

Dao Anh Nhat Nguyen

Career Overview

PhD student at the University of Adelaide, with research focusing on *Multi-Agent Sequential Decision Making*, *Planning under Uncertainty*, and *Monte-Carlo Tree Search*. First author of multiple academic publications and a parallelised and distributed implementation of tree search algorithms for multi-agent systems in Python.

Education

The University of Adelaide April 2021 – Ongoing

Ph.D. in Computer Science - Supervisors: Hung Nguyen, Duong Nguyen & Junae Kim

- Developed a parallelised and distributed implementation of decentralised Monte Carlo Tree Search algorithms for multi-agent systems in Python
- Published papers on state-of-the-art decentralised Monte Carlo Tree Search methods at ECAI and IEEE TMC
- Recipient of the University of Adelaide Research Scholarship

The University of Adelaide July 2018 – Sep 2020

B.Eng. in Computer Engineering (Honours)

- GPA: 6.563/7 - First Class Honours
- Main courses: Computer Networks & Applications, Algorithm Design & Data Structures, Control

Ho Chi Minh City University of Technology August 2015 – Jan 2018

B.Eng. in Electrical & Electronics Engineering

- GPA: 8.44/10
- Main courses: Calculus, Linear Algebra, Universal Physics, Computer Engineering

Publications

Peer Reviewed

- **N. Nguyen** D. Nguyen, J. Kim, G. Rizzo, and H. Nguyen, “Decentralized Coordination for Multi-Agent Data Collection in Dynamics Environments,” *IEEE Transaction on Mobile Computing*, vol. 23, no. 12, pp. 13963-13978, Dec. 2024. *Q1 Ranking, Impact Factor: 7.7*.
- **N. Nguyen**, D. Nguyen, G. Rizzo, and H. Nguyen, “United We Stand: Decentralized Multi-Agent Planning with Attrition,” in *27th European Conference on Artificial Intelligence (ECAI)*. IOS Press, 2024, pp. 3421-3428. *Acceptance Rate: 23.34%*.
- **N. Nguyen**, D. Nguyen, J. Kim, G. Rizzo, and H. Nguyen, “Multi-Agent Data Collection in Non-Stationary Environments,” in *IEEE 23rd International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM)*. IEEE, 2022, pp. 120–129. *Acceptance Rate: 26.43%*.

Under Reviewed

- **N. Nguyen** D. Nguyen, J. Kim, G. Rizzo, and H. Nguyen, “Survive and Thrive: Decentralized Multi-Agent Coordination under Attrition Risks”.
- **N. Nguyen** D. Nguyen, G. Rizzo, and H. Nguyen, “Multi-Agent Monte Carlo Tree Search in Adversarially Skewed Environments”.

Projects

A Decentralised Combined and Hybrid Approach for Multi-agent Decision Making May 2022 – July 2022

- Recipient of the Artificial Intelligence for Decision Making Initiative 2022
- Developed a decentralised planning algorithm combining Monte Carlo tree search and game-theoretic approaches for multi-agent

- Tools used: Python, NumPy, Pandas

Behavioural Analytics of Mobile Applications

Dec 2019 – March 2020

- Recipient of the Summer Research Scholarship at The University of Adelaide
- Developed a test bed for automated mobile traffic data generation and labelling
- Tools used: Python, Appium

Using Machine Learning to Determine Deposit Height and Defects for Wire Arc Manufacture

August 2019 – June 2020

- Final Year Research Project at The University of Adelaide
- Performed statistical analysis and developed machine learning models to estimate deposit height and predict defects based on raw electrical welding data
- Tools used: Matlab, Python, SKLearn

Teaching

The University of Adelaide - Teaching Assistant

March 2022 – July 2024

- Courses: Object-Oriented Programming, Computer Networks & Applications, Algorithm Design & Data Structures
- Duties included: supervising weekly practical sessions, code reviewing and assessing undergraduate students

Ho Chi Minh City University of Technology - Teaching Assistant

Sept 2017 – April 2018

- Courses: Engineering English
- Duties included: facilitating weekly sessions and tutoring undergraduate students

May 8, 2025

Dao Anh Nhat Nguyen

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Dichiaro di:

- essere consapevole delle conseguenze derivanti da dichiarazioni mendaci, previste dal D.P.R. 28/12/2000 n. 445 e s.m.i., e che le informazioni riportate nel presente curriculum corrispondono a verità;
- essere informato/a, ai sensi e per gli effetti di cui al Regolamento UE 2016/679, che i dati personali contenuti nel presente curriculum saranno trattati dall'Università degli Studi di Foggia per adempiere agli obblighi di pubblicazione ai fini di trasparenza previsti dalla normativa vigente.