

AREC JAMGOCHIAN

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EDUCATION

Ph.D. in Aeronautics and Astronautics w/ Minor in Computer Science ~2023
M.S. in Aeronautics and Astronautics June 2020
Stanford University, Stanford, CA, USA GPA: 3.99/4.00
Advisor: Mykel Kochenderfer, Emphasis: AI, Robotics
B.S. in Mechanical Engineering w/ Minor in Int'l. Eng., Summa Cum Laude May 2016
B.S. in Physics, Magna Cum Laude May 2016
University of Maryland, College Park, MD, USA GPA: 3.98/4.00

SELECTED GRADUATE COURSEWORK

AI: *Machine Learning, Perception, Generative Models, Decision Making, Optimization, Graphs*
Robotics: *Robotic Autonomy, Optimal Control, State Estimation, Dynamics, Multi-Robot Control*

SKILLS

Programming Languages Proficient: Python, Julia, MatLab, C/C++
Knowledgeable: Bash, Java, HTML/CSS, JavaScript, Mathematica
Frameworks ROS (*proficient*), PyTorch (*proficient*), TensorFlow (*knowledgeable*)

WORK AND RESEARCH EXPERIENCE

- Graduate Researcher, Stanford Intelligent Systems Lab** Sep 2018 - Present
- Conducting research on the design of robust decision-making systems using techniques from reinforcement learning, controls, and optimization.
- Teaching Assistant, Stanford University** Jan 2022 - Present
- Head TA for Advanced Sequential Decision-Making (AA229/CS239 W22)
- Autonomous Vehicle Software Intern, Renault-Nissan-Mitsubishi** Jun 2019 - Sep 2019
- Implemented scalable decision-making logic leveraging POMDPs on an autonomous vehicle.
- Flight Engineer, Systems Engineering Group, Inc.** Jun 2016 - Jun 2018
- Modeled and simulated launch-to-impact rocket dynamics with high fidelity.
 - Implemented optimization and machine learning algorithms to improve a variety of processes.
- Researcher, NIST Thermodynamic Metrology Group** May 2013 - Aug 2014
- Worked in the development of next-generation photonic temperature and pressure sensors.
- Researcher, MD Center for Fundamental Physics** May 2011 - Aug 2012
- Assisted in theorizing and enumerating the behavior of certain limits of Quantum Chromodynamics.

LEADERSHIP EXPERIENCE

- **Community Assistant**, Rains Graduate Housing Community June 2019 - Present
- **Treasurer**, Stanford Armenian Student Association June 2019 - Present
- **Controls Working Group Leader**, Systems Engineering Group, Inc. Mar 2017 - Jun 2018
- **President**, UMD Armenian Student Union Sep 2013 - May 2016
- **Vice President**, UMD Society for Physics Students Sep 2013 - May 2014

AWARDS

- Hive Ventures 30 Under 30 Armenians in Tech July 2020
- National Science Foundation Graduate Research Fellowship (Stanford) Apr 2019
- RISE Engineering Leadership Citation (UMD) May 2016
- Honors College Citation (UMD) May 2014
- Banneker-Key Scholarship (4-years, UMD) Sep 2012