



TRUC HUYNH

"Together, let's make the world say wow."

Education

- 05/2025-07/2025 **Certificate of Completion**, EPFL - *École Polytechnique Fédérale de Lausanne*.
Digital Signal Processing Specialization
- 08/2023-08/2025 **Master of Science**, *Norwegian University of Science and Technology (NTNU)*.
A (Max), Computational Colour and Spectral Imaging
- 08/2023-08/2025 **Master of Science**, *Jean Monnet University, France*.
A (Max), Optics, Image, Vision, Multimedia
- 05/2019-07/2019 **Certificate of Completion**, *National University of Singapore*.
Enterprise Summer Programme in Entrepreneurship
- 09/2017-07/2021 **Bachelor of Science**, *Vietnam National University*.
8.6/10., Computer Science

Experience

- 01/2025-07/2025 **Master Thesis**, *Sony Europe, Germany*.
 - Developed deep learning-based hyperspectral reconstruction from optical system.
 - Implemented multi-illumination estimation from hyperspectral image.
- 06/2024-08/2024 **Research Intern**, *Laboratoire Hubert Curien, France*.
 - Benchmarked deep learning models for image relighting.
 - Implemented the Phong reflection model to add colored lighting to RGB image.
- 06/2020-02/2021 **Research Assistant**, *University of Alberta, Canada*
 - Researched Medical Image Processing and Artificial Intelligence.
 - Implemented the solution to address the 2030 Agenda for Sustainable Development, combat poverty and narrow the development gap in the ASEAN region.
- 07/2019-07/2023 **Computer Vision Engineer**, *Viettel AI, Vietnam*
 - Led development and operation of a large-scale verification system.
 - Improved reliability and throughput; collaborated cross-functionally to deploy to production.

Selected Publications

- [1] T. L.-P. Huynh and N. Q. Ly, "Image retrieval with text feedback based on transformer deep model," in *2021 8th NAFOSTED Conference on Information and Computer Science (NICS)*, 2021, pp. 182–187. [Online]. Available: <https://doi.org/10.1109/NICS54270.2021.9701539>
- [2] T. Huynh and M. Nguyen, "Deep-learning-based spatially coherent lighting for realistic virtual object insertion," in *Proceedings of the Colour and Visual Computing Symposium (CVCS)*, 2024. [Online]. Available: <https://doi.org/10.13140/RG.2.2.31028.56966>

Awards

- 2023-2025 Erasmus Mundus Scholarship for Master at NTNU and Jean Monnet University
- 2020 Canada-ASEAN Scholarships and Educational Exchanges for Development
- 2019 First Prize in Meta Developer Circle Innovation Challenge
- 2017-2021 Vietnam National University Scholarship

Qualifications

- Advanced C++, Python, PyTorch, TensorFlow, NumPy, Git, L^AT_EX, Linux, MATLAB, OpenCV, Scikit-Learn, Blender
- Intermediate SQL, Docker, Javascript, TypeScript, Java, Amazon Web Services, Google Cloud Platform

Teaching Assistant

- 09/2024-12/2024 **Introduction to Color Image Processing, IDIG4321**, NTNU.
 - Processing (acquisition, filtering, enhancement)
 - Segmentation (thresholding, edges, morphology)
 - Compression (spatial and frequency methods)
- 03/2019–06/2019 **Programming Lego Mindstorms EV3**, Vietnam National University.
 - EV3 hardware and programming basics (EV3-G, Python)
 - Program motors and sensors using loops, conditions, and variables
 - Hands-on projects and challenges

Communication Skills and Organizations

- 2024 **Volunteer**, *ISU Gjøvik*, Working towards uniting cultures and creating an engaging global experience in Gjøvik, Norway.
- 2021 **Delegate**, *International Student Science Forum*, Engaged in cross-cultural academic exchange and presented research on enhancing Vietnam's public administration through Optical Character Recognition.
- 2020 **Participant**, *SheCodes Hackathon*, Built a desktop app supporting remote work during a 12-hour competition as part of a 3-member team.

- 2019 **Team Lead**, *Meta Developer Circle Innovation Challenge*, Led a team to develop a fraud detection app that won first prize at Meta Singapore.
- 2019 **Student**, *KIT BioTech x IT Winter School*, Japan, Participated in a tech exchange, explored biotech and IT firms, and proposed dietary solutions for Vietnam.
- 2017 **Board Member**, *Design ITUS*, Supported visual design and branding for student tech events and initiatives.
- 2016 **Participant**, *Chungcheongnam-do Youth Cultural Exchange Volunteer Programme*, Engaged in cultural exchange activities in South Korea.

Languages

Vietnamese	Native
English	Advanced (C1)
French	Upper-intermediate (B2)
Norwegian	Lower intermediate (A2)

Interests

- Coding
- Walking
- European Culture
- Cooking
- Entrepreneurship
- Teaching