

AN NGUYEN

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Computer & Engineering Science Department, University of Oxford, United Kingdom

CV updated June 2024

EDUCATION

University of Oxford, United Kingdom

- **Doctor of Philosophy Program**

2021 - now

Research: Intelligent Decision Support Systems, Metacognition AI, Human-AI Joint Decision Making, Deep Reinforcement Learning, Decision Making under Uncertainty.
Supervisors: Professor Nick Hawes.

Nagoya University, Japan

- **Master of Science Program**, Artificial Intelligence and Autonomous Systems.

2019 - 2021

Thesis: **Imitation Learning for Replicating Human Driving Behavior**.
Supervisors: Professor Tatsuya Suzuki.

PUBLICATIONS

8. *2HBT1: Two Heads Are Better Than One – Domain Generalisation of Metacognition in Human-AI Collaboration*.
International Joint Conference on Artificial Intelligence (**IJCAI**), 2024 (submission)
D. A. Nguyen, Raunak Bhattacharyya, Clara Colombaro, Steve Fleming, Nick Hawes.
7. *PRE: Vision-Language Prompt Learning with Reparameterisation Encoder*.
International Conference on Learning Representations (**ICLR**), 2024 (poster)
Minh Anh Pham, D. A. Nguyen, Cephas Svosve, Vasileios Argyriou, Georgios Tzimiropoulos.
6. *Towards Intelligent Decision Support Systems in Robotics: Investigating the Role of Self-Confidence Calibration in Joint Decision-Making*.
Association for the Advancement of Artificial Intelligence (**AAAI**), 2024 (spotlight)
Raunak Bhattacharyya, D. A. Nguyen, Clara Colombaro, Steve Fleming, Ingmar Posner, Nick Hawes.
5. *Group Decision-Making in Robot Teleoperation*.
Robotics: Science and Systems (**RSS**), 2024 (submission)
D. A. Nguyen, Raunak Bhattacharyya, Clara Colombaro, Steve Fleming, Nick Hawes.
4. *CTL Model Checking of MDPs over Distribution Spaces*.
Hybrid Systems: Computation and Control (**HSCC**), 2023
Yulong Gao, D. A. Nguyen, Karl H. Johansson, Alessandro Abate.
3. *CTL Model Checking of Markov Decision Processes over the Distribution Space Artifacts*.
Quantitative Evaluation of Systems (**QEST**), 2022
D. A. Nguyen, Yulong Gao, Karl H. Johansson, Alessandro Abate.
2. *Modeling Car-Following Behavior in Downtown Area based on Unsupervised Clustering and Variable Selection Method*.
IEEE International Conference on Systems, Man, and Cybernetics (**IEEE SMC**), 2021
D. A. Nguyen, J Nwadiuto, H Okuda, T Suzuki.
1. *Model Structure Identification of Hybrid Dynamical Systems based on Unsupervised Clustering and Variable Selection*.
International Federation of Automatic Control (**IFAC**), 2020
D. A. Nguyen, J Nwadiuto, H Okuda, T Suzuki.

EXPERIENCE

Nagoya University

Graduate Student Researcher

Sep 2019 - Aug 2021

Nagoya, Japan

- Developed data-driven method to model human driving behavior for precise driving behavior planning and prediction.

ACADEMIC SERVICES

Teaching at University of Oxford

Data Mining

Hilary 2024

Algorithms and Data Structures

Michaelmas 2023

Introduction to Deep Learning

Michaelmas 2023

Reinforcement Learning

Michaelmas 2023, 2024

AI Ethics

Michaelmas 2023

Computer Graphic

Trinity 2022

Internet of Things

Hilary 2022, 2023, 2024

Reviewer

Automatica

2023

International Conference on Intelligent Robots and Systems (IROS)

2022

International Conference on Control & Automation (ICCA)

2022

International Federation of Automatic Control (IFAC)

2022

Control of Complex Systems (COSY)

2022

International Conference on Formal Modeling and Analysis of Timed Systems (FORMATS)

2022

Competition

Applied Verification for Continuous and Hybrid Systems (ARCH 2022)

SKILLS

Areas of expertise:

Human-AI joint decision making, metacognitive intelligent decisions support systems, statistical analysis, LLMs machine learning, (deep) reinforcement learning.

Programming

Python, C++, JavaScript, MATLAB.

Others

PyTorch,, TENSORFLOW, AWS S3, AWS EC2, DOCKER, MongoDB.

AWARDS

MEXT Scholarship, Japanese Government

2019

JASSO Scholarship, JASSO Foundation

2015