

JOHN MERRIMAN SHOLAR

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EDUCATION

- Stanford University**, Stanford, California *Sep 2014 - Jun 2019 (expected)*
B.S. in Computer Science, Concentration in Artificial Intelligence, GPA 3.96
M.S. in Computer Science, Concentration in Artificial Intelligence, GPA 3.97
- Kwajalein High School**, Kwajalein, Republic of the Marshall Islands *Aug 2010 - May 2014*
Valedictorian; GPA: 4.00; ACT: 36; SAT: 2380

WORK EXPERIENCE

- Facebook**, Software Engineering Intern *Fall 2018 (Ongoing)*
 - Designing and implementing infrastructure to support machine learning at scale (FBLearner).
- Two Sigma**, Quantitative Research Intern *Summer 2017 & 2018*
 - Researched predictors for returns on equities; implemented models based on these predictors.
 - Predictors utilized novel approaches to earnings effects (2017) and factor modeling (2018).
- Citadel**, Software Engineering Intern *Summer 2016*
 - Designed and implemented desktop application to display proprietary fixed income metrics.
- Quantcast**, Software Engineering Intern *Summer 2015*
 - Designed and implemented web application to view status of services across multiple datacenters.
- Stanford University**, Course Assistant *Sep 2015 - Present*
 - Taught and mentored students in introductory CS and EE classes (CS106A, CS 106B, EE103).
 - Held weekly sections, led office hours, and graded assignments and exams.

INDEPENDENT PROJECTS & RESEARCH

- Low-Density Parity Constraints for Hashing-Based Discrete Integration** *Jan 2018 - Mar 2018*
 - Analysis and extension of eponymous paper by Ermon et. al. under Stefano Ermon.
- Cloud Detection in Satellite Images**, Computer Vision Capstone Project *Mar 2017 - Jun 2017*
 - Designed and implemented a deconvolutional neural network architecture to identify cloud cover in satellite imagery. Model outperforms existing classifiers with no loss in speed.
- Headline-Article Stance Detection**, Natural Language Processing Capstone Project *Jan 2017 - Mar 2017*
 - Designed a series of Long-Short-Term-Memory (LSTM) models with attention components for headline-article stance detection - a first step towards automated detection of fake news.
- Court SMS**, Code the Change (Philanthropic Programming Projects) *Jan 2015 - Jun 2015*
 - Lowered rates of court absence in Santa Clara county by implementing a web interface allowing courts to schedule text messages to remind citizens of their court dates.

COURSEWORK

Completed Coursework:

- Machine Learning** Theoretical Machine Learning, NLP, Computer Vision, Probabilistic Graphical Models
Statistics Probability, Statistical Inference, Regression Models and Analysis of Variance
Mathematics Real Analysis, Information Theory, Convex Optimization I and II, Linear Dynamical Systems
Computer Science Computer Networking, Computer Security, Cryptography, Teaching Computer Science

Upcoming Coursework:

Stochastic Processes, Statistical Learning Theory, Graduate Applied Statistics, Graduate Theory of Statistics

HONORS

- Boothe Prize for Excellence in Freshman Year Writing, Stanford University
- Presidential Scholar, Department of Education Presidential Scholars Program
- National Merit Scholar, National Merit Scholarship Program
- Student Leadership Exchange Scholar, National Committee on United States-China Relations
- Eagle Scout, Boy Scouts of America

HOBBIES

Competitive swimming, musical theater, Jeopardy, a cappella music