

LOC-PHAT TRUONG

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EDUCATION

Autonomous University of Barcelona (UAB), Sep 2024 - Sep 2025
Joint Master's in Computer Vision, by UAB, UPF, UPC, UB, UOC

Ho Chi Minh City University of Technology and Education (HCMUTE), Sep 2015 - Mar 2020
Bachelor of Mechatronics Engineering Technology (4) & Certification of Vocational Education (0.5)
GPA: 7.99/10
Thesis: Research and Application of Deep Learning Algorithm for Tomato Quality Classification System - Grade: 9.2/10

RESEARCH EXPERIENCE

Graduate Research Intern Nov 2024 - Mar 2025
MSIAU Group - Computer Vision Center
Research Supervisor: Professor Daniel Ponsa
Barcelona, Spain

- Research topics: Satellite Imaging; Hyperspectral Imaging; Single Image Super Resolution.

Student researcher Jan 2019 - Mar 2020
HCMUTE HCMC, Viet Nam
Research Supervisor: Quang-Huy Vu, PhD

- Research topics: lightweight convolutional neural network; image classification; weakly-supervised object localization.
- Conducted experiments with a customized CNN architecture inspired by the inverted residual block from MobileNetV2 and a GradCAM visual explainer followed. The objective was to balance the accuracy and latency in a real time mechatronics system.
- Published a full paper at the IEEE conference - GTSD 2020 and acquired the best thesis award in 2020.

PUBLICATIONS

Loc-Phat Truong, Bach-Duong Pham, and Quang-Huy Vu. "A Mobile Deep Convolutional Neural Network Combined with Grad-CAM Visual Explanations for Real Time Tomato Quality Classification System." 2020 5th International Conference on Green Technology and Sustainable Development (GTSD). IEEE, 2020. p. 321-325.

PROFESSIONAL EXPERIENCE

Knorex Pte. Ltd. Jan 2022 - Oct 2024
Data Scientist (L3) HCMC, Viet Nam

- Business problems: Ads Ranking, User Response Optimization, Real-time Bidding.
- Research topics: Online Learning, Contextual Bandit, Machine Learning, Tabular Deep Learning, Model Calibration.
- Implemented prototypes and deployed deep learning model at scale - millions of requests per second.
- Navigate MLOps integration and development.

SceneSeer (Startup) (part-time Dec 2019 - Mar 2020) Dec 2019 - Jul 2021
Core AI Engineer USA, remote from HCMC, Viet Nam

- Built and delivered OCR system to client's production - [MEDITECH Expanse](#).
- Implemented computer vision [prototypes](#) (fall detection, facial mask detection, multi-object multi-view tracking, etc.).

TEACHING EXPERIENCE

Ho Chi Minh City University of Technology and Education

Teaching Assistant - 6 semesters

Sep 2017 - Dec 2020

HCMC, Viet Nam

- AMME131529 Applied Mathematics in Mechanical Engineering
- AUCO330329 Automation Control
- EEEN230129 Electrical & Electronics Engineering

SKILLS

Programming Languages	Python (proficient), Linux Bash(proficient), SQL, C/C++
DL frameworks	Pytorch, Tensorflow
ML&DS Libraries	sklearn, scipy, pandas, polars, matplotlib, opencv, librosa
Application skills	AWS&GCP (server, storage, API, serverless, data warehouse, etc.), Docker, Git
Writing tools	Markdown, HTML, LaTeX
Soft skills	Teamwork, Independent Working, Problem Solving, Project Management, Critical Thinking, Oral Presentation and Leadership
Language skills	English (C1), Vietnamese (native)

HONORS & AWARDS

The honorable mention at [Cough-based Covid-19 Detection Challenge](#), 2021
Stayed in the top 30 highest scores in both 2 phases of this cough audio classification challenge.

Amazon Web Services Certified Machine Learning – Specialty (certification), 2020
Score: 941/1000 - Issued by: Amazon Web Services Training and Certification.

The best thesis award, 2020
The award for the top highest score thesis of all students graduating this year.

Study Encouragement Scholarship, 2017-2018
The scholarship for outstanding academic performance in the school year 2017-2018.

Provincial Excellence High School Student in Mathematics, 2012
Third prize in a Math competition for excellent students of all high schools in the province.

EXTRACURRICULAR ACTIVITIES

Knorex Reviewer's club 2023
Chose a manuscript from the given list, prepared the comment, and conducted a pitch talk internally.
Organized and supervised by Dr. Jin Yiping at Knorex.

Viet Nam ABU Robocon Contest 2017 and 2018 2017 - 2018
National robotics competition team leader.
Knowledge gained: mechanical-electronic-programming interaction, robot manipulation, trajectory planning, controlling (PID controller), microcontroller programming, robot perceptions (rotary encoder, proximity sensor, line sensor, gyroscope, and accelerometer)

TALKS

Model deployment with Tensorflow Serving - Knorex, Oct 2022
Technical Training Session for Research & Prototyping Department

Click-Through-Rate(CTR) Prediction - Knorex, Aug 2022
Technical Training Session for Research & Prototyping Department

Conference paper presentation, Nov 2020
2020 5th International Conference on Green Technology and Sustainable Development
Paper: A Mobile Deep Convolutional Neural Network Combined with Grad-CAM Visual Explanations for Real Time Tomato Quality Classification System.

REFEREES

Quang-Huy Vu, PhD

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Ho Chi Minh City University of Technology and Education,
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Yiping Jin, PhD

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Head of R&D in Research & Prototyping at Knorex,
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