

# Hai NGUYEN

Northeastern University

e-mail: [nguyen.hai1@northeastern.edu](mailto:nguyen.hai1@northeastern.edu)

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

## EDUCATION

Northeastern University (NEU), USA	2019 - Present
Doctor of Philosophy in COMPUTER SCIENCE	
Supervisors: <a href="#">Prof. Robert Platt</a> , <a href="#">Prof. Christopher Amato</a>	
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.

## SELECTED PUBLICATIONS

**Hai Nguyen\***, Zhihan Yang\*, Andrea Baisero, Xiao Ma, Robert Platt, Christopher Amato. “Hierarchical Reinforcement Learning under Mixed Observability”, *The 15th International Workshop on the Algorithmic Foundations of Robotics (WAFR)*, 2022

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**, Hung La. “Review of deep reinforcement learning for robot manipulation”, *The 3rd IEEE International Conference on Robotic Computing (IRC)*, 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), IROS (2022)
- Journals: RA-L (2022)