PEIDE HUANG

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EDUCATION

Carnegie Mellon University September 2020 - Present
M.S. in Machine Learning
Ph.D. in Mechanical Engineering *Pittsburgh, PA, US*
Academic advisors: Prof. Ding Zhao in SafeAI Lab, Prof. Fei Fang in AI and Social Good Lab

Stanford University September 2018 - April 2020
M.S. in Mechanical Engineering (Robotics), GPA: 3.9/4.0 *Stanford, CA, US*

Nanyang Technological University, Singapore September 2014 - May 2018
B.E. in Aerospace Engineering with Highest Distinction, GPA: 4.9/5.0 *Singapore*

INTERNSHIP EXPERIENCE

Flexiv Robotics Ltd. June 2019 - September 2019
System Engineer *California, US*

- Established a new experimental software and hardware framework to expedite the prototyping and testing procedure of products in development. Developed a multi-threaded inter-process communication software library to achieve more robust and faster communication between middleware modules.
- Coordinated with senior engineers and managers to ensure smooth integration of the new framework into the R&D department. Constructed a standard operating procedure for the experimental setup.

Agency for Science, Technology and Research, Singapore January 2017 - June 2017
Research Assistant *Singapore*

- Designed and develop a variable footprint, omni-directional mobile robotic platform that can change the morphology for increased stability or compactness in response to the task requirements.
- Communicated with the supervisor and managed the project timeline, budgeting and deliverables.

LEADERSHIP EXPERIENCE AND HONORS

NTU Robotics Club Co-founder and Vice President
NTU President Research Scholar with Distinction Recipient of Year 2016
CMU 24677 Modern Control Theory Head of Teaching Assistants
Student Travel Award ICLR 2021
National Kidney Foundation, Singapore Volunteer and events organizer

SELECTED PUBLICATIONS *: EQUAL CONTRIBUTION

- **Huang, P. ***, Shi, L. *, Chen, R. * (2021). "Latent Goal Allocation for Multi-Agent Goal-Conditioned Self-Supervised Learning." Submitted to NeurIPS 2021 Bayesian Deep Learning Workshop.
- Xu, M., **Huang, P.**, Li, F., Zhu, J., Qi, X., Oguchi, K., ... & Zhao, D. (2021). "Accelerated Policy Evaluation: Learning Adversarial Environments with Adaptive Importance Sampling." ICLR 2021 Workshop on Security and Safety in Machine Learning Systems.

SELECTED COURSES

Business: Principles of Economics, Marketing for the 21st Century, Fundamentals of Business Law, Operation Research, Enterprise and Innovation, Engineering Communication, Ethics and Moral Reasoning
Artificial Intelligence: Data Science and Machine Learning, Probability and Mathematical Statistics, Deep Learning, Decision Making Under Uncertainty, Probabilistic Graphical Models, Convex Optimization, Robotic Autonomy, Deep Reinforcement Learning, Advanced ML and Game Theory.