

MIRANDA C. PARKER

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mirandacparker.com

RESEARCH INTERESTS

I study computer science education, such as exploring how teachers teach, how students learn, and how it all could be improved. I am also interested in the role of privilege in the classroom and how to redistribute privilege to promote a more welcoming learning environment.

EDUCATION

Ph.D. Student, Human Centered Computing Started August 2014
Georgia Institute of Technology, Atlanta, GA
Advisor: Mark Guzdial

Bachelor of Science, Computer Science Graduated May 2014
Harvey Mudd College, Claremont, CA
GPA: 3.2, Major GPA: 3.3

AWARDS AND HONORS

- 2014 1st place, Convergence Innovation Competition, “GT Community and beyond” category
President’s Fellow, Georgia Tech
National Science Foundation Graduate Student Research Fellow
Graduated Harvey Mudd College with Departmental Honors
Don Chamberlin Research Award, Harvey Mudd College
Outstanding Student Leader, Harvey Mudd College
Best Research Presentation, Celebration of Women in Computing, Southern California
Honorable Mention, Computing Research Association’s Outstanding Undergraduate Re-
searcher Award (Female)
- 2013 Deans List, Spring, Harvey Mudd College
Ben Huppe ‘14 Memorial Internship for a Sustainable World, Harvey Mudd College
- 2012 Deans List, Fall, Harvey Mudd College

RESEARCH PUBLICATIONS AND PRESENTATIONS

Papers:

Miranda Parker, Mark Guzdial. “A Critical Research Synthesis of Privilege in Computing Education,” Research on Equity and Sustained Participation in Engineering, Computing, and Technology (RESPECT), Charlotte, NC. August 13-14, 2015.

Miranda Parker, Colleen Lewis. “What Makes Big-O Analysis Difficult: Understanding How Students Understand Runtime Analysis,” Consortium for Computing Science in Colleges, Southwestern Region, CSU Northridge, CA. March 14-15, 2014.

Christine Alvarado, Andy Kearny, Alexa Keizur, Calvin Loncaric, **Miranda Parker**, Jessica Peck, Kiley Sobel, Fiona Tay. “LogiSketch: A Free-Sketch Digital Circuit Design and Simulation System,” Workshop on the Impact of Pen and Touch Technology in Education (WIPTTE), Pepperdine University, CA. March 21-23, 2013.

Posters:

Miranda Parker. “Designing an eBook for Computer Science Principles Students,” International Computing Education Research (ICER) Conference, Omaha, NE. August 9-12, 2015.

Miranda Parker, Colleen Lewis. “Why is Big-O Analysis Hard?,” Koli Calling, Koli, Finland. November 14-17, 2013.

Miranda Parker. “Why is Big-O Analysis Difficult?,” Consortium for Computing Science in Colleges, Southwestern Region, CSU San Marcos, CA. April 6, 2013.

Conference Presentations:

Miranda Parker, Colleen Lewis. “What Makes Big-O Analysis Difficult: Understanding How Students Understand Runtime Analysis,” The Celebration of Women in Computing, Southern California, Carlsbad, CA. April 5, 2014.

Miranda Parker. “Adaptive Sketch-Based Recognition Techniques,” The Celebration of Women in Computing, Southern California, Santa Ana, CA. April 14, 2012.

PUBLIC SPEAKING AND PANELS

Janet Davis, Christine Alvarado, **Miranda C. Parker**, Jennelle Nystrom. “Preparing Undergraduates To Make The Most Of Attending CS Conferences” SIGCSE, Kansas City, MO. March 4-7.

Morgan A. Mastrovich, **Miranda Parker**, Colleen Lewis. “What do you mean it isn’t a meritocracy?” Grace Hopper Celebration of Women in Computing, Phoenix, AZ. October 8-10, 2014.

PROJECTS

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| Spring 2015 | CSTeachingTips.org , <i>Consultant</i> , NSF-funded project, PI: Colleen Lewis |
| Fall 2014 | Sexual Assault Transparency @ Georgia Tech , <i>Team Member</i> , Convergence Innovation Competition |
| Aug. 2013-May 2014 | Intel Corporation sponsored project , <i>Project Manager</i> , Harvey Mudd College |
| Jan. 2013-May 2013 | Pandalgebra , <i>Team Member</i> , Harvey Mudd College |
| June 2012-Aug. 2012 | Zynx Health , <i>Software Engineer Intern</i> , Los Angeles, CA |

TEACHING EXPERIENCE

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| Sept. 2015-Present | Girls Who Code (high school, 8 students), Cristo Rey Jesuit High School Atlanta
Instructor |
| Spring 2015 | Introduction to Media Computation (undergraduate, 110 students), College of Computing, Georgia Tech
Guest Lecturer for Mark Guzdial |
| June 2014-Aug. 2014 | Computer Science 1 (high school, 19 students), SMASH Academy, Stanford University
Instructor |
| Aug. 2012-May 2013 | Data Structures (undergraduate, 80 students per semester), Harvey Mudd College
Tutor and Grader |
| Aug. 2013-May 2014 | Software Development (undergraduate, 64 students per semester), Harvey Mudd College
Tutor and Grader |
| June 2013-Aug. 2013 | HIV/AIDS Prevention Education (village, 1300 individuals), Support for International Change, Arusha, Tanzania
Volunteer Teacher |
| Sep. 2010-Dec. 2012 | Science and Math Lessons (4th and 5th grade, 30 students per semester), Science Bus (a Claremont Colleges STEM Outreach Program), Claremont, CA
Volunteer Teacher |

LEADERSHIP EXPERIENCE

Assistant Vice President, Georgia Tech College of Computing Graduate Student Council
Leader, Graduate Women @ College of Computing, Georgia Tech
First-year PhD Student Mentor, School of Interactive Computing, Georgia Tech
Alumni Admission Ambassador, Harvey Mudd College
Coach, USA Computing Olympiad Training Camp 2015
Resident Advisor and Dorm Mentor, Harvey Mudd College
Treasurer, Association of Computing Machinery-Women's Chapter (ACM-W)
Honor Board Chair and Representative, Harvey Mudd College
President, Science Bus, Claremont Colleges STEM Outreach Program

SELECTED MEDIA

“Two Real Programmers Fix This Sexist Barbie Computer Engineering Book.” Popular Mechanics. Nov. 19, 2014.
URL: <http://bit.ly/1AHLNqn>

“Two Women Fixed This Disturbingly Sexist Barbie Book.” Cosmopolitan Magazine. Nov. 19, 2014. URL:
<http://bit.ly/11yqMEf>