

Adam Villaflor

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<https://github.com/avillaflor>

<https://avillaflor.github.io>

EDUCATION

University of California, Berkeley

Aug. 2014 – May 2018

- Graduated with BA in Computer Science with High Distinction in General Scholarship (GPA 3.94) in May 2017
- Currently in EECS 1 year MS program

EXPERIENCE

Berkeley Artificial Intelligence Research (BAIR) Lab Researcher, *University of California, Berkeley*

Fall 2016 – Present

- Work on developing deep reinforcement learning methods and algorithms that can be implemented in real-world systems and robots, with a specific focus on sample efficiency, robot safety, and self-supervised learning
- Second authored two papers
- Currently leading project that will lead to first author paper in Spring 2018
- Work under PhD student Gregory Kahn, and Professors Pieter Abbeel and Sergey Levine

Teaching Assistant for CS189 (Introduction to Machine Learning), *University of California, Berkeley*

Spring 2017

- Help manage a 500+ student undergraduate/graduate machine-learning course
- Teach students how to implement fundamental machine-learning algorithms, as well as the mathematical and statistical intuition behind those algorithms
- Algorithms covered include SVM, QDA, Random Forests, Neural Networks, etc.

Developer Program Engineer Intern, *Google (Google Cloud Platform DPE Team)*

Summer 2016

- Created a distributed LSTM with batch normalization that can be used to generate its own novel text as a sample for Google's new scalable machine-learning platform Cloud ML
- Reported bugs to the Cloud ML team and worked with the tech writers to improve the documentation and user experience for Cloud ML

Software Engineer Intern, *3D Robotics*

Fall 2015 – Spring 2016

- Worked on the backend for the DroneKit Cloud service that allows users to upload drone flight logs (dataflash and telemetry) and other forms of media related to a flight
- Wrote Scala code with the Akka framework to authenticate and direct data to and from Amazon Web Services (AWS) such as Elasticsearch, allowing analysis of flight logs and other media data

Process and Manufacturing Engineer Intern, *Solid Concepts (now Stratasys Direct)*

Summer 2013

- Wrote Python code to extract and analyze ten years of calibration data stored in Excel

PUBLICATIONS

- "Uncertainty-Aware Reinforcement Learning for Collision Avoidance"

Feb. 2017

Gregory Kahn, Adam Villaflor, Vitchyr Pong, Pieter Abbeel, Sergey Levine

- "Self-Supervised Deep RL with Generalized Computation Graphs for Robot Navigation"

Sep. 2017

Gregory Kahn, Adam Villaflor, Bosen Ding, Pieter Abbeel, Sergey Levine

[Under review for ICRA 2018]

SKILLS/HOBBIES

- Proficient with Tensorflow, ROS, Akka, Python, Java, C, Matlab, C++, and Scala
- Play club Ultimate Frisbee at UC Berkeley