

## MOLLY Q FELDMAN

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CONTACT INFORMATION	442 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>	401-741-8351 <a href="mailto:molly@cs.cornell.edu">molly@cs.cornell.edu</a>
RESEARCH INTERESTS	Educational technology, programming languages, human-computer interaction	
EDUCATION	<b>Cornell University</b> , Ithaca, NY Ph.D., Computer Science <b>Swarthmore College</b> , Swarthmore, PA B.A., Mathematics and Computer Science, elected Phi Beta Kappa Course Work, Budapest Semesters in Mathematics, Spring 2014	August 2015 - Present August 2011 - May 2015
PUBLICATIONS	Molly Q Feldman, Ji Yong Cho, Monica Ong, Sumit Gulwani, Zoran Popović, Erik Andersen. “Automatic Diagnosis of Student Misconceptions in K-8 Mathematics”. <i>Conditionally Accepted to the 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	“Salvaging Student Programs, Automatically” <ul style="list-style-type: none"><li>• Programming Languages Seminar (PLDG), Cornell University, 18 October 2017</li></ul> “Building Better Automated Feedback Solutions” <ul style="list-style-type: none"><li>• Department of Computer Science, Brown University, 22 November 2016</li><li>• Programming Languages Seminar (PLDG), Cornell University, 16 November 2016</li></ul> “PL-based Educational Technology” <ul style="list-style-type: none"><li>• IFIP WG2.8 Meeting XXXIV, Lake Placid, NY, 18 July 2016</li></ul>	
AWARDS	<b>Outstanding Teaching Assistant Award</b> Awarded by Prof. Lillian Lee and Prof. Erik Andersen in acknowledgement of work as the Head TA of Cornell’s CS1110: Introduction to Computing Using Python. <b>Outstanding Teaching Assistant Award</b> Awarded by Prof. Bart Selman in acknowledgement of work as the Head TA of Cornell’s CS4700: Foundations of Artificial Intelligence. <b>Heinrich W. Brinkmann Mathematics Prize</b> This prize is presented annually by Swarthmore College’s Department of Mathematics and Statistic 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.	May 2017 May 2016 May 2015
RESEARCH EXPERIENCE	<b>Graduate Research Assistant</b> Department of Computer Science, Cornell University <i>Area:</i> Automated feedback tools for procedural domains Advisor: Erik L. Andersen, Ph.D. <b>Research Assistant (Summer@ICERM REU)</b> Institute for Computational and Experimental Research in Mathematics (ICERM), Brown University	August 2015 - present Summer 2014

*Project:* “Computation and Analysis on Reinhardt Polygons with Multiple Prime Divisors”  
Advisor: Michael Mossinghoff, Ph.D (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, Ph.D (Memorial University of Newfoundland) and James Adler, Ph.D.

TEACHING EXPERIENCE	<p><b>Head Graduate Teaching Assistant</b> Spring 2017 CS 1110: Introduction to Computing Using Python Instructors: Erik L. Andersen Ph.D. and Lillian Lee Ph.D. Department of Computer Science, Cornell University <i>Awarded an Outstanding Teaching Assistant Award</i></p> <p><b>Head Graduate Teaching Assistant</b> Fall 2015 CS 4700: Foundations of Artificial Intelligence Instructor: Bart Selman, Ph.D. Department of Computer Science, Cornell University <i>Awarded an Outstanding Teaching Assistant Award</i></p> <p><b>Mathematics Teaching Assistant and Grader</b> Spring 2015, Fall 2014, Spring 2012 Honors Multivariable Calculus and Linear Algebra Instructors: Charles M. Grinstead, Ph.D and Scott Cook, Ph.D. Department of Mathematics &amp; Statistics, Swarthmore College</p> <p><b>Computer Science Teaching Assistant</b> Fall 2013 and Fall 2012 Data Structures &amp; Algorithms and Introduction to Computer Science Instructors: Ameet Soni, Ph.D, Joshua Brody, Ph.D. and Jeff Knerr, Ph.D. Department of Computer Science, Swarthmore College</p>
GRADUATE COURSE WORK	Quantitative Methods I, Educational Technology, Advanced Human Computation, Advanced Programming Languages, Advanced Systems
OUTREACH	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 - present Volunteer, Cornell Math Department Outreach, 2016 - Present Mentor, Women in Computing at Cornell (WICC), 2016
SERVICE	Member, Artifact Evaluation Committee, OOPSLA 2018
DEPARTMENTAL SERVICE	Committee Member, Computing and Information Science Diversity Committee, 2017 - present Co-Organizer, Programming Languages Discussion Group, Cornell University, 2016 - present Colloquium Czar, Cornell University Computer Science, 2016 - present Co-Organizer, Cornell Computer Science Prospective Student Visit Day, 2016
MEMBERSHIPS	Member, Swarthmore College Chapter, Phi Beta Kappa Elected, Swarthmore College Chapter, Sigma Xi

Member, Association for Computing Machinery (ACM), SIGCHI, and ACM-W  
Member, Association for the Advancement of Artificial Intelligence (AAAI)

MISCELLANEOUS    *Computational Skills:* Python, C#, Swift, Scheme/Racket, bash, L<sup>A</sup>T<sub>E</sub>X  
*Personal:* Trained in Modern dance and classical Indian dance (Kathak and Odissi)