reviewer	<b>National Academies of Sciences, Engineering, and Medicine's Gulf Research Program</b> (2025), <b>National Science Foundation CISE, EDU</b> (2024), <b>Stanford Accelerator for Learning &amp; Inst. for Human-Centered Artificial Intelligence</b> : Learning through Creation with Generative AI (2024)
Session Chair	<b>ACM ICER</b> (2024), <b>ACM SIGCSE</b> : Technical Symposium on Computer Science Education (2023)
Paper Reviewer	<b>ACM TOCE</b> (2019, 22, 23, 24, 25), <b>EduCHI: Symposium on HCI Education</b> (2025), <b>International Journal of Child-Computer Interaction</b> (2024), <b>ACM CSCW</b> (2024), <b>Journal of Computer Science Education</b> (2021, 24), <b>ACM CHI</b> (2018, 20, 21, 24), <b>ACM FAccT</b> (2023), <b>ACM COMPASS</b> (2021), <b>ICIS</b> (2020), <b>ACM UIST</b> (2019), <b>ACM SIGCSE</b> (2018, 19), <b>Journal of Information and Learning Sciences</b> (2018)
Organizer	<b>Stanford Embedded Ethics Conference</b> (2023)
Committee Member	<b>UW Information School HCI Faculty Search Committee</b> (2020-21)
Mentor	<b>Technology Access Foundation</b> (TAF) Academy STEM Expo (2016-2019) <b>Google Summer of Code</b> (on behalf of MIT Media Lab, 2016)