

# MOLLY Q FELDMAN

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CONTACT INFORMATION	456 Gates Hall Department of Computer Science Cornell University Ithaca, NY 14853 <a href="http://www.cs.cornell.edu/~molly/">http://www.cs.cornell.edu/~molly/</a>	<a href="mailto:molly@cs.cornell.edu">molly@cs.cornell.edu</a>
RESEARCH INTERESTS	Human-computer interaction, educational technology, crowdsourcing and human computation, programming languages	
EDUCATION	<b>Cornell University</b> , Ithaca, NY Ph.D., Computer Science Committee: Haym Hirsh (chair), Ross Tate, François Guimbretière <b>Cornell University</b> , Ithaca, NY M.S., Computer Science Advisor: Erik Andersen <b>Swarthmore College</b> , Swarthmore, PA B.A., Mathematics and Computer Science Elected Phi Beta Kappa Course Work, <i>Budapest Semesters in Mathematics</i> , Spring 2014	August 2015 - August 2020 (expected)       December 2018    August 2011 - May 2015
PUBLICATIONS	Molly Q Feldman, Yiting Wang, William E. Byrd, François Guimbretière, Erik Andersen. “Towards Answering “Am I On the Right Track?” Automatically Using Program Synthesis”. <i>Proceedings of the 2019 ACM SIGPLAN Symposium on SPLASH-E</i> . 2019.  Molly Q Feldman, Ji Yong Cho, Monica Ong, Sumit Gulwani, Zoran Popović, Erik Andersen. “Automatic Diagnosis of Student Misconceptions in K-8 Mathematics”. <i>ACM CHI Conference on Human Factors in Computing Systems</i> . 2018.	
REFEREED DOCTORAL CONSORTIA	Molly Q Feldman. “Automation and Crowdsourcing for Feedback Generation in K-12 Mathematics Education.” <i>AAAI Conference on Human Computation - Doctoral Symposium</i> . Quebec City, Canada. October 2017.	
INVITED TALKS	“A Practical Guide to User Evaluation for PL Folk”: - Programming Languages Seminar (PLDG), Cornell University, 18 October 2017 “Automatic Diagnosis of Student Misconceptions in K-8 Mathematics”: - Department of Computer Science, Harvard University, 21 June 2019 - Artificial Intelligence Seminar, Cornell University, 20 April 2018 “Salvaging Student Programs, Automatically”: - Programming Languages Seminar (PLDG), Cornell University, 18 October 2017 “Building Better Automated Feedback Solutions”: - Department of Computer Science, Brown University, 22 November 2016 - Programming Languages Seminar (PLDG), Cornell University, 16 November 2016 “PL-based Educational Technology”: - IFIP WG2.8 Meeting XXXIV, Lake Placid, NY, 18 July 2016	
AWARDS	<b>Outstanding Teaching Assistant Award</b> Awarded by Haym Hirsh in acknowledgement of work as the Head TA of Cornell’s CS 4700: Foundations of Artificial Intelligence. <b>OOPSLA Distinguished Artifact Evaluation Committee Member</b> Awarded in recognition of my contributions to the OOPSLA 2018 Artifact Evaluation Committee.	May 2019   November 2018

**Outstanding Teaching Assistant Award** May 2017  
 Awarded by Lillian Lee and Erik Andersen in acknowledgement of work as the Head TA of Cornell's CS 1110: Introduction to Computing Using Python.

**Outstanding Teaching Assistant Award** May 2016  
 Awarded by Bart Selman in acknowledgement of work as the Head TA of Cornell's CS 4700: Foundations of Artificial Intelligence.

**Heinrich W. Brinkmann Mathematics Prize** May 2015  
 This prize is presented annually by Swarthmore College's Department of Mathematics and Statistics to the student or students who submit the best paper on a mathematical subject. Awarded for "How to Always Win Every Game: Combinatorial Game Theory and the Sprague-Grundy Theorem." Carries a cash prize and the opportunity for an invited talk.

RESEARCH  
EXPERIENCE

**Graduate Research Assistant** September 2017 - present  
 Department of Computer Science,  
 Cornell University  
*Project:* Design, Use & Evaluation of Crowd-Writing Systems  
*Advisor:* Haym Hirsh

**Graduate Research Assistant** August 2015 - May 2019  
 Department of Computer Science,  
 Cornell University  
*Project:* Automated Feedback Tools for Procedural Domains  
*Advisor:* Erik Andersen

**Research Assistant** Summer 2014  
 Institute for Computational and Experimental Research in Mathematics (ICERM),  
 Brown University  
*Project:* Computation and Analysis on Reinhardt Polygons with Multiple Prime Divisors  
*Advisor:* Michael Mossinghoff (Davidson College)

**Research Assistant** Summer 2013  
 Department of Mathematics,  
 Tufts University  
*Project:* Numerical Models for the time-dependent Heat and Stokes' Equations  
*Advisors:* Scott MacLachlan (Memorial University of Newfoundland) and James Adler

TEACHING  
EXPERIENCE

**Lecturer** Fall 2019  
 CS 5306: Crowdsourcing and Human Computation  
 Department of Computer Science,  
 Cornell University

**Head Graduate Teaching Assistant** Spring 2019, Spring 2020  
 CS 4700: Foundations of Artificial Intelligence  
 Instructor: Haym Hirsh  
 Department of Computer Science,  
 Cornell University  
*Awarded an Outstanding Teaching Assistant Award*

**Head Graduate Teaching Assistant** Fall 2018  
 CS 5306: Crowdsourcing and Human Computation  
 Instructor: Haym Hirsh  
 Department of Computer Science,  
 Cornell University

**Head Graduate Teaching Assistant** Summer 2018  
 CS 1110: Introduction to Computing Using Python  
 Instructor: Graeme Bailey  
 Department of Computer Science,  
 Cornell University

	<b>Head Graduate Teaching Assistant</b> CS 1110: Introduction to Computing Using Python Instructors: Erik Andersen and Lillian Lee Department of Computer Science, Cornell University <i>Awarded an Outstanding Teaching Assistant Award</i>	Spring 2017
	<b>Head Graduate Teaching Assistant</b> CS 4700: Foundations of Artificial Intelligence Instructor: Bart Selman Department of Computer Science, Cornell University <i>Awarded an Outstanding Teaching Assistant Award</i>	Fall 2015
	<b>Mathematics Teaching Assistant and Grader</b> Honors Multivariable Calculus and Linear Algebra Instructors: Charles M. Grinstead and Scott Cook Department of Mathematics & Statistics, Swarthmore College	Spring 2012, Fall 2014, Spring 2015
	<b>Computer Science Teaching Assistant</b> Data Structures & Algorithms and Introduction to Computer Science Instructors: Ameet Soni, Joshua Brody and Jeff Knerr Department of Computer Science, Swarthmore College	Fall 2012, Fall 2013
INDUSTRY EXPERIENCE	<b>Research Intern</b> Google Cambridge Education Team	Summer 2019
GRADUATE COURSE WORK	Quantitative Methods I, Educational Technology, Advanced Human Computation, Advanced Programming Languages, Advanced Systems	
SERVICE	External Reviewer, CHI 2020 External Reviewer, DIS WiP 2019 Member, Artifact Evaluation Committee, OOPSLA 2018 <i>Distinguished Committee Member</i> External Reviewer, AfriCHI 2018	
DEPARTMENTAL SERVICE	Committee Member, Gates Hall Space Committee, 2018 - present Graduate Student Reader, Computer Science Department PhD Admissions Committee, 2019 Committee Member, Computing and Information Science Diversity Committee, 2017 - 2019 Co-Organizer, Programming Languages Discussion Group, Cornell University, 2016 - 2019 Colloquium Czar, Cornell University Computer Science, 2016 - 2017 Co-Organizer, Cornell Computer Science Prospective Student Visit Day, 2016	
OUTREACH	Volunteer, Cornell Math Department Elementary School Outreach, 2016 - 2019 Fellow, Cornell Graduate Student School Outreach Program (GRASSHOPR), Spring 2017 Presenter, American Association of University Women (AAUW) TechSavvy, Spring 2017 Co-Leader, Expanding Your Horizons (EYH) workshop, 2016 - 2018 Mentor, Women in Computing at Cornell (WICC), 2016	
MEMBERSHIPS	Member, Swarthmore College Chapter, Phi Beta Kappa Elected, Swarthmore College Chapter, Sigma Xi Member, Association for Computing Machinery (ACM), SIGPLAN, and ACM-W Member, Association for the Advancement of Artificial Intelligence (AAAI)	