

# William R. Howard Matchen

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## 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 2013 - Fall 2014**
  - 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**