

Zachary Barnes

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EDUCATION

STANFORD UNIVERSITY

Palo Alto, CA
Expected Spring 2018

MS IN COMPUTER SCIENCE

Artificial Intelligence
GPA: 3.93

UNIVERSITY OF PITTSBURGH

Pittsburgh, PA
April 2016

BENG IN COMPUTER ENGINEERING

Robotics/Systems
GPA: 3.98

OVERVIEW

Artificial Intelligence
Machine Learning
Deep Learning
Databases

Python
Java
C
SQL

Goldwater Scholar
Health Innovators Fellowship
University Scholar (top 2%)
NSF REU Fellowship

Site:// zabarnes.github.io
GitHub:// [zabarnes](https://github.com/zabarnes)
LinkedIn:// [zabarnes1](https://www.linkedin.com/in/zabarnes1)

EXPERIENCE

STANFORD UNIVERSITY

Sep 2017 - Dec 2017 | Palo Alto, CA

AI COURSE TEACHING ASSISTANT

Prof. Percy Liang

- Help build content for HW and exams, and assist students in OH and by leading sections on course material.
- Concepts: Machine learning, Search Problems, Constraint Satisfaction, Bayesian Networks, Software Implementation

RIOT GAMES

June 2017 - Sep 2017 | Los Angeles, CA

DATA SCIENCE INTERN

- Built pipeline and trained **deep reinforcement learning AI** able to beat current state-of-the-art bots for League of Legends.
- Helped build merchandise customer segmentation for targeted advertising and merchandise planning.
- Helped build and ship a customer churn prediction model used in customer targeting.

JOHNS HOPKINS UNIVERSITY

May 2015 - Sep 2015 | Baltimore, MD

MACHINE LEARNING RESEARCH INTERN

Suchi Saria Lab

- Development of **clinician-facing web app** using a subtyping machine learning model to predict patient lung function.
- Placed **2nd** in JHU SRE competition.

UNIVERSITY OF CALIFORNIA-SAN DIEGO

May 2014 - Aug 2014 | San Diego, CA

MOBILE ROBOTIC SYSTEMS RESEARCH INTERN

Kastner Lab

- Development of a mobile aerial platform for remote tracking using digital signal processing and software defined radio.
- Work **published** in the 2014 IEEE International Conference on Mobile Ad hoc Sensor Systems.

SCRIPPS INSTITUTE

May 2013 - Aug 2013 | San Diego, CA

SOFTWARE ENGINEERING INTERN

- Built and shipped a **web application** with an SVM as a filter for fast human-in-the-loop classification of images.

LEADERSHIP

DESIGNHUB

Mar 2013 - Apr 2016

CO-FOUNDER

- Helped create **200+ student organization** delivering innovative student solutions for physician and industry partners.

PUBLICATIONS

Santos, Gilberto, **Zachary Barnes**, Ryan Kastner et al. "Small Unmanned Aerial Vehicle System for Wildlife Radio Collar Tracking." In Mobile Ad Hoc and Sensor Systems (MASS), 2014 IEEE 11th International Conference on, pp. 761-766. IEEE, 2014.