

EDUCATION	<b>University of Science - Vietnam National University HCMC</b> , Vietnam <i>2016 - 2020</i> <i>B.Sc. in Computer Science</i> <i>Faculty of Information Technology</i> <ul style="list-style-type: none"><li>Honors graduate thesis: <b>Multiple pedestrian tracking with Siamese Tracker</b><ul style="list-style-type: none"><li>Grade: 10/10</li><li>Advisor: Dr. <b>Tuan Hue THI</b></li><li>Supervisor: Dr. <b>Son Thai TRAN</b></li></ul></li></ul> <b>Le Quy Don High School for the Gifted</b> , Vietnam <i>2013 - 2016</i> <i>Major in Algorithm</i>
PUBLICATION	<b>Conference Paper</b> <ul style="list-style-type: none"><li><b>Pha A. Nguyen</b> and S. T. Tran, "Tracking customers in crowded retail scenes with Siamese Tracker," in <i>Proceedings of the 2020 IEEE-RIVF International Conference on Computing And Communication Technologies</i>, October 2020. <b>(Oral presentation)</b></li></ul>
RESEARCH EXPERIENCE	<b>VinAI Research</b> , Vietnam <i>Mar 2020 - Present</i> <i>Research Engineer</i> <i>Department of Applied Research</i> <ul style="list-style-type: none"><li>Researched and developed a large-scale indexing system to store millions of identities, under the guidance of Prof. <b>Khoa LUU</b></li><li>Researched and applied ML/DL techniques to solve stereo camera calibration, depth estimation, face beautification problems for <b>VSmart</b> smartphones</li></ul> <b>Independent Research</b> <i>Sep 2019 - Present</i> <ul style="list-style-type: none"><li>Developed a SiamRPN-based MOT algorithm that outperforms state-of-the-arts on private retail scene dataset, under the guidance of Dr. <b>Tuan Hue THI</b></li></ul>
TEACHING EXPERIENCE	<b>FUNiX University</b> , Vietnam <i>Sep 2019 - Present</i> <i>Mentor &amp; Coach</i> <ul style="list-style-type: none"><li>Suggested training programs, coached and offered guidance for undergraduate students</li><li>Selective courses:<ul style="list-style-type: none"><li><b>MLP301x_01_EN</b> - Machine Learning</li><li><b>DSP301x_01_EN</b> - Data Science</li><li><b>CSD201x_01_EN</b> - Data Structures and Algorithms</li></ul></li></ul>
WORK EXPERIENCE	<b>GE3F Co.LTD</b> , Singapore <i>Sep 2019 - Jan 2020</i> <i>AI Engineer</i> <ul style="list-style-type: none"><li>Developed human-robot interaction system on pre-built hardware</li><li>Improved quality inspection system's accuracy from 81% to 92% on private circuit dataset by implementing Label Smoothing Loss function and adding several data augmentation methods</li></ul> <b>EyeQ Tech</b> , Vietnam <i>Sep 2017 - Aug 2019</i> <i>Computer Vision Engineer &amp; AI Researcher</i> <ul style="list-style-type: none"><li>Researched and applied ML/DL techniques to solve face detection, face recognition, head pose estimation, emotion recognition, object detection, activity detection, traffic analysis problems</li><li>Improved the head pose estimation algorithm's accuracy from 71% to 93% on 360,000 images dataset by adding Kalman Filter</li><li>Improved the facial recognition pipeline's accuracy from 90% to 95% on 7,000,000 face images of 1,000,000 people by implementing Set-to-Set Matching algorithm and Face Pruning algorithm</li><li>Reduced the facial recognition pipeline's processing time to near real-time by implementing DeepSORT Tracking algorithm and Face Embedding Hashing system</li><li>Deployed scalable and automatical ML/DL applications with Docker and Kubernetes</li></ul>
TECHNICAL SKILLS	<b>Efficient:</b> Deep Learning, Computer Vision, Python, C++, API Development, Docker, L <sup>A</sup> T <sub>E</sub> X <b>Familiar:</b> C#, Java, Database, Parallel Programming, Embedded Systems

## HONORS AND AWARDS

### 2019

- [Glints Vietnam Scholarship](#) for young talents
- Top 5 Highest Scoring Teams in the [KVision × VIISA Hackathon](#)
- [Special Honors Participant](#) in the [International Youth Math Challenge](#) for submitting a well-written solution

### 2015

- [Odon Vallet Scholarship](#) for outstanding students
- Silver Medal from the Southern Vietnam Olympiad in Algorithm
- Honorable Mention Award in the Excellent Competition in Algorithm
- Third Place in the IT Competition for Youth in Creative Software

### 2014

- Silver Medal from the Southern Vietnam Olympiad in Algorithm
- Third Place in the Excellent Competition in Algorithm
- Third Place in the IT Competition for Youth in Creative Software

## ACTIVITIES

[xDay event](#) by [FUNiX University](#)

*Mar 2020*

*Data Science Coach*

[International Youth Math Challenge](#)

*Oct 2019*

*Participant*

[AI Talk Series](#) by [Talent UP! Vietnam](#)

*Jul 2019*

*Speaker*

## PROFESSIONAL MEMBERSHIP

Student Member of the Institute of Electrical and Electronics Engineers (IEEE)

## REFEREES

**Dr. Tuan Hue THI**, Amazon Go

*Senior Research Engineer*

**Dr. Son Thai TRAN**, University of Science - VNUHCMC

*Vice Head of Department of Computer Vision and Cognitive Cybernetics*