Le Quang Dung

Nationality: Vietnamese
Date of birth: 01/10/1999
Phone number: (+33) 672504026
Email: lequangdungk62tnt@gmail.com

Education

École Polytechnique — Paris, France
Cycle Ingénieur (Master of Science degree), specialising in Computer Science. — 9/2021–now
GPA: 3.85/4.0.

VNU University of Science — Hanoi, Vietnam
B.S. in Mathematics (Talent Program), specialising in Probability. — 9/2017-8/2021
GPA: 3.84/4.00, Ranking: 3/1307.

- Thesis: "The Total Variance Distance between Random Variables".

Lam Son High School for the Gifted Student — Thanh Hoa, Vietnam
High School Diploma. — 9/2014–5/2017
GPA: 8.7/10.0.

Research Interest

My current research focuses mainly on **Optimal Transport** (OT), in which I utilize various techniques to lower the computational complexity of OT algorithms. Besides OT, I have recently studied the **Natural Language Processing**, especially the problem of **Information Extraction**. .

Experience

VNU University of Science, Department of Probability and Statistics — Hanoi, Vietnam
Student Research — 9/2019-8/2021

- Research about some important results and new methods in Probability and its application in Statistics

Club of Learning Mathematics with Jenny — Hanoi, Vietnam
Tutor — 8/2018-9/2020

- Training the students to prepare to the Vietnam National Mathematics Olympiad

La Javaness — Paris, France
Internship — 6/2023-8/2023

- Subject: Analysis and applications of graph algorithms

Publication

- Huy Nguyen*, Khang Le*, **Dung Le***, Dat Do, Tung Pham, Nhat Ho. Entropic Gromov-Wasserstein between Gaussian Distributions. *39th International Conference on Machine Learning (ICML 2022).*
- Ta Cong Son, **Dung Le Quang**, Manh Hong Duong. Rate of convergence in the Smoluchowski-Kramers approximation for mean-field stochastic differential equations. *Potential Analysis.*
- Huy Nguyen*, **Dung Le***, Khai Nguyen*, Nhat Ho. Fast Approximation of the Generalized Sliced-Wasserstein Distance. *ICML Workshop on New Frontiers in Learning, Control, and Dynamical Systems, 2023.*

Projects

- **Prediction of Signal Peptide Cleavage Site Using Supervised Learning** (code) 3/2023 - 5/2023
  - Using the Support Vector Machine Model for predicting the position of cleavage in a sequence of protein.
- **Discussion of Artificial Intelligence in video game** 8/2022 - 5/2023
  - Develop through deep learning solutions aimed at extending the possibilities of player interaction within video games using voice.
- **Malliavin's calculus, Stein's method and its application in Probability** 8/2020-6/2021
  - Researched the concept in Malliavin's calculus, Stein's method and implemented it to estimate the total variation distances in Statistics
- **The criteria of the convergence of a series of random variable** 8/2019-6/2020
  - Extended the Kolmogorov's three-series theorem in the case of random fields.

Scholarships and Awards

Eiffel Scholarship 8/2021 - 8/2024
Campus France

The First Prize of Faculty and Second Prize in University 5/2021
The Student Research Compendium of VNU University of Science

The First Prize in Analysis with highest score, and The First Prize in Algebra 4/2019
2019 Vietnam Mathematics Olympiad for the Undergraduate Student

The First Prize in Analysis with highest score 4/2018
2018 Vietnam Mathematics Olympiad for the Undergraduate Student

Gold Medal 7/2017
57^{th} International Mathematics Olympiad

First Prize with Highest Score 1/2017
2017 Vietnam Mathematics Olympiad

First Prize 1/2016
2016 Vietnam Mathematics Olympiad

Languages

- **Vietnamese:** Mother tongue
- **Chinese:** Full professional working proficiency
  - HSK6: 236/300 (level C2, in 2021)
- **English:** Professional working proficiency
  - TOEFL: 91/120 (in 2023)
- **French:** Professional working proficiency
  - TCF: B2 (in 2023)

Skills

- **OS:** MacOS, Linux, Window
- **Programming:** Python, Java, C++, R