Sarah Lau Hale

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EDUCATION

HARVEY MUDD COLLEGE
BS in Physics & Computers
May 2018 | Claremont, CA
High Distinction
Departmental Honors

SKILLS

Machine Learning • Deep Learning
Research • Software Development
Programming Languages:
C++ • Rust • Python • Keras
Bash/shell • Java • Scala
MATLAB • Mathematica
JavaScript • HTML • CSS

LINKS

LinkedIn:// **slhale**
Github:// **slhale**

COURSEWORK

Artificial Intelligence
Machine Learning
Neural Networks
Computer Systems
Data Structures and Program Development
Computational Methods in Physics
Fourier Series and Boundary Value Problems

AWARDS

2018 - National Science Foundation GRFP Honorable Mention
2017 - Summer Undergraduate Research Fellow
2014 - National Merit Scholarship
2014 - Andria Erzberger Physics Scholarship

EXPERIENCE

ETSY | Machine Learning Engineer
July 2019 – Current | Brooklyn, NY
Working in the **Advanced Machine Learning Systems** group within the Data Science team on projects improving Etsy search and recommendations.

GOOGLE | Software Engineer Intern
May 2018 – Aug 2018 | Mountain View, CA
Worked on the **Dynamic Search Ads' Quality** team to improve the precision and recall of the query/advertisement matching model.

GOOGLE | Engineering Practicum Intern
May 2016 – Aug 2016 | New York, NY
Facilitated addition of new sources of data to local search on **Google Maps** by creating an internal pipeline written in C++ to transform open government data for use in Maps.

NASA | Software Engineer Intern
Jun 2015 – Aug 2015 | Mountain View, CA
Developed for **Open MCT**, a web-based data visualizer intended for mission control usage.

RESEARCH

COLUMBIA UNIVERSITY | Dean's Fellow
Aug 2018 - May 2019 | New York, NY
Worked on applying deep learning to measuring cosmological parameters in simulated weak lensing maps.

LIGO | Undergraduate Research Fellow
Jun 2017 – May 2018 | Caltech & Harvey Mudd College
Personally developed a deep learning gravitational wave classifier prototype which can distinguish simulated gravitational waves from transient noise with >99% accuracy.

SOUTH POLE TELESCOPE | Undergraduate Researcher
Sep 2016 – May 2017 | Harvey Mudd College
Analyzed calibration data from the South Pole Telescope to ensure the telscope was sensetive enough to study the cosmic microwave background radiation.

KAPAO | Undergraduate Researcher
Sep 2015 – May 2017 | Pomona College
Developed software for the Pomona Adaptive Optics team to analyze telemetry data and choose observation targets.

LEADERSHIP

PRISM | Mentor
Aug 2017 – May 2018 | Harvey Mudd College
Lead a small group of first-year Harvey Mudd students in bonding activities and events to acclimate them to the LGBTQA+ community at Mudd.

PRISM | Treasurer
Aug 2017 – May 2018 | Harvey Mudd College
Handled budget of over $3,000 and attended weekly administrative and event planning meetings, as well as the events planned at those meetings.

EAST DORM | Treasurer
Jan 2016 – May 2018 | Harvey Mudd College
Handled budget of over $4,000 and gave presentations at dorm meetings.