

Hai NGUYEN

Northeastern University

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website: <https://hai-h-nguyen.github.io/>

EDUCATION

Northeastern University (NEU), USA	2019 - Present
Doctor of Philosophy in COMPUTER SCIENCE	
Supervisors: Prof. Robert Platt , Prof. Christopher Amato	
University of Southampton (UoS), UK	2016-2017
Master of Science in UNMANNED AIRCRAFT SYSTEMS DESIGN	
Hanoi University of Science and Technology (HUST), Vietnam	2007-2012
Bachelor of Science in CONTROL AND AUTOMATION ENGINEERING	

WORK EXPERIENCES

Embedded Software Engineer, Viettel Aerospace Institute, Vietnam	2012-2016 & 2017-2018
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RESEARCH INTERESTS

My research focuses on uncertainty modeling, reinforcement learning, and their applications to robot manipulation. I aim to build compact and robust models of the world to decision making under partial observability.

PUBLICATIONS

Zhihan Yang*, **Hai Nguyen***. “Recurrent Off-policy Baselines for Memory-based Continuous Control”, *NeurIPS: Deep Reinforcement Learning Workshop*, 2021

Hai Nguyen*, Brett Daley*, Xinchao Song, Christopher Amato, Robert Platt. “Belief-Grounded Networks for Accelerated Robot Learning under Partial Observability”, *The 4th Conference on Robot Learning (CoRL)*, 2020

Hoang-Dung Bui*, **Hai Nguyen***, Hung Manh La, Shuai Li. “A deep learning-based autonomous robot manipulator for sorting application”, *The Fourth IEEE International Conference on Robotic Computing (IRC)*, 2020

Hai Nguyen, Xinchao Song, Christopher Amato, Robert Platt. “Imitation Learning in POMDPs with Contacts”, *Robotics: Science and Systems (RSS): Reacting to Contact Workshop*, 2020

Hai Nguyen, Hung La. “Review of deep reinforcement learning for robot manipulation”, *The 3rd IEEE International Conference on Robotic Computing (IRC)*, 2019

Adarsh Sehgal, Hung La, Sushil Louis, **Hai Nguyen**. “Hindsight Experience Replay With Experience Ranking”, *Joint IEEE 9th International Conference on Development and Learning and Epigenetic Robotics (ICDL-EpiRob)*, 2019

Hai Nguyen, Hung La. “Deep reinforcement learning using genetic algorithm for parameter optimization”, *The 3rd IEEE International Conference on Robotic Computing (IRC)*, 2019

AWARDS

Chevening Scholarship, British Foreign and Commonwealth Office (2% acceptance rate)	2016
IMechE UAS 2016 Challenge - Runner-up	2017
IMechE UAS 2016 Challenge - Navigation Accuracy Award	2017
Graduate Dean’s Merit Scholarship, University of Nevada, Reno (\$10,000)	2018
Travel & Accommodation Scholarship, Southeast Asia Machine Learning School (SEAML)	2019

PROFESSIONAL ACTIVITIES

Reviewer

- Conferences: ICRA (2021)
- Journals: RA-L (2022)