

Gabrielle Ewall

1000 Olin Way
Needham, MA
631.662.5577
Gabrielle.Ewall@students.olin.edu

Education

- **OLIN COLLEGE**
Needham, MA, United States
Engineering with Neuroscience BS
Candidate, May 2017
- **COLD SPRING HARBOR HIGH SCHOOL**
Cold Spring Harbor, NY
June 2013

Relevant Projects

- Designed and taught mathematics curriculums to third and fourth graders
- Work on proposal for curriculum innovation framework at Olin
- Assisted in engineering lessons in kindergarten classrooms at John F Kennedy Elementary School
- Created a first iteration of a video-game to teach children programming in python
- Writing Grant Proposal for Hearth, a nonprofit devoted to ending elderly homelessness
- Coordinated a speaking engagement with Kennedy Odele of Shining Hope for Communities at Cold Spring Harbor High School. Raised funds necessary for an honorarium. Set the groundwork for an ongoing relationship between the organization and the high school.

Professional Experience

- **NEUROSCIENCE RESEARCH** Feb 2011 - Aug 2013
Stephen Shea. Cold Spring Harbor Laboratories.
Huntington, NY United States
Research Intern.
Research on how Rett Syndrome affects critical periods on a cellular and molecular level. Work included running histological and behavioral assays and writing matlab scripts to identify cells in images of tissue.
- **NEUROSCIENCE RESEARCH** June 2014 - ongoing
Paul Ruvolo. Olin College. Needham, MA United States
Research Intern.
Research on understanding working memory through the lens of optimal control theory. Work involved modeling working memory tasks with reinforcement learning algorithms.
- **EDUCATION RESEARCH** Sept 2014 - ongoing
Mallory Chua. Purdue University. Needham, MA United States
Quantitative Research Head.
Research on learning style distributions at Hacker School using bayesian inference techniques.
- **EXTERNAL RELATIONS** Sept 2014 - ongoing
Sharon Breitbart. Olin Collaboratory. Needham, MA United States
Tour Guide.
I speak to administrators from other educational institutions as well as policy makers, who visit Olin to learn about our model and experiences.

Skills

- **PROGRAMS** Matlab, Python, LaTeX, LT Spice, Adobe Indesign, Adobe Photoshop, Adobe Illustrator
- **LAB WORK** Immunohistochemistry, Behavioral Assays, Image Processing
- **QUANTITATIVE ANALYSIS** Dynamic Modeling in Matlab, Reinforcement Learning Implementation, Bayesian Analysis