

Quang Nhat Nguyen

Department of Electrical Engineering
Graduate School of Engineering, Nagoya University

Address: Room 828, IB North Building, Nagoya University
Furo-cho 1, Nagoya 464-8603, Japan

Email: nguyen@g.sp.m.is.nagoya-u.ac.jp
Phone: +81-70-4803-4699

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](https://doi.org/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

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)

References

Professor Kazuya Takeda: kazuya.takeda@nagoya-u.jp

Professor at the Graduate School of Informatics, Nagoya University

Vice President of Nagoya University

Professor Alexander Carballo: alexander@g.sp.m.is.nagoya-u.ac.jp

Professor at the Graduate School of Informatics, Nagoya University

Professor at the Department of Electrical, Electronic and Computer Engineering, Gifu University

Professor Serge Richard: richard@math.nagoya-u.ac.jp

Professor at the Graduate School of Mathematics, Nagoya University