

Maxim Egorov

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Education

2017	Stanford University, M.S., Aeronautics and Astronautics Focus on Artificial Intelligence and Machine Learning	GPA: 3.84/4.00
2013	University of California, Berkeley, B.S. Physics Highest Honors in Physics	GPA: 3.86/4.00

Experience

2017-	Machine Learning Consultant, CureSeq Inc. <ul style="list-style-type: none">Using deep learning to accelerate cancer drug discovery
2014-2017	Research Assistant, Stanford Intelligent Systems Lab <ul style="list-style-type: none">Developed scalable algorithms for learning and decision making in multi-agent systemsMentored high-school and undergraduate students on machine learning projectsLed lab meetings and literature reviews on deep learning and reinforcement learning
2014	Engineering Intern, Exa Corp. <ul style="list-style-type: none">Built automation and modeling tools for computational fluid dynamic analysis
2011-2013	Research Assistant, Lawrence Berkeley National Lab <ul style="list-style-type: none">Led the design, calibration and data analysis efforts for the NEXT neutrino detector

Selected Projects

POMDPs.jl: Algorithms for decision making under uncertainty in Julia [Github](#)

- Creator and primary maintainer, issue tracking, algorithm development and implementation

MADRL: Multi-agent deep reinforcement learning in Python [Github](#)

- Developed multi-agent extensions of popular deep reinforcement learning algorithms (DQN, TRPO, DDPG)

Chimp: Flexible deep reinforcement learning in Python [Github](#)

- Developed a deep reinforcement learning framework that works with partially observable environments

Selected Publications

- » J. Gupta, **M. Egorov**, and M. Kochenderfer, "Cooperative Multi-Agent Control Using Deep Reinforcement Learning", in *AAMAS Workshop on Adaptive Learning Agents*, 2017.
- » **M. Egorov**, Z. Sunberg, E. Balaban, T. Wheeler, J. Gupta, and M. Kochenderfer, "POMDPs.jl: A framework for sequential decision making under uncertainty", *Journal of Machine Learning Research*, 2017.
- » **M. Egorov**, M. Kochenderfer, and J. Uudmae, "Target Surveillance in Adversarial Environments Using POMDPs", in *AAAI Conference on Artificial Intelligence (AAAI)*, 2016.

Awards

Adaptive Learning Agents Best Paper Award, 2017	AHPCRC Best Student Project, 2016
UC Berkeley Laslett Scholarship, 2013	UC Berkeley William Glenn Homan Scholarship, 2013

Skills

Languages: C++, Python, Julia, Matlab. **Tools:** git, shell, \LaTeX . **Tech:** TensorFlow, Theano, Scikit-learn.