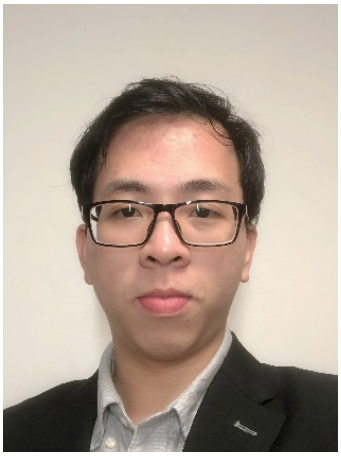
Quang Nhat Nguyen



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Languages: Vietnamese (native), English (proficient – IELTS 8.0), Japanese (fluent – JLPT N2)

Affiliated Research Group

April 2020 – Present
Takeda Laboratory
Driving Behaviour and Automotive Perception Research Group
Department of Intelligent Systems, Graduate School of Informatics, Nagoya University

Professional Experience

June 2023 – Present
Research and Development Engineer (part-time) at the Sensing and Perception Team at Map IV, Inc. (a group member of Tier IV, Inc.)

November 2021 – March 2022, April 2023 – Present
Research Assistant at JARI (Japan Automobile Research Institute)

September 2022
Research Intern at RIKEN Centre for Computational Science, Data Assimilation Research Group

April 2022 – March 2023
Research Assistant at NEDO (New Energy and Industrial Technology Development Organisation)

Education

October 2021 – September 2023 (expected)
M.E. in Electrical Engineering
Nagoya University, Japan

October 2017 – September 2021
B.E. in Electrical Engineering, Electronics, and Information Engineering
Nagoya University, Japan, GPA: 4.07, Valedictorian

August 2014 – May 2017
High School Diploma with specialisation in Mathematics
Le Quy Don High School for Gifted Students, Da Nang City, Vietnam

Skills

Programming
- **Deep learning** implementation in Python TensorFlow
- **Graphics** (Open3D, OpenCV) and **Graphics engine** (Unreal Engine) programming
- **Cloud-based** (AWS) and **containerised application** (Docker) development

Autonomous driving systems development, and others
- **Autonomous driving simulators** (CARLA, SVL, Autoware)
- **Robotics perception** programming (ROS, C++, MATLAB, sensors calibration, 3D digital twin)

Publications

Universal Calibration Target for Joint Calibration of LiDAR sensors, Thermal Cameras, and RGB cameras

Quang Nhat Nguyen, Khanh Bao Tran, Alexander Carballo, and Kazuya Takeda
IEEE International Conference on Intelligent Transportation Systems (ITSC) (submitted), September 2023

Physics-based LiDAR waveform simulation method for realism improvement of driving simulators

Quang Nhat Nguyen, Alexander Carballo, and Kazuya Takeda
International Symposium on Future Active Safety Technology toward zero-traffic-accident (FAST-zero), September 2021

On radial Schrödinger operators with a Coulomb potential: general boundary conditions

Jan Dereziński, Jérémy Faupin, Quang Nhat Nguyen, and Serge Richard
Advances in Operator Theory 5, pp. 1132 – 1192, July 2020
DOI: 10.1007/s43036-020-00082-6

Honours / Awards

Japan Government's Graduate Scholarship

10.2021 – Present, awarded by the Ministry of Education, Culture, Sports, Science and Technology of Japan (MEXT)

Outstanding Presentation Award

7. 2022, awarded by Nagoya University.

Valedictorian of Nagoya University School of Engineering

9. 2021, honoured by Nagoya University.

Japan Government's Undergraduate Scholarship

10.2017 – 9.2021, awarded by the Ministry of Education, Culture, Sports, Science and Technology of Japan (MEXT)

Licenses / Certificates

Quantum Computing

IBM Quantum Challenge Certificate of Achievement

Issued by **IBM**, credential ID: https://www.credly.com/badges/918c0976-1f83-4f02-9b88-a5f5afd02e87/public_url

Machine Learning

Machine Learning Specialisation

Issued by **Stanford University**, credential ID: https://coursera.org/verify/specialization/JV2NK7M6HMSN

Cloud-based Development

Amazon Web Services Specialisation: Modern Application Development with Python on AWS

Issued by **Amazon Web Services**, credential ID: https://coursera.org/verify/specialization/YWFXB8CS6DTJ

Teaching Experience

10/2018 – 2/2021

Tutor for the following courses at Nagoya University:

Mathematics for Machine Learning (Autumn 2020)
Graph Theory (Spring 2020)
Calculus I (Autumn 2019)
Differential Geometry (Autumn 2018)