

# Elena Leah Glassman

Assistant Professor of Computer Science at Harvard University

[2018-2022] Stanley A. Marks & William H. Marks Professor at the Radcliffe Institute for Advanced Study

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## Areas of specialization

Human-Computer Interaction • Programming Systems • Data Science • Human & machine teaching

## Education

2016-2018	EECS Postdoctoral Scholar	Berkeley Institute of Design, EECS Department, UC Berkeley Supervised by Björn Hartmann, Associate Professor of EECS
2012-2016	Graduate student	User Interface Design Group, EECS Department, CSAIL, MIT PhD Thesis: <i>Clustering and Visualizing Solution Variation in Massive Programming Classes</i> Advised by Robert Miller, Distinguished Professor of CS
2008-2011	Graduate student	Robot Locomotion Group, EECS Department, CSAIL, MIT M.Eng. Thesis: <i>A quadratic regulator-based heuristic for rapidly exploring state space</i> Advised by Russ Tedrake, Professor of EECS
2010-2011	Visiting researcher	Biomimetics & Dexterous Manipulation Lab, Stanford University
2006-2008	Undergraduate researcher	Robot Locomotion Group, CSAIL, MIT
2004-2006	Undergraduate researcher	Networks & Mobile Systems, CSAIL, MIT
2003-2004	Invited high school student researcher	Psychology Dept's EEG Lab, Princeton University

## Research Internships

2015	User experience research intern	Search, Google <i>Advised by Dan Russell, Senior Research Scientist</i>
2014	Design research intern	Microsoft Research <i>Advised by M.R. Morris, Principal Researcher, and A. Monroy-Hernández, Researcher</i>

## Selected fellowships and scholarships

2023	Sloan Fellow
2018-2022	Radcliffe Fellow 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) <i>Awarded to the top 3 individual projects at the Intel International Science &amp; Engineering Fair</i>

## Top Five Publications by Citation Count

- 153 citations **EL Glassman**, J Scott, R Singh, P Guo, RC Miller  
[OverCode: visualizing variation in student solutions to programming problems at scale](#)  
*ACM Transactions on Computer-Human Interaction*, 22 (2), April 2015.
- 111 citations A Head\*, **EL Glassman**\*, G Soares\*, R Suzuki, L Figueredo, L D'Antoni and B Hartmann  
[Writing Reusable Code Feedback at Scale with Mixed-Initiative Program Synthesis](#)  
*ACM Learning at Scale*  
 13% acceptance rate
- 97 citations **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*
- 83 citations **EL Glassman** and R Tedrake  
[A quadratic regulator-based heuristic for rapidly exploring state space](#)  
*IEEE International Conference on Robotics and Automation*
- 75 citations **EL Glassman**  
[A wavelet-like filter based on neuron action potentials for analysis of human scalp electroen- cephalographs](#)  
*IEEE Transactions on Biomedical Engineering* 52 (11), 1851-1862, Nov. 2005

## All Publications

### JOURNAL ARTICLES AND REFEREED CONFERENCE PAPERS

Top-tier ACM conferences in human-computer interaction, i.e., CHI, CSCW, & UIST, are highly selective venues for archival papers only, comparable to many IEEE journals in their selectivity, visibility, and impact. \* indicates equal contribution.

- 2022 UIST L Yan, M Kim, B Hartmann, T Zhang, **EL Glassman**  
[Concept-Annotated Examples for Library Comparison](#)  
*ACM Symposium on User Interface Software & Technology*
- 2022 HRI S Booth, S Sharma, S Chung, J Shah, **EL Glassman**  
[Revisiting Human-Robot Teaching and Learning Through the Lens of Human Concept Learning Theory](#)  
*ACM/IEEE International Conference on Human-Robot Interaction*
- 2022 TOCHI N Singh\*, G Bernal\*, D Savchenko\*, **EL Glassman**  
[Where to Hide a Stolen Elephant: Leaps in Creative Writing with Multimodal Machine Intelligence](#)  
*ACM Transactions on Computer-Human Interaction*
- 2022 CHI EA P Vaithilingam, T Zhang, **EL Glassman**  
[Expectation vs. Experience: Evaluating the Usability of Code Generation Tools Powered by Large Language Models](#)  
*Extended Abstracts of the 2022 CHI Conference on Human Factors in Computing Systems*
- 2022 CHI H Heuer, **EL Glassman**  
[A Comparative Evaluation of Interventions Against Misinformation: Augmenting the WHO Check-list](#)  
*ACM Conference on Human Factors in Computing Systems*  
 Typically 23-25% acceptance rate

- 2022 ICWSM Z Epstein\*, N Foppiani\*, S Hilgard\*, S Sharma\*, **EL Glassman**, D Rand  
[Do explanations increase the effectiveness of AI-crowd generated fake news warnings?](#)  
*International AAAI Conference on Web and Social Media*
- 2021 UIST J Hu, P Vaithilingam, S Chong, M Seltzer, **EL Glassman**  
[ASSUAGE: Assembly Synthesis Using A Guided Exploration](#)  
*ACM Symposium on User Interface Software & Technology*
- 2021 CACM S Chasins, **EL Glassman**, J Sunshine  
[PL and HCI: Better Together](#)  
*Communications of the ACM* Vol. 64, Issue 8
- 2021 CHI **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](#)  
*ACM Conference on Human Factors in Computing Systems*  
 23-25% acceptance rate
- 2021 CHI T Zhang, Z Chen, Y Zhu, P Vaithilingam, X Wang, **EL Glassman**  
[Interpretable Program Synthesis](#)  
*ACM Conference on Human Factors in Computing Systems*  
 23-25% acceptance rate
- 2021 CHI **Best of CHI Honorable Mention (top 5%)** L Yan, **EL Glassman**, T Zhang  
[Visualizing Examples of Deep Neural Networks at Scale](#)  
*ACM Conference on Human Factors in Computing Systems*  
 23-25% acceptance rate
- 2020 FSE C Barnaby, K Sen, T Zhang, **EL Glassman**, and S Chandra  
[Exempla Gratis \(E.G.\): Code Examples for Free](#)  
*Industry Track of ACM Joint European Software Engineering Conference & Symposium on the Foundations of Software Engineering*
- 2020 UIST T Zhang, L Lowmanstone, X Wang, **EL Glassman**  
[Interactive Program Synthesis by Augmented Examples](#)  
*ACM Symposium on User Interface Software & Technology*
- 2020 CHI T Zhang, B Hartmann, M Kim, **EL Glassman**  
[Enabling Data-Driven API Design with Community Usage Data: A Need-Finding Study](#)  
*ACM Conference on Human Factors in Computing Systems*
- 2020 IUI **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*
- 2019 VL/HCC J Cambronero, J Shen, J Cito, **EL Glassman**, M Rinard  
[Characterizing developer use of automatically generated patches](#)  
*IEEE Symposium on Visual Languages and Human-Centric Computing*  
 31-33% acceptance rate
- 2018 CHI **EL Glassman\***, T Zhang\*, B Hartmann, and M Kim  
[Visualizing API Usage Examples at Scale](#)  
*ACM Conference on Human Factors in Computing Systems*  
 25.8% acceptance rate
- 2018 CHI **Best of CHI Honorable Mention (top 5%)** A Head, **EL Glassman**, B Hartmann, and M Hearst  
[Interactive Extraction of Examples from Existing Code](#)

- ACM Conference on Human Factors in Computing Systems*  
25.8% acceptance rate
- 2017 L@S A Head\*, **EL Glassman**\*, G Soares\*, R Suzuki, L Figueredo, L D’Antoni and B Hartmann  
[Writing Reusable Code Feedback at Scale with Mixed-Initiative Program Synthesis](#)  
*ACM Learning at Scale*  
13% acceptance rate
- 2017 VL/HCC R Suzuki, G Soares, A Head, **EL Glassman**, R Reis, M Mongiovi, L D’Antoni, and B Hartmann  
[TraceDiff: Debugging Unexpected Code Behavior Using Trace Divergences](#)  
*IEEE Symposium on Visual Languages and Human-Centric Computing*  
29% acceptance rate
- 2016 CSCW **EL Glassman**, A Lin, C Cai, R Miller  
[Learnersourcing Personalized Hints](#)  
*ACM Computer-Supported Cooperative Work and Social Computing*  
25% acceptance rate
- 2016 ASIST **EL Glassman**, D Russell  
[DocMatrix: Self-Teaching from Multiple Sources](#)  
ASIS&T Annual Meeting  
40% acceptance rate
- 2015 UIST **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 **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](#)  
*ACM Conference on Human Factors in Computing Systems*  
23% acceptance rate
- 2015 CHI 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 **EL Glassman**, J Scott, R Singh, P Guo, RC Miller  
[OverCode: visualizing variation in student solutions to programming problems at scale](#)  
*ACM Transactions on Computer-Human Interaction*, 22 (2), April 2015.
- 2013 ICER **EL Glassman**, N Gulley, RC Miller  
[Toward Facilitating Assistance to Students Attempting Engineering Design Problems](#)  
*ACM International Computing Education Research*  
33% acceptance rate
- 2012 ICRA **EL Glassman**, A Desbiens, M Tobenkin, M Cutkosky, and R Tedrake  
[Region of attraction estimation for a perching aircraft: A Lyapunov method exploiting barrier certificates](#)  
*IEEE International Conference on Robotics and Automation*  
40% acceptance rate
- 2010 ICRA **EL Glassman** and R Tedrake  
[A quadratic regulator-based heuristic for rapidly exploring state space](#)  
*IEEE International Conference on Robotics and Automation*

- 2005 TBME **EL Glassman**  
[A wavelet-like filter based on neuron action potentials for analysis of human scalp electroencephalographs](#)  
*IEEE Transactions on Biomedical Engineering* 52 (11), 1851-1862, Nov. 2005
- MIT TECHNOLOGY REPORTS
- 2015 CSAIL 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.
- BOOK CHAPTERS
- 2016 JJ Williams, J Kim, **EL Glassman**, A Rafferty, W Lasecki  
 “Making Static Lessons Adaptive through Crowdsourcing & Machine Learning”  
*Design Recommendations for Intelligent Tutoring Systems: Domain Modeling* Vol. 4,  
 US Army Research Laboratory, July 2016.
- POSTERS, DEMOS, AND WORKSHOP PAPERS
- 2022 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 2022*
- 2022 CHI P Vaithilingam, T Zhang, **EL Glassman**  
[Expectation vs. Experience: Evaluating the Usability of Code Generation Tools Powered by Large Language Models](#)  
*Late-Breaking Work @ ACM CHI*
- 2021 VAHC 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 MiC S Bridgers, **EL Glassman**, L Schulz, T Ullman  
[Loopholes: a Window into Value Alignment and the Learning of Meaning](#)  
*(MiC) Workshop @ NeurIPS*
- 2020 C+J **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”  
*Computation + Journalism Symposium*
- 2019 PLATEAU Rebecca Hao and **EL Glassman**  
 “Approaching polyglot programming: what can we learn from bilingualism studies?”  
 Workshop on Evaluation and Usability of Programming Languages and Tools  
*Co-located with ACM User Interface Software and Technology*
- 2017 KDD S Tan, F Doshi-Velez, J Quiroz, **EL Glassman**  
 “Clustering LaTeX Solutions to Machine Learning Assignments for Rapid Assessment”  
 Machine Learning for Education Workshop  
*ACM Conference on Knowledge Discovery and Data Mining*
- 2017 CHI EA R Suzuki, G Soares, **EL Glassman**, A Head, L D’Antoni, and B Hartmann  
 “Exploring the Design Space of Automatically Synthesized Hints for Introductory Programming

## Assignments”

*CHI EA '17: Proceedings of the 2017 CHI Conference Extended Abstracts on Human Factors in Computing Systems*

- 2017 L@S     A Ju, **EL Glassman**, A Fox  
“Teamscope: Scalable Team Evaluation via Automated Metric Mining for Communication, Organization, Execution, and Evolution”  
*ACM Learning at Scale Conference*
- 2016 ICML     **EL Glassman**  
“Learning Latent Student Design Decisions in Python Programming Classes”  
Workshop on Machine Learning for Digital Education and Assessment Systems  
*International Conference on Machine Learning*
- 2016 NEML     **EL Glassman**  
“Learning Latent Student Design Decisions in Massive Python Programming Classes”  
*New England Machine Learning Day*
- 2016 CSCW     **EL Glassman** and R Miller  
“Leveraging Learners for Teaching Programming and Hardware Design at Scale”  
*ACM Computer-Supported Cooperative Work and Social Computing*
- 2016 CSCW     **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     **EL Glassman**, C Terman, R Miller  
“Learner-Sourcing in an Engineering Class at Scale”  
*ACM Learning at Scale Conference*
- 2014 UIST     **EL Glassman**  
“Interacting with Massive Numbers of Student Solutions”  
*ACM Symposium on User Interface Software & Technology*
- 2014 L@S     **EL Glassman**, R Singh, R Miller  
“Feature Engineering for Clustering Student Solutions”  
*ACM Learning at Scale Conference*
- 2009 NIPS     **EL Glassman**  
“A quadratic regulator-based heuristic for rapidly exploring state space”  
Women in Machine Learning Workshop (WIML)  
*Neural Information Processing Systems*
- 2006 EMBS     **EL Glassman** and J Guttag  
“Reducing the number of channels for an ambulatory patient-specific EEG-based epileptic seizure detector by applying recursive feature elimination”  
*IEEE Engineering in Medicine and Biology Society*

## Fundraising

NSF

- 2021-25     Co-PI, Collaborative Research: FMITF: Track I: Usable Synthesis-based End-User Programming with Rich Interaction Modalities

2021-24	Co-PI, FAI: Foundations of Fair AI in Medicine: Ensuring the Fair Use of Patient Attributes
2020-24	Lead PI, Collaborative Research: CHS: Medium: Code demography: Addressing information needs at scale for programming interface users and designers
2020-23	Co-PI, Robust Intelligence (RI): Small: Human Validation in Batch Reinforcement Learning
2019-22	PI, WORKSHOP: Student Innovation Challenge at User Interface Software and Technology 2019

#### INDUSTRY

2019-present	Facebook/Meta
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#### HARVARD

2021	Harvard Data Science Initiative Trust in Science Award
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## Service

#### FOUNDING CO-ORGANIZER

2020, 2022	PL+HCI Swimmer School
2020	CambridgeCHI, a regional virtual symposium of accepted CHI talks
2017	Program Synthesis Hackathon at UC Berkeley
2012	MIT edTech reading group

#### EXTERNAL ADVISORY BOARDS

2021	Semantic Scholar, Allen Institute for Artificial Intelligence
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#### CONFERENCE PROGRAM COMMITTEES

2019,21,23	ACM UIST
2023	Onward! Track at ACM SIGPLAN SPLASH conference
2017,19-21,23	ACM CHI Engineering Interactive Systems and Technologies subcommittee
2022	ACM CHI Computational Interactions subcommittee
2021	ACM DIS
2020, 2021	ACM CSCW
2017-2019	ACM Learning at Scale (L@S)
2015	ACM CHI Works-in-Progress subcommittee

#### ORGANIZING COMMITTEES

2023	ACM UIST Workshops Co-Chair
2020	ACM UIST Publicity Co-Chair
2019-present	Workshop on Evaluation and Usability of Programming Languages and Tools (PLATEAU)
2019	ACM UIST Doctoral Consortium Co-Chair
2017-2018	ACM UIST Registration Chair

#### WORKSHOP PROGRAM COMMITTEES

2020, 2023	4th International Workshop on Human Aspects of Types and Reasoning Assistants	SPLASH
2022, 2023	Workshop on Trust and Reliance in AI-Human Teams (TRAIT)	CHI
2021	Workshop on Math AI for Education (MATHAI4ED)	NeurIPS
2019, 2020	Workshop on Knowledge Representation & Reasoning Meets Machine Learning	NeurIPS
2019-21	Workshop on Intelligent Textbooks (iTextbooks)	AIED

2018, 2019	LIVE Programming Workshop, for improving the usability of programming	SPLASH
2017, 2018	Workshop on Evaluation and Usability of Programming Languages and Tools	SPLASH
	<i>Session chairing</i>	
2022	Co-chair of the working group on “Formal methods in HCC”	NSF FMitF Virtual PI Meeting
2017, 2019	ACM UIST “Code/Education Session” and “Software and Hardware Development”	
2015, 2017	ACM CHI “Social Media & Citizen Science” and “All About Data”	
	<i>Workshops</i>	
2019-present	Workshop on Evaluation and Usability of Programming Languages and Tools	UIST, SPLASH
2020	LIVE Steering Committee, for improving the usability of programming	SPLASH
2017	Text Across Domains (TextXD) Workshop	Berkeley Institute of Data Science

#### INSTITUTE AND UNIVERSITY COMMITTEES

2023	MDE Lecturer search committee	Harvard SEAS/GSD
2022-2023	Standing Committee on Degrees in Studies of Women, Gender, and Sexuality	Harvard FAS
2022	Support for Junior Faculty Working Group	Radcliffe Institute
2020	Enrollment Working Group member, planning for Harvard’s reopening	Harvard
2005	Council on Educational Technology member	MIT

#### DEPARTMENT AND SCHOOL COMMITTEES

2022-2022	Computer Science Curriculum Committee	CS, Harvard
2020-2021	Committee on Higher Degrees (CHD)	CS, Harvard
2018-2019	PhD Diversity Admissions Committee member	SEAS, Harvard
2018-2019	Junior Faculty Search Committee member	CS, Harvard
2018-2019	Graduate Admissions Committee member	SEAS, Harvard
2018	Joint Degree Programs Committee member	CS, Harvard
2006-2008	Education Committee member	EECS, MIT

#### EXTERNAL REVIEWING

	<i>Grants</i>	
2022	Site Visit Panel	NSF
2019	Grant Review Panel	NSF
	<i>Journals and Magazines</i>	
2022	Science Magazine	AAAS
2022	Communications of the ACM (CACM)	ACM
2021	Transactions on Software Engineering and Methodology (TOSEM)	ACM
2018	Empirical Software Engineering (EMSE)	
2017,2021,2023	Transactions on Computer-Human Interaction (TOCHI)	ACM
	<i>Conferences</i>	
2022	Human-Centered Natural Language Processing theme	NAACL

## Mentoring and Advising

	<i>Postdoctoral Scholars</i>	
2023	Katy Gero	Harvard CS
2023-2024	Ian Arawjo	Harvard CS
2020-2022	Hendrik Heuer	University of Bremen CS
2019-2021	Tianyi Zhang	Harvard CS



<i>Doctoral Students</i>		
2022-present	Ziwei Gu	Harvard CS
2022-present	Sonia Murphy	Harvard CS
2020-present	Tyler Holloway	Harvard CS
2020-present	Priyan Vaithilingam	Harvard CS
<i>PhD Thesis Committees</i>		
2020-present	Serena Booth	MIT EECS
2023	Simon Warchol	Harvard CS
2023	Jackson Killian	Harvard CS
2023	Mark Keller	HMS
2022	Rebecca Krosnik	UMich CS
2022	Ziv Epstein	MIT Media Lab
2021-22	Jingmei Hu	Harvard CS
2021	Sophie Hilgard	Harvard CS
2021	Oscar Alvarado	KU Leuven CS
2021	Felix Gonda	Harvard CS
2021	Andrew Ross	Harvard CS
2020	Minsuk Chang	KAIST CS
2020	Hendrik Heuer	University of Bremen CS
<i>Quals and Oral Comprehensive Exam Committees</i>		
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	Sophie Hilgard	Harvard CS
2019	Hsiang Hsu	Harvard CS
2019	Juntao Wang	Harvard CS
2019	Eric Lu	Harvard CS
<i>Master's Thesis Advisor</i>		
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
<i>Master's Academic Advisor</i>		
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
<i>Additional Post-Undergrad Student Research Mentees</i>		
2021-2022	Sharon Tai	Harvard Extension
2021-2022	Daria Savchenko	Harvard Anthropology
2021-2022	Guillermo Bernal	MIT Media Lab
2021-2022	Nikhil Singh	MIT Media Lab
2019-2022	Anna Zeng	MIT EECS
2021	Nicolo Foppiani	Harvard Physics

2020-2021	Sanjana Sharma	Harvard GSD
2019	Phoebe Lin	Harvard GSD
	<i>Undergraduate Senior Thesis Advisor</i>	
2023	Karina Halevy	Harvard CS
2021	Wassim Marrakchi	Harvard CS
2021	Cole Bateman	Harvard CS
2021	Ahan Malhotra	Harvard CS
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
	<i>Academic Year Undergraduate Researchers</i>	
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
2021	Wassim Marrakchi	Harvard CS
	<i>Summer Undergraduate and High School Researchers</i>	
2019, 2020	Cole Bateman	Harvard CS
2019	Jamie Lee	High School Student
	<i>Undergraduate Academic Advising</i>	
2019-21, 2022	Concentration advisor to $\approx 15$ CS students, annually	Harvard CS
2019-present	First year advisor to 3 to 4 freshman women with interest in CS	Harvard FAS
	<i>Extracurricular Enrichment</i>	
2013	Mentor, Harvard Women in CS “Women Engineers Code Hackathon”	

## Teaching

### EXPERIENCE

2023	“Human-Computer Interaction and AI: What practitioners need to know to design and build effective AI systems from a human perspective”	CHI
2023	Course Head, CS178 Engineering Usable Interactive Systems (33 students)	Harvard CS
2022	Course Head, CS279r Research Topics in HCI ( $\approx 45$ students)	Harvard CS
2021	Course Head, CS179 Design of Useful & Usable Interactive Systems ( $\approx 115$ students)	Harvard CS
2020	Course Head, CS279r Research Topics in HCI: Human-AI Interaction ( $\approx 35$ students)	Harvard CS
2020	Course Head, CS179 Design of Useful & Usable Interactive Systems ( $\approx 75$ students)	Harvard CS
2019	Co-Course Head, CS279r PL/HCI Graduate Seminar ( $\approx 30$ students)	Harvard CS
2019	Co-Course Head, CS179 Design of Useful & Usable Interactive Systems ( $\approx 75$ students)	Harvard CS
2016	Co-lecturer, 6.831 User Interface Design & Implementation ( $\approx 175$ students)	MIT EECS
2013	Instructor, introductory Python programming	MIT MEET, Jerusalem
2013	Video script writer & presenter, radio receiver technology	MIT Teaching & 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 Honor Society

#### TEACHING COURSES AND CERTIFICATIONS

2022	LInc (Learning Incubator) Faculty Fellow	Harvard SEAS
2020	Course Planning Workshop	Harvard OUE and Bok Center
2011	Graduate Student Teaching Certificate	MIT Teaching & Learning Lab

### Invited Keynote Talks

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

### Invited Seminar Talks

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	Executive education course “Leadership in AI”	Harvard SEAS/HKS
2022	PROSE Group Meeting	MSR Redmond
2022	PAIR (People + AI Research) Talks	Google
2022	“Advancing Human-AI Communication and Interaction” Symposium	APS Annual Convention
2022	“Misunderstanding and misalignment in children and machines” Symposium	CDS
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	Advanced Leadership Initiative Technology Innovation Deep Dive	Harvard
2021	BostonCHI	Cambridge, MA
2020	Workshop on Computer-Assisted Programming	NeurIPS
2020	PurPL Seminar Series	Purdue
2019	Josh Tenenbaum’s research group meeting	MIT BCS
2019	PROSE Group Meeting	MSR
2019	Real Colegio Complutense lecture	Harvard
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 seminar	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	Stanford Graduate School of Education
2017	NSF Expeditions in Computer Augmented Program Engineering (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 class	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 & Design,	UWashington
2001	Special Seminar	Schlumberger-Doll Research Center

## Invited Panelist

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, <i>canceled due to COVID-19</i>	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	Interacting with massive numbers of student solutions	ACM UIST
2013	Visualizing & classifying multiple solutions to engineering design problems	ACM ICER

## 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, Eta Kappa Nu, EECS Honor Society
2004	Valedictorian & commencement speaker, Central Bucks High School West
2004	National Gallery for America's Young Inventors
2003	Intel International Science and Engineering Fair – Best of Category: Computer Science

## Selected Outreach

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

## Selected press

2020	<i>Scenes from the socially distant</i> , teaching profile	The Harvard Gazette
2020	<i>Bringing additional expertise to class via remote instruction</i> , teaching profile	Harvard SEAS
2015	<i>Reviewing online homework at scale</i> , research profile	MIT News Homepage Spotlight
2015	<i>It takes a network</i> , quoted	MIT News
2015	Guest on Upvoted podcast	Reddit
2004	<i>Not Too Young for a Patent</i> , profile	New York Times
2003	<i>America's Bright Future</i> on Lou Dobbs Tonight, profile	CNN
2003	Guest on American Morning	CNN
2003	<i>Rising Stars</i> 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, e.g., Harvard on the Move	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

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