

William R. Howard Matchen

bmatchen@gmail.com | (914)-400-9860 | wrhm.github.io | U.S. Citizen

Education

- Carnegie Mellon University Class of 2017
 - Bachelor of Science in Physics - Computational Track
 - Minor in Computer Science

Coursework

- Carnegie Mellon University
 - *Graph Theory*
 - *Probability Theory and Random Processes*
 - *Great Theoretical Ideas in Computer Science*
 - *Matrices and Linear Transformations*
 - *Advanced Computational Physics*
 - *Quantum Physics*
 - *Numerical Methods*
- Coursera
 - Machine Learning* - Implemented Neural Networks, SVM's, PCA, Anomaly Detection and Recommender Systems. **Summer 2015**
 - Gained knowledge of the Octave/Matlab languages.

Skills

- Programming Languages: Proficient in Python, C; Some experience in HTML/CSS, Java, Processing
- Fluent in Spanish

Research Experience

- Software Consultant for Disney Research **Summer 2015**
 - Developed Python scripts to parse email databases for emoticon usage.
 - Analyzed social interactions in corporate hierarchy. Work was mostly self-taught.
 - Learned to work with large datasets and multiple software libraries.

Activities

- Carnegie Mellon University
 - Alpha Epsilon Pi Fraternity - Alpha Kappa Chapter
 - Community Service Chair **2014**
 - Philanthropy Chair **2014**
 - Chabad In-House Coordinator **Fall 2014-Present**
 - Meet weekly with local family to plan, prepare, and serve meals to groups of more than thirty people.
 - Board Member of Jewish Students Association **2014**
 - Musical Director / Recruitment Chair of C#, an a cappella **Fall '13 - Fall '14**
 - Volunteer for 1000Plus **Fall 2013 - Present**
 - Twice-annual event that engages Carnegie Mellon students in over one thousand person-hours of assisting local groups in need.

Honors

- Thomas J. Watson Memorial Scholarship Recipient **2013 - 2017**