

Nguyen Hoang Nhat Tan

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 LinkedIn |  Github

Education

Doctor of Philosophy (PhD) in Statistics *University of Illinois at Chicago (UIC)* **Chicago, IL** 08/2025 - Now
GPA: 4.00/4.00

Bachelor of Science (Honors) *Fulbright University VietNam (FUV)* **HCMC, Viet Nam** 08/2021 - 05/2025
Major: Applied Mathematics. Minor: Computer Science.
GPA: 3.89/4.00 - Summa cum laude - top 5%

Research Experience

Capstone Project **FUV** 08/2024 - 05/2025

- Topic: Parameters estimation for interest rate and stock price models.
- Maximum likelihood estimation, approximated density, Ornstein-Uhlenbeck, CIR, geometric Brownian motion.

AI City Challenge 2024 (AICC24) **FUV** 01/2024 - 03/2024

- Road Object Detection in Fish-Eye Cameras.
- Ranking: 21/70 (General) and 16/52 (Public).

Workshop on Vietnamese Language and Speech Processing (VLSP23) **FUV** 09/2023 - 12/2023

- Machine translation VietNameese ↔ Laos – Ranking 7/7 - [Report](#).
- Comparative Opinion Mining – Ranking 5/22 - Accepted manuscript [arXiv:2401.01108](#).

Teaching Experience

Graduate Teaching Assistant (TA) **UIC** 08/2025 – Now

- Fall 2026: MATH121 - Precalculus.
- Summer 2026: MATH165 - Calculus for Business.
- Spring 2026: STAT101 - Introduction to Statistics.
- Fall 2025: MATH165 - Calculus for Business.
- Leading weekly discussion sessions. Promoting active learning, growth mindset.
- Assisting with course administrations. Managing drop-in hours and review sessions, projects.
- Reviewing and giving feedbacks on materials and assignments.

Undergraduate TA **FUV** 01/2024 – 05/2025

- Spring 2025:
 - + CS311: Advanced Deep Learning.
 - + CS103 - Programming for Data Science and Visualization.
- Fall 2024:
 - + CS313 - Deep Learning for Artificial Intelligence.
 - + CS103 - Programming for Data Science and Visualization.
- Spring 2024: CS208 - Machine Learning for Data Science.
- Assisted with course administrations. Managed office hours and review sessions, projects.
- Gave feedback on materials and assignments to the instructor. Wrote and reviewed all demo codes and solutions.

Working Experience

Student IT Support **FUV** 02/2022 – 06/2022

- Supported hybrid teaching and learning plan; technical and equipments support.

Activities and Competitions

Vietnamese Student Math Olympiad 2024 (*VMS Official*)

Da Nang City, Viet Nam 04/2024

- Silver medal - Analysis.

Vietnamese Student Math Olympiad 2023

Hue City, Viet Nam 04/2023

- Silver medal - Linear Algebra.

Tamarind Team (Admission support)

FUV 09/2021 – 07/2022

- Webinar team - Organized webinars for FUV admission team campaigns.

Skills and Languages

- **Technical:** Python, TensorFlow, PyTorch, Java, R, Julia (SDE), MATLAB, LaTeX.
- **Language:** English (11/2024: TOEFL iBT 100).

Course projects and independent studies

- **Past course projects:** SDEs in Finance, Continuous but nowhere differentiable functions, SGD and optimizers, Optical music recognition, Stereo camera and disparity map, Maximal spanning tree, PCA.
- **Personal projects:** ProGAN re-implementation, CS231n self-paced, power iteration for eigen-decomposition.

Scholarships and Grants

- Academic year 2023-2024: MOET-VIASM Math Program Scholarship Semester 1 + 2.

Version

- This was last updated on 22nd August 2026.