

# Shayan Sadigh

<https://shayanpersonal.github.io> | [ssadigh@ucsb.edu](mailto:ssadigh@ucsb.edu)  
Deep Learning | AI | Machine Learning

## EDUCATION

### UC SANTA BARBARA

#### MS IN COMPUTER SCIENCE

June 2018 | Santa Barbara, CA

Cum. GPA: 3.8/4.0

#### BS IN COMPUTER SCIENCE

June 2017 | Santa Barbara, CA

College of Engineering

Dean's List (9x)

Cum. GPA: 3.6 / 4.0

Upper-Div GPA: 3.9 / 4.0

## LINKS

Github:// [shayanpersonal](#)

LinkedIn:// [shayansadigh](#)

## COURSEWORK

### GRADUATE

Deep Learning

Parallel Programming

Computational Geometry

Cryptography

Knowledge Bases

Information Theory

Mobile Computing

### UNDERGRADUATE

Artificial Intelligence

Computer Networks

Computer Vision

Data Structures and Algorithms

Databases

Distributed Systems

Operating Systems

Security

Theory of Computation

### ONLINE

UCL's Reinforcement Learning

Stanford's CNNs for Vision

EPFL's Neuronal Dynamics

## SKILLS

### PROGRAMMING

Over 10,000 lines:

Python • C

Over 1,000 lines:

C++ • JavaScript

Familiar:

Bash • Java • Android • MySQL •

x86 • C# • Ruby • MATLAB • HTML

## RESEARCH

### UCSB MIRAGE LAB | GRADUATE DEEP LEARNING RESEARCHER

Jan 2018 – Present | Santa Barbara, CA

Proposed, developed, and researched Checkered Subsampling, a new technique for improving the spatial capacity of feature maps in neural networks, under the advice of Pradeep Sen. Significantly improves performance of all CNNs in CIFAR10/100.

Submitting to NIPS 2018.

### KAGGLE | TOP 10 COMPETITOR

Sep 2017 – Dec 2017

Developed LSTM / CNN / Attention model for threat detection on 3D millimeter wavescans for \$1.5 Million Passenger Screening Algorithm Challenge sponsored by the Department of Homeland Security. Won 10th place and gold medal, presented findings to UCSB Four Eyes Lab. Of top 10 winners, wrote the most efficient solution.

## EXPERIENCE

### UC SANTA BARBARA | TEACHING ASSISTANT

March 2018 – June 2018 | Santa Barbara, CA

- Graded student work, held meetings, and answered questions for CS176A: Introduction to Computer Networks.

### PALO ALTO NETWORKS | SOFTWARE ENGINEERING INTERN

June 2017 – Sep 2017 | Santa Clara, CA

- Developed tools in Python and C to interpret PCAPNG packet captures.
- Redesigned lab from scratch. Set up subnets, routes, and racked devices.

### THERMO FISCHER SCIENTIFIC | SOFTWARE ENGINEERING INTERN

Nov 2016 – Jan 2017 | Santa Barbara, CA

- Developed new installers in C# for Hyperion Scanning Probe Microscope.
- Developed system backup and restore procedures for new Hyperion system.

### UCSB BRAIN INITIATIVE | LEAD WEB DEVELOPER

Sep 2015 – June 2016 | Santa Barbara, CA

- Planned and developed website for new UCSB research group.
- Wrote all backend logic (Node.js), much of frontend (HTML/CSS/Javascript).

## ACTIVITIES

2016 - Present	Various deep learning projects, uploaded to Github.
2015 - Present	Leader of Dance Dance Revolution club at UCSB.
2018	Deep learning for NLP paper reading group.
2018	Network science paper reading group.
2017	Member of UCSB Hacking Club.
2016	Developed and published GauchoMap (300+ users).
2016	Discovered and reported major web exploits on Piazza.com.

## AWARDS

2018	Top 10 & gold medalist in \$1.5 Million Passenger Screening Algorithm Challenge
2017	Glenn Culler Scholarship Recipient
2017	Top 858 / 25289 in Google Code Jam, Qualification Round