

Adam Villaflor

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EDUCATION

Carnegie Mellon University

Fall 2018 – Present

- PhD student in the Robotics Institute as part of Argo AI Center
- Advised by Professors Jeff Schneider and John M. Dolan

University of California, Berkeley

Fall 2014 – Spring 2018

- MS in Electrical Engineering and Computer Science (GPA 4.0)
- BA in Computer Science with High Distinction in General Scholarship (GPA 3.94)

EXPERIENCE

BAIR Lab Undergraduate Researcher, *University of California, Berkeley*

Fall 2016 – Spring 2018

- Advised by Professors Pieter Abbeel and Sergey Levine
- Researched Off-Policy RL for an autonomous RC car with PhD mentor Gregory Kahn

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

Summer 2016

- Created a LSTM demo that can be used to generate its own novel text for Google's new scalable machine-learning platform Cloud ML

Software Engineer Intern, *3D Robotics*

Fall 2015 – Spring 2016

- Worked on the backend for the DroneKit Cloud service

PUBLICATIONS

- Villaflor, Adam, Zhe Huang, Swapnil Pande, John M. Dolan, and Jeff Schneider. "Addressing Optimism Bias in Sequence Modeling for Reinforcement Learning." In ICML 2022.
- Char, Ian, Viraj Mehta, Adam Villaflor, John M. Dolan, and Jeff Schneider. "BATS: Best Action Trajectory Stitching." In NeurIPS Offline RL Workshop 2021.
- Killing, Christoph, Adam Villaflor, and John M. Dolan. "Learning to Robustly Negotiate Bi-Directional Lane Usage in High-Conflict Driving Scenarios." In ICRA 2021.
- Villaflor, Adam, John Dolan, and Jeff Schneider. "Fine-Tuning Offline Reinforcement Learning with Model-Based Policy Optimization." In NeurIPS Offline RL Workshop 2020.
- Triest, Samuel, Adam Villaflor, and John M. Dolan. "Learning Highway Ramp Merging Via Reinforcement Learning with Temporally-Extended Actions." In IEEE IV 2020.
- Kahn, Gregory*, Adam Villaflor*, et al. "Composable action-conditioned predictors: Flexible off-policy learning for robot navigation." In CoRL 2018.
- Kahn, Gregory, Adam Villaflor, et al. "Self-supervised deep reinforcement learning with generalized computation graphs for robot navigation." In ICRA 2018.
- Kahn, Gregory, Adam Villaflor, et al. "Uncertainty-aware reinforcement learning for collision avoidance." Preprint 2017.