

Beth E. Schaffer

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Education

Massachusetts Institute of Technology *Cambridge, MA* *June 2011*
Candidate for BS in Mathematics, Minor in Economics

Guilderland High School *Guilderland, NY* *June 2007*
4.0 GPA, 1600 SAT, National Merit Finalist, Presidential Scholar

Experience

Consulting Intern at MCG *Summer 2010*

- Wrote statistical opinions on the legitimacy of various Medicare overpayment disputes
- Prepared marketing, exposure, and business development reports for the Board of Directors

Software Engineering Intern at Lavastorm *Summer 2008*

- Wrote functions in python and *Brainscript* for use in *Brain*, a graphical database software
- Experimented with new functionality within *Brain*, in what eventually became a data cleansing library
- Used the third party software, *ChartDirector* to develop advanced graphics and statistics for use in dashboarding and reporting

Art of Problem Solving Worker *Summer 2007*

- Assisted virtual classes for accelerated middle school students
- Wrote problems for and proofread *Intermediate Algebra*
- Compiled MATHCOUNTS® problems into a giant database
- Wrote and \LaTeX ed solutions

Research Science Institute Assistant *Summer 2007*

- Provided technical support with Linux and \LaTeX
- Organized and ran social events
- Proofread scientific papers and evaluated student presentations
- Redesigned the website for more logical navigation

Founder and Director of Mathematical Explorations *Summer 2005*

- Organized a day camp for middle school students specializing in competition math
- Advertised; yielding 14 students
- Obtained all the legal papers necessary and rented a classroom and outdoor area to hold the camp
- Provided a combination of lessons, games, problem sets, practice contests, and other activities

Leadership and Activities

Director of the Harvard-MIT Mathematics Tournament (HMMT) *2008-2010*

- Presided over the largest student-ran math competition in the country
- Organized two competitions: one in November limited to local students and one in February attracting competitors around the nation and overseas

Director of Delve *2008-2009*

- Directed Delve, a program that allows high school students to take AP courses taught by MIT students
- Recruited and interviewed teachers, and provided them with ongoing support
- Taught AP Economics (Micro and Macro) with another MIT student

Captain of Albany Area Math Circle (AAMC) *2005-2007*

- Ran three hour weekly meetings for high school students throughout the extended area to work on problem solving and preparing for competitions together
- Organized competition sign ups, food and beverages at meetings, carpools, and keeping members on task
- Took part, either individually or as a team, in AMC, AIME, NYSML, ARML, HMMT, PUMaC, USAMTS

MATHCOUNTS Coach *2004-2007*

- Trained students for chapter and state competitions by teaching mini-lessons and going over old problems
- Team placed 1st in the state (New York) in 2007 with 3 of my students going on to the national competition

Technical Skills

Python, MySQL, SAS, RAT-STATS, HTML/CSS, \LaTeX , Scheme, Windows/Mac/Linux