

Catherine Cheng

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5051 Fields Pond Cove
Marietta, GA 30068

EDUCATION

Massachusetts Institute of Technology

Candidate for Bachelor of Science in Mathematics & Civil and Environmental Engineering

Relevant coursework: Single and Multivariable Calculus, Introduction to Computer & Engineering Problem Solving, Physics

GPA: 5.0/5.0

Cambridge, MA

June 2014

George Walton Comprehensive High School

Diploma with honors · GPA (weighted): 4.7/4.0 · SAT: 760 M, 770 CR, 760 W

Marietta, GA

May 2010

EXPERIENCE

Massachusetts Department of Environmental Protection

Intern at the Bureau of Waste Prevention

Boston, MA

June-Aug 2011

- Worked in the Boston office serving as a liaison between municipality leaders and the MassDEP headquarters
- Gathered and compiled a database of companies that recycle target recycling material for MA residents and municipalities
- Completed four case studies of school composting programs in MA for distribution to schools

The Grossman Group

Research Assistant

Cambridge, MA

Jan 2011-present

- Created 6x6 solar cells by soldering wires to silicon wafers and encapsulating them in glass
- Researched and modeled 3D Photovoltaic structures that maximize sunlight conversion to energy
- Created both a miniature model of the structure and the life-size 3D solar structure

Kumon Learning Center

Tutor

Marietta, GA

2009-2010

- Assisted 40+ students with new material and graded problem set packets
- Worked with other Kumon faculty members to help with the grand opening of a new center
- Helped over 15 students advance to higher math and reading levels

MIT EECS Women's Technology Program

Participant

Cambridge, MA

Summer 2009

- Selected as 1 of 40 students to participate in a 4-week summer academic program that focused on hands-on classes, labs, and team-based projects
- Took classes in electrical engineering, computer programming (python), and discrete math
- Presented a research project on the relationship between chaos theory and music to 50 peers and faculty members

Student Conservation Association

National Crew Member

Redwood National Park, CA

Summer 2008

- Conducted restoration projects in a six-man work crew for a month
- Lead the final project of replacing a bridge and fixing nearby erosion problems
- Volunteered a total of 200 hours and restored the entire trail

LEADERSHIP AND ACTIVITIES

Camp Kesem at MIT

Programming Counselor

Spring 2011-present

UA Committee on Sustainability

Vice-Chair

Fall 2010-present

Kappa Alpha Theta Sorority

Member

Fall 2010-present

Four Consulting

Member

Fall 2010-present

Baker Dormitory Executive Board

Recycling Chair

Fall 2010-present

Walton Chamber Music Society

Co-founder, President, Treasurer

2008-2010

Asian American Association

Freshman Representative, Secretary

Fall 2010-present

Atlanta Symphony Youth Orchestra

Violist, Viola Section Representative

2006-2010

SKILLS AND INTERESTS

Technology: Java · Python · Microsoft Office

Language Skills: English · Taiwanese (fluent) · Mandarin (conversational)

General Interests: Swimming · Piano · Viola

AWARDS

National Honors Society (2009-2010) · National Latin Honors Society (2008-2010) · National Merit Finalist (2010) · National AP Scholar (2008-2010)
· International Medusa Mythology Exam: Gold Medal (2009) · Georgia Certificate of Merit (2009) · All State Orchestra Violist (2004-2010)