

# LOC-PHAT TRUONG

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## EDUCATION

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**Autonomous University of Barcelona (UAB),** Sep 2024 - Sep 2025  
*Joint Inter-University 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

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**Graduate Research Intern** Nov 2024 - Present  
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

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**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

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**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

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### 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

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

## HONORS & AWARDS

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**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

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**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

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**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 5<sup>th</sup> 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

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### **Quang-Huy Vu, PhD**

Program Head of Mechatronics Engineering Technology,  
Faculty of International Education,  
Ho Chi Minh City University of Technology and Education,  
Email: huyvq [at] hcmute.edu.vn

### **Yiping Jin, PhD**

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