Elena Leah Glassman

Assistant Professor of Computer Science2019-presentHarvard John A. Paulson School of Engineering & Applied Sciences2018-2022Stanley A. Marks & William H. Marks Professor2018-2022Harvard Radcliffe Institute for Advanced Study2018-2022

Office Science and Engineering Center, Rm 2.108, Allston, MA 02134 *Email* glassman@seas.harvard.edu *Lab* glassmanlab.seas.harvard.edu (Recently renamed *The Variation Lab*)

Areas of specialization

Human-Computer Interaction • Programming Systems/Software• Human-AI Interaction

Education

EECS Postdoctoral Scholar	Berkeley Institute of Design, EECS Department, UC Berkeley
Advised by Björn Hartmann, As	ssociate Professor of EECS
Graduate student	User Interface Design Group, EECS Department, CSAIL, MIT
PhD Thesis: Clustering and Vi	sualizing Solution Variation in Massive Programming Classes
Advised by Robert Miller, Distin	guished Professor of CS
Graduate student	Robot Locomotion Group, EECS Department, CSAIL, MIT
M.Eng. Thesis: A quadratic regu	lator-based heuristic for rapidly exploring state space
Advised by Russ Tedrake, Profes	ssor of EECS
Visiting researcher	Biomimetics & Dexterous Manipulation Lab, Stanford University
Undergraduate researcher	Robot Locomotion Group, CSAIL, MIT
Undergraduate researcher	Networks & Mobile Systems, CSAIL, MIT
Volunteer research assistant	EEG Lab, Psychology Department, Princeton University
	EECS Postdoctoral Scholar Advised by Björn Hartmann, As Graduate student PhD Thesis: <i>Clustering and Vi</i> . Advised by Robert Miller, Distin Graduate student M.Eng. Thesis: <i>A quadratic regu</i> Advised by Russ Tedrake, Profes Visiting researcher Undergraduate researcher Undergraduate researcher Volunteer research assistant

Research Internships

User experience research intern	Search, Google
Advised by Dan Russell, Senior Research Scientist	
Design research intern	Microsoft Research
Advised by M.R. Morris, Principal Researcher, and A. Monroy-Hernández, R	Researcher
	User experience research intern Advised by Dan Russell, Senior Research Scientist Design research intern Advised by M.R. Morris, Principal Researcher, and A. Monroy-Hernández, F

Selected fellowships and honors

2024	Kavli Fellow, National Academy of Sciences
2023-2025	Sloan Fellowship
2018-2022	Radcliffe Fellowship at the Radcliffe Institute for Advanced Study
2017-2018	Moore/Sloan Data Science Fellowship at the Berkeley Institute for Data Science (BIDS)
2014-2015	MIT Amar Bose Teaching Fellowship, for developing innovative tools for teaching CS at scale
2011-2014	NSF Graduate Research Fellow (NSF GRFP)
2008-2011	National Defense Science and Engineering Graduate Fellow (NDSEG)
2004	IEEE President's Scholarship (\$10,000)

2003 Intel Foundation Young Scientist Award (\$50,000), awarded to the top 3 individual projects at the Intel International Science & Engineering Fair

All Publications

JOURNAL ARTICLES AND REFEREED CONFERENCE PAPERS

Top-tier ACM and AAAI conferences in human-computer interaction and adjacent fields, e.g., CHI, CSCW, UIST, IUI, HRI, and ICWSM, are highly selective venues for archival papers only, comparable to many IEEE journals in their selectivity, visibility, and impact.

(The ACM is the largest professional society for computer scientists, and AAAI stands for the Association for the Advancement of Artificial Intelligence.)

Authors are typically ordered such that leading students are listed from largest to smallest contribution from the left. Supervising faculty and postdocs are typically ordered from the right. The last author is the primary sponsor and supervisor.

* indicates equal contribution.

† indicates a PhD advisee, Master's advisee, or predoctoral research assistant.

- ‡ indicates a Harvard undergraduate student I supervised.
- || indicates a student who took or TF'd my graduate research seminar, CS279R.
- \S indicates a current or former postdoctoral scholar.
- *†† indicates a current or former visiting scholar.*
- *‡‡ indicates NSF grant co-PI.*

** indicates a PhD student for whom I am or have been a doctoral thesis committee member.

2024 ACM CHI: Conference on Human Factors in Computing Systems

Flagship HCI conference, 26.4% acceptance rate (33.9% for Late Breaking Work or LBW).

C35	Z Gu†, I Arawjo§, K Li∥, JK Kummerfeld††, EL Glassman		
	An AI-Resilient Text Rendering Technique for Reading and Skimming Documents		
	Provisional patent filed		

- C34KI Gero§, C Swoopes†, Z Gu†, JK Kummerfeld††, EL Glassman
Supporting Sensemaking of Large Language Model Outputs at Scale
- C33 I Arawjo§, C Swoopes†, P Vaithilingam†, M Wattenberg, EL Glassman ChainForge: A Visual Toolkit for Prompt Engineering and LLM Hypothesis Testing
- C32 P Vaithilingam[†], EL Glassman, JP Inala, C Wang DynaVis: Dynamically Synthesized UI Widgets for Visualization Editing (Microsoft Internship Project)
- C31 LBW Z Gu[†], O Raymond, N Al Madi^{††}, EL Glassman Why Do Skimmers Perform Better with Grammar-Preserving Text Saliency Modulation (GP-TSM)? Evidence from an Eye Tracking Study

2023 ACM CHI: Conference on Human Factors in Computing Systems

Similar acceptance rates to 2024 CHI conference above, i.e., typically 20-25%.

C30 SA Gebreegziabher, Z Zhang, X Tang, Y Meng, EL Glassman, TJ Li PaTAT: Human-AI Collaborative Qualitative Coding with Explainable Interactive Rule Synthesis Cited 20 times since May 2023

C29 LBW	H Heuer††, EL Glassman Accessible Text Tools: Where They Are Needed ぐ What They Should Look Like
	2023 ACM TOCHI: Transactions on Computer-Human Interaction
	Accepted papers are guaranteed a presentation at the authors' pick of several top-tier ACM HCI conferences.
J4	N Singh* , G Bernal* , D Savchenko* , EL Glassman Where to Hide a Stolen Elephant: Leaps in Creative Writing with Multimodal Machine Intelligence CS279R course final project, iterated on after the semester ended Cited 74 times since pre-release in 2022
J3	H Heuer††, EL Glassman Reliability Criteria for News Websites
	2023 Other Peer-Reviewed Conference Papers
	Acceptance rates at these conferences are typically 30-40%.
C28	P Vaithilingam [†] , EL Glassman , P Groenwegen, S Gulwani, AZ Henley, R Malpani, D Pugh, A Radhakrishna, G Soares, J Wang, A Yim Towards More Effective AI-Assisted Programming: A Systematic Design Exploration to Improve Visual Studio Intelli-Code's User Experience IEEE/ACM International Conference on Software Engineering: Software Engineering in Practice (ICSE-SEIP) (Microsoft Internship Project)
C27	H Heuer††, EL Glassman Accessible Text Tools for People with Cognitive Impairments and Non-Native Readers: Challenges and Opportunities <i>Mensch und Computer</i>
	2022 ACM UIST : User Interface Software & Technology
	Typically 20-25% acceptance rate.
C26	L Yan†, M Kim‡‡, B Hartmann‡‡, T Zhang§, EL Glassman Concept-Annotated Examples for Library Comparison
	2022 ACM/IEEE HRI: International Conference on Human-Robot Interaction
	Typically 20-25% acceptance rate.
C25	S Booth**, S Sharma , S Chung, J Shah, EL Glassman Revisiting Human-Robot Teaching and Learning Through the Lens of Human Concept Learning Theory
	2022 ACM CHI: Conference on Human Factors in Computing Systems
C24	H Heuer††, EL Glassman A Comparative Evaluation of Interventions Against Misinformation: Augmenting the WHO Check- list

C23 LBW	P Vaithilingam [†] , T Zhang [§] , EL Glassman Expectation vs. Experience: Evaluating the Usability of Code Generation Tools Powered by Large Language Models Cited 299 times since May 2022
	2022 AAAI ICWSM: International Conference on Web and Social Media
	Approximately 20% acceptance rate.
C22	Z Epstein* , N Foppiani* , S Hilgard* , S Sharma* , EL Glassman , D Rand Do explanations increase the effectiveness of AI-crowd generated fake news warnings? <i>CS279R course final project, iterated on after the semester ended</i>
	2021 ACM UIST : User Interface Software & Technology
C21	J Hu**, P Vaithilingam†, S Chong, M Seltzer, EL Glassman ASSUAGE: Assembly Synthesis Using A Guided Exploration
	2021 CACM: Communications of the ACM
	Flagship magazine of the ACM.
M1	S Chasins, EL Glassman , J Sunshine PL and HCI: Better Together Vol. 64, Issue 8.
	2021 ACM CHI: Conference on Human Factors in Computing Systems
C20	Best of CHI Honorable Mention (top 5%) A Ross, N Chen‡, E Zhao Hang‡, EL Glassman , F Doshi-Velez Evaluating the Interpretability of Generative Models by Interactive Reconstruction
C19	Best of CHI Honorable Mention (top 5%) L Yan†, EL Glassman , T Zhang§ Visualizing Examples of Deep Neural Networks at Scale
C18	T Zhang§, Z Chen, Y Zhu, P Vaithilingam†, X Wang, EL Glassman Interpretable Program Synthesis
	2020 ACM UIST : User Interface Software & Technology
C17	T Zhang§, L Lowmanstone‡, X Wang, EL Glassman Interactive Program Synthesis by Augmented Examples
	2020 ACM CHI: Conference on Human Factors in Computing Systems
C16	T Zhang§, B Hartmann‡‡, M Kim‡‡, EL Glassman Enabling Data-Driven API Design with Community Usage Data: A Need-Finding Study

2020 ACM IUI: International Conference on Intelligent User Interfaces (IUI)

23.4% acceptance rate.

C15	Best Paper Award Z Bucinca [*] , P Lin [*] , K Gajos, EL Glassman Proxy Tasks and Subjective Measures Can Be Misleading in Evaluating XAI Systems ACM Intelligent User Interfaces Cited 217 times since March 2020
	2020 Other Peer-Reviewed Conference Papers
2020 FSE C14	C Barnaby, K Sen, T Zhang§, EL Glassman , S Chandra Exempla Gratis (E.G.): Code Examples for Free ACM Joint European Software Engineering Conference & Symposium on the Foundations of Software Engineering (Industry Track) Collaboration with Meta Engineers, designing an internal developer support tool
	2019
2019 VL/HCC C13	J Cambronero, J Shen, J Cito, EL Glassman , M Rinard Characterizing developer use of automatically generated patches <i>IEEE Symposium on Visual Languages and Human-Centric Computing</i> 31-33% acceptance rate.
	Prior to starting faculty position
2018 CHI C12	EL Glassman [*] , T Zhang [*] , B Hartmann, M Kim Visualizing API Usage Examples at Scale ACM Conference on Human Factors in Computing Systems 25.8% acceptance rate. Cited 56 times
2018 CHI C11	Best of CHI Honorable Mention (top 5%) A Head, EL Glassman , B Hartmann, M Hearst Interactive Extraction of Examples from Existing Code ACM Conference on Human Factors in Computing Systems 25.8% acceptance rate.
2017 L@S C10	A Head [*] , EL Glassman [*] , G Soares [*] , R Suzuki, L Figueredo, L D'Antoni, B Hartmann Writing Reusable Code Feedback at Scale with Mixed-Initiative Program Synthesis ACM Learning at Scale 13% acceptance rate. Cited 136 times
2017 VL/HCC C9	R Suzuki, G Soares, A Head, EL Glassman , R Reis, M Mongiovi, L D'Antoni, B Hartmann TraceDiff: Debugging Unexpected Code Behavior Using Trace Divergences <i>IEEE Symposium on Visual Languages and Human-Centric Computing</i> 29% acceptance rate.
2016 CSCW C8	EL Glassman , A Lin, C Cai, R Miller Learnersourcing Personalized Hints <i>ACM Computer-Supported Cooperative Work and Social Computing</i> 25% acceptance rate.

2016 ASIST C7	EL Glassman, D Russell DocMatrix: Self-Teaching from Multiple Sources ASIS&T Annual Meeting 40% acceptance rate.
2015 UIST C6	EL Glassman, L Fischer, J Scott, R Miller Foobaz: Variable Name Feedback for Student Code at Scale ACM Symposium on User Interface Software & Technology 23.6% acceptance rate.
2015 CHI C5	Best of CHI Honorable Mention (top 5%) EL Glassman , J Kim, A Monroy-Hernández, MR Morris Mudslide: A Spatially Anchored Census of Student Confusion for Online Lecture Videos <i>ACM Conference on Human Factors in Computing Systems</i> 23% acceptance rate.
2015 CHI C4	J Kim, EL Glassman , A Monroy-Hernández, MR Morris RIMES: Embedding Interactive Multimedia Exercises in Lecture Videos ACM Conference on Human Factors in Computing Systems 23% acceptance rate.
2015 TOCHI J2	EL Glassman , J Scott, R Singh, P Guo, RC Miller OverCode: visualizing variation in student solutions to programming problems at scale <i>ACM Transactions on Computer-Human Interaction</i> , 22 (2), April 2015. Cited 196 times
2013 ICER C3	EL Glassman , N Gulley, RC Miller Toward Facilitating Assistance to Students Attempting Engineering Design Problems <i>ACM International Computing Education Research</i> 33% acceptance rate.
2012 ICRA C2	EL Glassman , A Desbiens, M Tobenkin, M Cutkosky, R Tedrake Region of attraction estimation for a perching aircraft: A Lyapunov method exploiting barrier cer- tificates <i>IEEE International Conference on Robotics and Automation</i> 40% acceptance rate.
2010 ICRA C1	EL Glassman , R Tedrake A quadratic regulator-based heuristic for rapidly exploring state space IEEE International Conference on Robotics and Automation
2005 TBME J1	EL Glassman A wavelet-like filter based on neuron action potentials for analysis of human scalp electroen- cephalographs <i>IEEE Transactions on Biomedical Engineering</i> 52 (11), 1851-1862, Nov. 2005.
	Technology Reports
2024 arXiv T8	P Vaithilingam [†] , I Arawjo [§] , EL Glassman Imagining a Future of Designing with AI: Dynamic Grounding, Constructive Negotiation, and Sus- tainable Motivation
2024 arXiv T7	A Cai†, I Arawjo§, EL Glassman Antagonistic AI
2023 arXiv T6	EL Glassman

	Designing Interfaces for Human-Computer Communication: An On-Going Collection of Considerations
2023 arXiv T6	Y Pu, S Vaduguru, P Vaithilingam†, EL Glassman , D Fried Amortizing Pragmatic Program Synthesis with Rankings
2023 arXiv T5	P Vaithilingam†, Y Pu, EL Glassman The Usability of Pragmatic Communication in Regular Expression Synthesis
2023 arXiv T4	A Cai∥, C Ardayfio‡, AP Nguyen‡, T Lin**, EL Glassman AtomXR: Streamlined XR Prototyping with Natural Language and Immersive Physical Interaction
2023 arXiv T 3	J Zhou, EL Glassman , DS Weld An Interactive UI to Support Sensemaking over Collections of Parallel Texts Master's Thesis at University of Washington CS that I unofficially co-advised
2022 arXiv T2	S Ali , S Upadhyay , G Hiranandani, EL Glassman , O Koyejo Metric Elicitation; Moving from Theory to Practice <i>CS279R course final project, iterated on after the semester ended</i>
2015 CSAIL T1	B Kim, EL Glassman , B Johnson, J Shah iBCM: Interactive Bayesian Case Model Empowering Humans via Intuitive Interaction MIT CSAIL TR-2015-010, April 2015.
	Posters, demos, and workshop papers
2024 NAS W21	EL Glassman AI-Resilient Interfaces and the Value of Variation U.S. Kavli Frontiers of Science National Academy of Sciences
2023 UIST W20	I Arawjo§, P Vaithilingam [†] , M Wattenberg, EL Glassman ChainForge: An open-source visual programming environment for prompt engineering Poster @ ACM Symposium on User Interface Software and Technology (UIST)
2023 PLATEAU W19	T Holloway [†] , C Swoopes [†] , I Arawjo [§] , H Peleg, EL Glassman Reverse Sketching Workshop on Evaluation and Usability of Programming Languages and Tools
2022 NeurIPS W18	KI Gero§, JK Kummerfeld††, EL Glassman Sensemaking Interfaces for Human Evaluation of Language Model Outputs Human Evaluation of Generative Models Workshop @ NeurIPS
2022 ACL W17	N Singh* , G Bernal* , D Savchenko* , EL Glassman A Selective Summary of Where to Hide a Stolen Elephant: Leaps in Creative Writing with Multi- modal Machine Intelligence Workshop on Intelligent and Interactive Writing Assistants (In2Writing 2022) @ ACL CS279R course final project, iterated on after the semester ended
2021 VIS W16	Honorable Mention Award T Zhang [§] , TH McCoy Jr., RH Perlis, F Doshi-Velez, EL Glassman Interactive Cohort Analysis and Hypothesis Discovery by Exploring Temporal Patterns in Population- Level Health Records 12th Workshop on Visual Analytics in Healthcare (VAHC) @ IEEE VIS
2021 NeurIPS W15	S Bridgers, EL Glassman , L Schulz, T Ullman Loopholes: a Window into Value Alignment and the Learning of Meaning Meaning in Context: Pragmatic Communication in Humans and Machines Workshop @ NeurIPS

2020 C+J W14	EL Glassman , Janet Sung [†] , Katherine Qian [‡] , Yuri Vishnevsky, Amy Zhang Triangulating the News: Visualizing Commonality and Variation Across Many News Stories on the Same Event <i>Computation + Journalism Symposium</i>
2019 PLATEAU W13	Rebecca Hao [‡] , EL Glassman "Approaching polyglot programming: what can we learn from bilingualism studies?" Workshop on Evaluation and Usability of Programming Languages and Tools <i>Co-located with ACM User Interface Software and Technology</i>
2017 KDD W12	S Tan, F Doshi-Velez, J Quiroz, EL Glassman "Clustering LaTeX Solutions to Machine Learning Assignments for Rapid Assessment" Machine Learning for Education Workshop <i>ACM Conference on Knowledge Discovery and Data Mining</i>
2017 CHI EA W11	R Suzuki, G Soares, EL Glassman , A Head, L D'Antoni, B Hartmann "Exploring the Design Space of Automatically Synthesized Hints for Introductory Programming Assignments" <i>CHI EA '17: Proceedings of the 2017 CHI Conference Extended Abstracts on Human Factors in Com-</i> <i>puting Systems</i>
2017 L@S W10	A Ju, EL Glassman , A Fox "Teamscope: Scalable Team Evaluation via Automated Metric Mining for Communication, Organization, Execution, and Evolution" <i>ACM Learning at Scale Conference</i>
2016 ICML W9	EL Glassman "Learning Latent Student Design Decisions in Python Programming Classes" Workshop on Machine Learning for Digital Education and Assessment Systems <i>International Conference on Machine Learning</i>
2016 NEML W8	EL Glassman "Learning Latent Student Design Decisions in Massive Python Programming Classes" New England Machine Learning Day
2016 CSCW W7	EL Glassman , R Miller "Leveraging Learners for Teaching Programming and Hardware Design at Scale" <i>ACM Computer-Supported Cooperative Work and Social Computing</i>
2016 CSCW W6	EL Glassman , B Kim, J Shah "Scaling Up Qualitative Data Analysis With Interfaces Powered by Interpretable Machine Learning" Human-Centered Data Science Workshop ACM Computer-Supported Cooperative Work and Social Computing
2015 L@S W5	EL Glassman , C Terman, R Miller "Learner-Sourcing in an Engineering Class at Scale" <i>ACM Learning at Scale Conference</i>
2014 UIST	EL Glassman W4 "Interacting with Massive Numbers of Student Solutions" ACM Symposium on User Interface Software & Technology
2014 L@S W3	EL Glassman , R Singh, R Miller "Feature Engineering for Clustering Student Solutions" ACM Learning at Scale Conference

2009 NIPS W2	EL Glassman "A quadratic regulator-based heuristic for rapidly exploring state space" Women in Machine Learning Workshop (WIML) <i>Neural Information Processing Systems</i>	
2006 EMBS W1	EL Glassman , J Guttag "Reducing the number of channels for an ambulatory patient-specific EEG-based ep detector by applying recursive feature elimination" <i>IEEE Engineering in Medicine and Biology Society</i>	pileptic seizure
	Book Chapters	
2016	JJ Williams, J Kim, EL Glassman , A Rafferty, W Lasecki "Making Static Lessons Adaptive through Crowdsourcing & Machine Learning" <i>Design Recommendations for Intelligent Tutoring Systems: Domain Modeling</i> Vol. 4, US Army Research Laboratory, July 2016.	
	Funding	
	NSF grants to Harvard	
2021-25	Collaborative Research: FMitF: Track I: Usable Synthesis-based End-User Programmer Interaction Modalities Co-PI with Xinvu Wang (UMich CSE)	ning with Rich \$350.000
2021-25	HCC: Medium: Improving Human-AI Collaboration on Decision-Making Tasks Co-PI with Krzysztof Gajos (Harvard CS), Finale Doshi-Velez (Harvard CS)	\$1,200,000
2021-24	FAI: Foundations of Fair AI in Medicine: Ensuring the Fair Use of Patient Attribute <i>Co-PI with Flavio du Pin Calmon (Harvard CS), Berk Ustun (UCSD)</i>	s \$714,000
2020-24	Collaborative Research: CHS: Medium: Code demography: Addressing information for programming interface users and designers <i>Lead PI with Bjoern Hartmman (UC Berkeley EECS), Miryung Kim (UCLA CS)</i>	needs at scale \$200,000
2021-23	Collaborative Research: Loopholes as a window into the learning of meaning <i>Co-PI with Tomer Ullman (Harvard Psychology)</i>	\$372,241
2020-23	Robust Intelligence (RI): Small: Human Validation in Batch Reinforcement Learning <i>Co-PI with Finale Doshi-Velez (Harvard CS)</i>	
2019-22	PI, WORKSHOP: Student Innovation Challenge at User Interface Software and Tech	nnology 2019
	Industry	
2023-24 2019-2023	Amazon Research Award\$70,000 +\$20,000Facebook/Meta\$70,000 +\$20,000	in AWS credit \$150,000
	Harvard	
2021	Harvard Data Science Initiative Trust in Science Award	\$30,000
	Foundations	
2023	Sloan Foundation Fellowship	\$75,000

Service

	Founding Co-Organizer	
2020, 2022 2020 2017 2012	PL+HCI Swimmer School CambridgeCHI, a regional virtual symposium of accepted CHI talks Program Synthesis Hackathon at UC Berkeley MIT edTech reading group	
	External Advisory Boards	
2021	Semantic Scholar, Allen Institute for Artificial Intelligence	
	Conference program committees	
2024 2023, 2024 '19,21,23,24 '17,19-21,23- 24 2022 2021 2021, 2024 2020, 2021 2020	ACM FAccT AC, Interaction Track Onward! Papers at the ACM SIGPLAN SPLASH conference Onward! Essays at the ACM SIGPLAN SPLASH conference ACM UIST AC ACM CHI Engineering Interactive Systems and Technologies subcommittee AC ACM CHI Computational Interactions subcommittee AC ACM UIST Best Paper Committee ACM DIS AC ACM CSCW AC ACM FAT	
2017-2019 2015	ACM Learning at Scale (L@S) ACM CHI Works-in-Progress subcommittee	
	Organizing Committees	
2025 2024 2023-24	35th U.S. Kavli Frontiers of Science symposium National Acad Co-organizer, "History and Future of HCI' Co-organizer, "Loopholes: Spirit-vs-Letter of the Law at the Dawn of AI" H Exploratory Seminar	emy of Sciences HCIC farvard Radcliffe
2019-present 2023, 2024 2020	Workshop on Evaluation and Usability of Programming Languages and Tools (PL Workshops Co-Chair Publicity Co-Chair	ATEAU) ACM UIST ACM UIST
2020-present 2019 2017-2018 2017	LIVE Steering Committee, for improving the usability of programming Doctoral Consortium Co-Chair Registration Chair Text Across Domains (TextXD) Workshop Berkeley Institute	SPLASH ACM UIST ACM UIST of Data Science
	Workshop program committees	
2024 2023	Trust and Reliance in Human-AI Workflows Symposium on Machine Programming (MAPS) co-located with ESEC/FSE	CHI
2020, 2023 2022, 2023 2021	Workshop on Human Aspects of Types and Reasoning Assistants (HATRA) Workshop on Trust and Reliance in AI-Human Teams (TRAIT) Workshop on Math AI for Education (MATHAI4ED)	SPLASH CHI NeurIPS
2019, 2020 2019-21	Workshop on Knowledge Representation $\mathring{\sigma}$ Reasoning Meets Machine Learning Workshop on Intelligent Textbooks (iTextbooks)	NeurIPS AIED

2018, 2019	LIVE Programming Workshop, for improving the usability of programming	SPLASH
2022 2019 2017, 2019 2015, 2017	Session chairing and panel moderation Co-chair of the working group on "Formal methods in HCC" NSF FMir Panel moderator, "Beyond Words: Gender and the Aesthetics of Communicat ACM UIST "Code/Education Session" and "Software and Hardware Developer ACM CHI "Social Media & Citizen Science" and "All About Data"	tF Virtual PI Meeting tion" Radcliffe nent"
	Institute, School and University committees	
2024-present 2023-24 2023 2022-2025 2022 2020 2005	Working group on AI Professor of the Practice in Innovation Search Committee MDE Lecturer search committee Standing Committee on Degrees in Studies of Women, Gender, and Sexuality Support for Junior Faculty Working Group Enrollment Working Group member, planning for Harvard's reopening Council on Educational Technology member	Harvard SEAS Harvard SEAS Harvard SEAS/GSD Harvard FAS Radcliffe Institute Harvard MIT
	Department and School committees	
2022-2024 '20-21,23-24 2018-2019 2018-2019 2018-2019 2018 2006-2008	Computer Science Curriculum Committee Committee on Higher Degrees (CHD) PhD Diversity Admissions Committee member Junior Faculty Search Committee member Graduate Admissions Committee member Joint Degree Programs Committee member Education Committee member	CS, Harvard CS, Harvard SEAS, Harvard CS, Harvard SEAS, Harvard CS, Harvard EECS, MIT
	External Reviewing	
2022 2019	<i>Grants</i> Site Visit Panel Grant Review Panel	NSF NSF
2022 2022, 2023 2021 2018 `17,21,23,24	<i>Journals and Magazines</i> Science Magazine Communications of the ACM (CACM) Transactions on Software Engineering and Methodology (TOSEM) Empirical Software Engineering (EMSE) Transactions on Computer-Human Interaction (TOCHI)	AAAS ACM ACM ACM
2022	Conferences Human-Centered Natural Language Processing theme	NAACL

Mentoring and Advising

	Postdoctoral Scholars	
2023-2024	Katy Gero	Harvard CS
2023	Ian Arawjo	Harvard CS
2022-2023	Jonathan K Kummerfeld (Visiting Scholar)	UMich CS
2020-2022	Hendrik Heuer (Visiting Scholar)	University of Bremen CS
2019-2021	Tianyi Zhang	Harvard CS

	Doctoral Students	
2023-present	Ziwoi Cu	Harvard CS
2022-present	Ziwei Gu	Harvard CS
2022-2023	Tyler Holloway	Harvard CS
2020-present	Privan Vaithilingam	Harvard CS
2020-present	i iiyan vatuningan	That value CS
	PhD Thesis Committees	
2021-2024	Edwin Chng	Harvard HGSE
2023-present	Hussein Mozannar	MIT EECS
2023-present	Amber Horvath	CMU HCII
2023-present	Simon Warchol	Harvard CS
2023-present	Mark Keller	HMS
2022-2023	Rebecca Krosnik	UMich CS
2020-2023	Serena Booth	MITEECS
2023	Jackson Killian	Harvard CS
2022-23	Ziv Epstein	Mi I Media Lab
2021-22	Jingmei riu Sophia Hilgard	Harvard CS
2021	Oscar Alverado	Faivaiu CS
2021	Felix Condo	Harward CS
2021	Andrew Poss	Harvard CS
2021	Minguk Chang	KAIST CS
2020	Hendrik Heuer	University of Bremen CS
2020		University of Dremen es
	Quals and Oral Comprehensive Exam Committees	
2024	(Anticipated) Sonia Murthy	Harvard Psychology/CS
2023	Joanne Leong	MIT Media Lab
2023	Diana Feng	HGSE
2023	Stephanie Yang	HGSE
2023	Jakob Troidl	Harvard CS
2021	Ziv Epstein	MIT Media Lab
2021	Edwin Chng	HGSE
2021	Jamelle Watson-Daniels	Harvard CS
2020	Andrew Ross	Harvard CS
2019		Harvard CS
2019	Instang Insu	Harvard CS
2019	Juntao wang	Harvard CS
2019	Enc Lu	Haivaiu CS
	Master's Thesis Advisor	
2023-24	Daeun Yoo	Design Engineering
2023	Luke Reeve	Design Engineering
2023	Jiabin Wei	Design Engineering
2022	Erica Luzzi	Design Engineering
2021	Litao Yan	Computational Science & Engineering
2019	Janet Sung	Design Engineering
	Master's Academic Advisor	
2023	Vicki Xu	SEAS AB/SM
2023	Victor Goncalves	SEAS AB/SM
2023	Justin O'Dwyer	SEAS AB/SM
2021	Luke Kenworthy	Harvard GSAS MS in CS

	Additional Student Research Mentees	
2021-2023	Sharon Tai	Harvard Extension
2021-2023	Nikhil Singh	MIT Media Lab
2021-2022	Daria Savchenko	Harvard Anthropology
2021-2022	Guillermo Bernal	MIT Media Lab
2019-2022	Anna Zeng	MIT EECS
2021	Nicolo Foppiani	Harvard Physics
2020-2021	Saniana Sharma	Harvard GSD
2010	Phoebe Lin	Harvard GSD
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	Undergraduate Senior Thesis Advisor	
2023-2024	Leah Teichholtz	Harvard CS
2023-2024	Tara Nadella	Harvard CS
2022-2023	Karina Halevy	Harvard CS & History
2021	Wassim Marrakchi	Harvard CS
2020-2021	Cole Bateman	Harvard CS
2020-2021	Ahan Malhotra	Harvard CS
2020-2021	George Moe	Harvard CS
2020	Katherine Qian	Harvard CS
2020	Jake Cui	Harvard CS & Linguistics
2020	Rebecca Hao	Harvard CS & Linguistics
2019	Sam Oh	Harvard CS & Philosophy
	Acadamia Vaar Undergraduate Decearaters	
	Academic Tear Undergraduate Researchers	
2023		
2021-2022	Karina Halevy	Radcliffe
2021-2022	Lauren Chen	Radcliffe
2021-2022	Maegan Jong	Radcliffe
2021-2022	Kayla Huang	Radcliffe
2021-2022	Kavya Kopparapu	Harvard CS
2021-2022	Eric Lin	Harvard CS
2021	Elizabeth Hu	Harvard CS
	Summer Undergraduate and High School Researchers	
2010 2020	Cole Bateman	Harvard CS
2019, 2020	Jamie Lee	High School Student
2019	Jaine Lee	riigii School Student
	Undergraduate Academic Advising	
2023	FYRE (first-gen freshman pre-orientation) 'Academics Unlocked' Brea	kout session Harvard
2019-present	Concentration advisor to \approx 15 CS students, annually	Harvard CS
2019-2022	First year advisor to 3-4 freshman women with interest in CS	Harvard FAS
	Extracurricular Enrichment	
2024	Speaker/Panelist Harvard x MIT Women in CS Research Event	Harvard WiCS
2022	Speaker Responsible AI student group	Harvard
2025	Mentor Women in CS "Women Engineers Code Hackathan"	Harvard
2013	wentor, women in Co-women Engineers Code Hackathon	1 Idi Valu

Teaching

Experience

2023, 2024 "Human-Computer Interaction and AI: What practitioners need to know to design and build effective AI systems from a human perspective" CHI

2023, 2024	Course Head, CS178 Engineering Usable Interactive Systems (\approx 35-	-40 students)	Harvard CS
20,22,23	Course Head, CS279R Research Topics in HCI (\approx 35-45 students)		Harvard CS
2020, 2021	Course Head, CS179 Design of Useful & Usable Interactive Syste	ms (\approx 75, then \approx	115 students)
	Harvard CS		
2019	Co-Led, CS279R PL/HCI Graduate Seminar (\approx 30 students)		Harvard CS
2019	Co-Led, CS179 Design of Useful & Usable Interactive Systems (≈75	5 students)	Harvard CS
2016	Co-lecturer, 6.831 User Interface Design & Implementation (≈175 s	students)	MIT EECS
2013	Instructor, introductory Python programming	MIT ME	ET, Jerusalem
2013	Video script writer & presenter, radio receiver technology	MIT Teaching $\dot{\mathscr{C}}$	Learning Lab
2012-2014	Teaching assistant, 6.004 Computation Structures		MIT EECS
2011	Teaching assistant, Introduction to EECS 1		MIT EECS
2006-2011	Tutor, Signals, Systems, & Probabilistic Systems Analysis	MIT EECS H	Ionor Society

TEACHER TRAINING

2022-23	LInc (Learning Incubator) Faculty Fellow	Harvard SEAS
2020	Course Planning Workshop	Harvard OUE and Bok Center
2019	Leadership Skills for Engineering and Science Faculty	MIT Professional Education
2011	Graduate Student Teaching Certificate	MIT Teaching & Learning Lab

Invited Keynote Talks

2024	Workshop on LLMs as Research Tools	CHI
2023	Generative AI for Education (GAIED) Workshop	NeurIPS
2023	IEEE Symposium on Visual Languages and Human-Centric Computing	VL/HCC
2022	Workshop on User-Centered Artificial Intelligence	UCAI
2021	ACM SIGPLAN International Conference on Functional Programming	ICFP
2020	ACM SIGPLAN conference on Systems, Programming, Languages, and Applications:	
	Software for Humanity	SPLASH
2020	Workshop on Computer-Assisted Programming	NeurIPS

Conference Symposium Talks

2022	Advancing Human-AI Communication and Interaction	APS Annual Convention
2022	Misunderstanding and misalignment in children and machines	Cognitive Development Society

Harvard Executive Education Talks

2022, 2023	Leadership in AI	SEAS/HKS
2021, 2023	Technology and Social Impact	Advanced Leadership Initiative
2019	Real Colegio Complutense	Harvard

Invited Seminar Talks

2024	ETH CS Distinguished Colloquium	ETH
2024	MIT HCI Seminar	MIT
2024	University of Michigan Interactive and Social Computing (MISC)	UMich
2023	IBM Human-Centered AI Speaker Series	IBM
2023	Stanford Seminar on People, Computers and Design	Stanford CS

2022	Systems Lunch	UMass Amherst
2022	Intelligent Systems Center Seminar Series	Johns Hopkins Applied Physics Lab
2022	PROSE Group Meeting	MSR Redmond
2022	PAIR (People + AI Research) Talks	Google
2022	CS Department Seminar	Williams
2022	Special Seminar	UW Madison
2021	CS Department Seminar	Oxford
2021	Berkeley Programming Systems Seminar	UC Berkeley
2021	HCI Seminar	University of Washington
2021	Radcliffe Fellow's Talk	Harvard
2021	Radcliffe Dean's Advisory Board	Harvard
2021	IrisX	Cairo CHI
2021	BostonCHI	Cambridge, MA
2020	PurPL Seminar Series	Purdue
2019	Josh Tenenbaum's research group meeting	MIT BCS
2019	PROSE Group Meeting	MSR
2018	Computer Science Department seminar	UBC
2018	iSchool seminar	University of Washington
2018	Computer Science & Engineering Department seminar	UMich
2018	Computer Science & Engineering Department seminar	UCSD
2018	Computer Science Department seminar	UIUC
2018	Computer Science Department seminar	UMaryland
2018	Human-Computer Interaction Institute	CMU
2018	Electrical Engineering & Computer Science Department sem	inar UC Berkeley
2018	Computer Science Department seminar	Stanford
2018	Computer Science Department seminar	ETH Zürich
2018	Computer Science Department seminar	Brown
2018	Computing and Information Science Department seminar	Cornell
2018	School of Computer and Communication Sciences seminar	EPFL
2018	Computer Science Department seminar	Harvard
2018	Computer Science Department seminar	Princeton
2018	Computer Science Department seminar	UW-Madison
2018	Computer Science Department seminar	UChicago
2018	Computer Science Department seminar	UToronto
2018	Dan Schwartz and Carl Wieman's lab Sta	anford Graduate School of Education
2017	NSF Expeditions in Computer Augmented Program Engineer	ring (ExCAPE) PI Meeting UPenn
2017	Stanford HCI summer seminar	Stanford
2017	MIT CSAIL Machine Learning Tea	MIT CSAIL
2016	Special Seminar for CS61a Staff, UC Berkeley's largest CS cla	uss UC Berkeley
2016	Berkeley Institute of Design	UC Berkeley
2015	Harvard Berkman Center Cooperation Group	Harvard
2015	Computer Science Department seminar	Duke
2015	HCI summer seminar	Stanford
2015	Lunch seminar	HarvardX
2015	Computer Science Department seminar	Wellesley
2014	DUB Seminar on HCI ぐ Design	UWashington
2001	Special Seminar on International Science & Engineering Fair	project Schlumberger-Doll

Invited Panelist

2023	Harvard Law AI Summit, organized by the Library Innovation Lab	Harvard Law School
2022	Navigating Tech and Society at Harvard	Harvard
2021	Society for Science Signature Event	Virtual
2021	Doctoral Consortium panelist/mentor	ACM UIST
2018, 2021	Rising Stars workshop for aspiring female EECS professors	MIT EECS
2021	Panel on the Future of the Unix shell	HotOS
2021	Tech for Social Good Mid-Term Presentations	Harvard
2020	Academic Job Search Seminar	MIT EECS
2020	Path to the Professorship	MIT
2020	Celebrating IUI's 25th anniversary, canceled due to COVID-19	ACM IUI
2019	MIT GW6 (Graduate Women in EECS) Research Summit conference	MIT EECS
2016	SuperUROP (Undergraduate Research) Seminar	MIT EECS
2015	Women Techmaker's Summit	Google Cambridge

Workshop Presentations

ACADEMIC CONFERENCES

2022	Educational Programming Languages and Systems	Schloss Dagstuhl
2020	SE4ML - Software Engineering for AI-ML-based Systems	Schloss Dagstuhl
2017, 2019	Approaches and Applications of Inductive Programming	Schloss Dagstuhl
2017	Workshop on Advancing Education with Data	ACM KDD
2017	Diverse Ways of Inferring Missions	DARPA
2017	Augmented Developers: Tools for Hybrid Human-Machine Software Eng.	DARPA
	Doctoral Consortiums	
2015 2013	Interacting with massive numbers of student solutions Visualizing \mathcal{C} classifying multiple solutions to engineering design problems	ACM UIST ACM ICER

Selected Outreach

2024	Invited Speaker, Visitas Thinks Big	Harvard Visitas
2023	Invited Speaker, Saturday of Symposia	Harvard Alumni Association
2022	Panelist, Presidents' Scholarship session	IEEE STEM Summit
2022	Panelist, "How Humans Can Understand Robot Behaviors"	MIT Horizon
2020, 2021	Panelist, session for high school science students	Branson High School
2020	Keynote speaker, 2020 High School Conference	Harvard WECode
2020	Creator, Podcast "Design of Useful and Usable Interactive Systems"	
2018	Invited lecturer, software engineering course for underrepresented of	college students Google
2016	Invited speaker, HCI course	Bucknell
2015	Invited speaker, summer camp for girls	GirlTechPower
2014, 2015	Invited speaker, Hour of Code event for local schools	MIT CSAIL
2008, 2011	Invited speaker, Women's Technology Program	MIT
2008	Invited speaker, Campus Preview Weekend	MIT CSAIL

Selected press

2023	A case for making our AI chatbots more confrontational	FastCompany
2020	Scenes from the socially distant, teaching profile	The Harvard Gazette
2020	Bringing additional expertise to class via remote instruction, teachi	ng profile Harvard SEAS
2015	Reviewing online homework at scale, research profile	MIT News Homepage Spotlight
2015	It takes a network, quoted	MIT News
2015	Guest on Upvoted podcast	Reddit
2004	Not Too Young for a Patent, profile	New York Times
2003	America's Bright Future on Lou Dobbs Tonight, profile	CNN
2003	Guest on American Morning	CNN
2003	Rising Stars Vol. 300, Issue 5624, p. 1368, profile	Science

Athletics Program Involvement

2020-present	Faculty sponsor of the Harvard Women's Wrestling Club	Harvard
2019-present	Active participant in the Harvard Running community	Harvard
2010, 2012	US Olympic Wrestling Training Camp participant	Colorado Springs, CO
2009-2012	Competitor, regional & national women's wrestling tournaments	US & Canada
2010	All-American Wrestler, National Collegiate Wrestling Association	Hampton, VA
2008	Team Member, NCAA Div. III Varsity Wrestling Team	MIT

Earlier selected honors & awards

2016	Audience Choice Award	MIT Can Talk speech competition
2009	Masterworks Oral Thesis Presentation Award	MIT EECS
2008	Vice President and member, EECS Honor Society	Eta Kappa Nu
2004	Valedictorian & commencement speaker	Central Bucks High School West
2004	Inducted, National Gallery for America's Young Inv	entors
2003	Best of Category: Computer Science	Intel International Science & Engineering Fair
	Harvard's Faculty of Arts and Sciences grants appointment extensions and teaching relief to tenure-	
	track faculty, in keeping with policies related to the C	OVID-19 pandemic, medical leave, and parental

ŀ leave. Accordingly, Harvard delayed my associate review.

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