

Catherine Cheng

MIT Address | 362 Memorial Drive • Cambridge, MA 02139
Permanent Address | 5051 Fields Pond Cove • Marietta, GA 30068
(404) 421-6997 • ccheng14@mit.edu

EDUCATION

Massachusetts Institute of Technology

Candidate for Bachelor of Science in Civil and Environmental Engineering & Mathematics
Relevant Coursework: Engineering Mechanics, Differential Equations, CEE Design, Fluid Mechanics,
Engineering for Sustainability, Linear Algebra, Logistics Systems

Cambridge, MA

GPA: 4.9/5.0

June 2014

George Walton Comprehensive High School

GPA: 4.7/4.0 • SAT: 760 M, 770 CR, 760 W

Marietta, GA

May 2010

EXPERIENCE

MIT Department of Civil and Environmental Engineering

Research Assistant at the Juanes Research Group

Investigate the major physical processes that control leakage of gravity currents through discrete fractures to accurately access the risk of carbon capture and storage. Design and conduct bench-scale experiments, manufacture flow cells, and analyze data obtained from experiments.

Cambridge, MA

Aug 2012-present

Chevron

Environmental Specialist Intern

Provided expertise on environmental stewardship to over 20 field management teams. Developed a process for implementing a new environmental performance technology standard for the entire Mid-Continent Business Unit. Conducted audits of third-party waste sites and Chevron waste facilities to ensure compliance with all internal and external regulations.

Midland, TX

June-Aug 2012

The Technical Institute of Pacioli

Teacher

Developed lesson plans and exams for seven math and science classes for high school students ranging from ages 15-21. Taught students for 25-30 hours a week as a part of the MIT Highlights for High School program.

Crema, Italy

Jan 2012

Massachusetts Department of Environmental Protection

Intern at the Bureau of Waste Prevention

Served as a liaison between municipality leaders and the MassDEP headquarters. Gathered and compiled a database of over 60 companies that recycle target materials for MA residents and municipalities. Completed four case studies of school composting programs for distribution to schools as a guide for future programs.

Boston, MA

June-Aug 2011

LEADERSHIP

Camp Kesem MIT – Summer Intern, Fundraising Coordinator, Programming Counselor

Gathered parent-involvement information from all 37 national chapters to create a National Camp Kesem Parent Guide. Responsible for raising over \$65,000 through writing grants, organizing events, and supervising counselor fundraising efforts.

Asian American Association – Secretary, Founder of Mentoring Program

Organize club events for over 100 members and coordinate meetings for the executive board. Established a mentoring program between MIT mentors and adopted Chinese children in the Boston and Cambridge area.

Walton Chamber Music Society – Co-Founder, President

Founded a community service based chamber music club that placed over 20 students in chamber groups and planned weekly service events at the local nursing home for about 40 residents.

ACTIVITIES

Kappa Alpha Theta Sorority • Baker Executive Board (Recycling Chair, Mentor) • Four Consulting • Atlanta Symphony Youth Orchestra

SKILLS AND INTERESTS

Technology: Java • Python • MATLAB • Microsoft Office

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

General Interests: Swimming • Piano • Viola

AWARDS

Kathleen C. Spicer Scholarship Recipient • Margie Hatfield Scholarship Recipient • National Merit Finalist • National AP Scholar • International Medusa Mythology Exam: Gold Medal • Georgia Certificate of Merit • All State Orchestra Violist