Adam Villaflor

avillaflor@cmu.edu ♦ https://scholar.google.com/citations?user=Vlfz-_IAAAAJ

EDUCATION

Carnegie Mellon University   Fall 2018 – Present
- Working on PhD at 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.