

LOC-PHAT TRUONG

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RESEARCH INTERESTS

- Computer Vision: Object detection, Object tracking, Behavioral Analysis, Scene Understanding.
- Machine Learning, Deep Learning, Model Calibration, Multimodal Deep Learning, Continual Learning.

EDUCATION

Autonomous University of Barcelona (UAB), Sep 2024 - Sep 2025
Master in Computer Vision, joint program 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

Student researcher Jan 2019 - Mar 2020
HCMUTE 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 Viet Nam

- Joined as Level 2 (L2), promoted to L3 next year.
- Business problems: ads viewability, click-through rate (CTR), and conversion rate (CVR) optimization for online advertising, operating as both real-time and batch prediction.
- Research topics: online learning, contextual bandit, user-context features interaction, machine learning, tabular deep learning, model calibration.
- Delivered prototypes and deployed deep learning model at a scale of millions of requests per second.
- Coordinated the development and integration of MLOPs concept to the current ML system.

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

- Researched and applied optical character recognition (OCR) to client's products, using [PaddleOCR](#) as the core OCR engine.

- Researched and applied latest studies in computer vision to implement several [prototypes](#) (fall detection, facial mask detection, multi-object multi-view tracking, etc.) to demonstrate the potential of AI for clients.

TEACHING EXPERIENCE

Ho Chi Minh City University of Technology and Education

Sep 2017 - Dec 2020

Teaching Assistant - 6 semesters

Viet Nam

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

SKILLS

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|------------------------------|--|
| 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, Presentation and Leadership |
| Language skills | 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 |
| <i>Score: 941/1000 - Issued by: Amazon Web Services Training and Certification.</i> | |
| 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 COURSES

Machine Learning Engineering for Production (MLOps) Specialization (4 courses)

Issued by: DeepLearning.AI (Coursera).

Deep Learning Specialization (5 courses)

Issued by: DeepLearning.AI (Coursera).

Machine Learning (1 course)

Issued by: Stanford University and DeepLearning.AI (Coursera).

First Principles of Computer Vision (5 courses)

Issued by: Columbia University (Coursera).

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.

The Viet Nam ABU Robocon Contest 2017 and 2018

2017 - 2018

Led a team following the robotic competition's rules and instructions.

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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