

MOLLY Q FELDMAN

CONTACT INFORMATION	445 Gates Hall Department of Computer Science Cornell University Ithaca, NY 14853 http://www.cs.cornell.edu/~molly/	molly@cs.cornell.edu
RESEARCH INTERESTS	Human-computer interaction, educational technology, crowdsourcing and human computation, programming languages	
EDUCATION	Cornell University , Ithaca, NY Ph.D., Computer Science Committee: Haym Hirsh (chair), Ross Tate, François Guimbretière Cornell University , Ithaca, NY M.S., Computer Science Advisor: Erik Andersen Swarthmore College , 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	“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	Outstanding Teaching Assistant Award Awarded by Haym Hirsh in acknowledgement of work as the Head TA of Cornell’s CS 4700: Foundations of Artificial Intelligence. OOPSLA Distinguished Artifact Evaluation Committee Member Awarded in recognition of my contributions to the OOPSLA 2018 Artifact Evaluation Committee. Outstanding Teaching Assistant Award 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 2019 November 2018 May 2017 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

INDUSTRY
EXPERIENCE

Research Intern Summer 2019

Google Cambridge
Education Team

TEACHING
EXPERIENCE

Lecturer Fall 2019

CS 5306: Crowdsourcing and Human Computation
Department of Computer Science,
Cornell University

Head Graduate Teaching Assistant Spring 2019

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

Head Graduate Teaching Assistant Spring 2017

CS 1110: Introduction to Computing Using Python
 Instructors: Erik Andersen and Lillian Lee
 Department of Computer Science,
 Cornell University
Awarded an Outstanding Teaching Assistant Award

Head Graduate Teaching Assistant

Fall 2015

CS 4700: Foundations of Artificial Intelligence
 Instructor: Bart Selman
 Department of Computer Science,
 Cornell University
Awarded an Outstanding Teaching Assistant Award

Mathematics Teaching Assistant and Grader

Spring 2012, Fall 2014, Spring 2015

Honors Multivariable Calculus and Linear Algebra
 Instructors: Charles M. Grinstead and Scott Cook
 Department of Mathematics & Statistics,
 Swarthmore College

Computer Science Teaching Assistant

Fall 2012, Fall 2013

Data Structures & Algorithms and Introduction to Computer Science
 Instructors: Ameet Soni, Joshua Brody and Jeff Knerr
 Department of Computer Science, Swarthmore College

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)