

Hai Nguyen

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Northeastern University
Khoury College of Computer Sciences
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Education

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| Ph.D. Computer Science, Northeastern University, USA | 2019– |
| M.Sc Unmanned Aircraft System Design, University of Southampton, UK | 2016-2017 |
| B.A. Automatic Control, Hanoi University of Science and Technology, Vietnam | 2007–2012 |

Employment

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| Embedded Software Engineer Viettel Aerospace Institute, Vietnam | 2012-2018 |
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Awards

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| Chevening Scholarship (2% acceptance rate) | 2016 |
| IMechE UAS Challenge - Runner-up | 2017 |
| IMechE UAS 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 |

Publications

PREPRINTS

1. N. D. Nguyen, T. T. Nguyen, **H. Nguyen**, and S. Nahavandi. Review, analyze, and design a comprehensive deep reinforcement learning framework. *arXiv preprint arXiv:2002.11883*, 2020.
2. **H. Nguyen**, H. M. La, and M. Deans. Deep learning with experience ranking convolutional neural network for robot manipulator. *arXiv preprint arXiv:1809.05819*, 2018.

CONFERENCE ARTICLES

3. T. Dang, F. Mascarich, S. Khattak, K. Nguyen, **H. Nguyen**, S. Hirsh, R. Reinhart, C. Papachristos, and K. Alexis. Autonomous search for underground mine rescue using aerial robots. In *2020 IEEE Aerospace Conference*, pages 1–8. IEEE, 2020.

4. **H. Nguyen** and H. La. Review of deep reinforcement learning for robot manipulation. In *2019 Third IEEE International Conference on Robotic Computing (IRC)*, pages 590–595. IEEE, 2019.
5. **H. Nguyen**, H. M. La, and M. Deans. Hindsight experience replay with experience ranking. In *2019 Joint IEEE 9th International Conference on Development and Learning and Epigenetic Robotics (ICDL-EpiRob)*, pages 1–6. IEEE, 2019.
6. A. Sehgal, H. La, S. Louis, and **H. Nguyen**. Deep reinforcement learning using genetic algorithm for parameter optimization. In *2019 Third IEEE International Conference on Robotic Computing (IRC)*, pages 596–601. IEEE, 2019.

Teaching

1. Teaching Assistant | University of Nevada, Reno 2018
CPE 201: Digital Design