KHANG LE

Email: khanglnt@utexas.edu   **Website**: https://lntk.github.io

RESEARCH INTEREST

Optimal Transport, Optimization, Machine Learning

EDUCATION

University of Texas at Austin   **Austin, Texas, USA**
PhD in Electrical and Computer Engineering   *2021-Present*
GPA: 4.0/4.0
Advisors: Constantine Caramanis, Nhat Ho

VNU University of Engineering and Technology (VNU-UET)   **Hanoi, Vietnam**
Bachelor of Computer Science   *2015-2019*
GPA: 3.63/4.0
Thesis: Automatic Segmentation of Left Ventricle in 2D Echocardiogram Using Deep Learning

PUBLICATIONS

1. Entropic Gromov-Wasserstein between Gaussian Distributions   ICML 2022
   Khang Le*, *Dung Le**, *Huy Nguyen**, *Dat Do*, *Tung Pham*, *Nhat Ho*
2. On Multimarginal Partial Optimal Transport: Equivalent Forms and Computational Complexity   AISTATS 2022
   Khang Le*, *Huy Nguyen**, *Tung Pham*, *Nhat Ho*
3. On Robust Optimal Transport: Computational Complexity and Barycenter Computation   NeurIPS 2021
   Khang Le*, *Huy Nguyen**, *Minh Quang Nguyen*, *Tung Pham*, *Hung Bui*, *Nhat Ho*
4. On Unbalanced Optimal Transport: An Analysis of Sinkhorn Algorithm   ICML 2020
   Khiem Pham*, **Khang Le***, *Nhat Ho*, *Tung Pham*, *Hung Bui*

RESEARCH EXPERIENCE

VinAI Research   **Hanoi, Vietnam**
Superviors: Hung Bui, Minh Hoai   *2019-2021*

- Studying variants of the optimal transport problem such as Gromov-Wasserstein distance (with applications in feature matching, manifold learning), unbalanced optimal transport (regarding the computational complexity of Sinkhorn algorithm)
- Developing a new approach for background subtraction problem by integrating Gaussian mixture models into feature layers of convolutional neural networks

UET AI Lab (VNU-UET)   **Hanoi, Vietnam**
Superviors: Quoc Long Tran, Le Sy Vinh   *2018-2019*

- Applying image processing techniques to solve many medical imaging tasks such as chromosome extraction and counting, left ventricle segmentation
- Conducting literature review on common techniques and practices in image segmentation problems and conducting experiments to design best pipeline for left ventricle segmentation problem

INDUSTRIAL EXPERIENCE

NERD (nerd.vn)   **Hanoi, Vietnam**
Supervior: Dat Nguyen   *2018*

- Working on Information Extraction and Question Answering using Knowledge Graph for Vietnamese

AWARDS AND ACHIEVEMENTS

Excellent Graduation Thesis   **2019**

The Typical Young Face of the Vietnam National University   **2017, 2018**
Annual Award for Excellent Students of Vietnam National University

First Prize in Algebra Olympiads for University Students   **2017**
National Competition in Algebra for University Students

Second Prize in The ACM ICPC Vietnam National Programming Contest   **2017**

SKILLS

Programming Python, C/C++, Java, LaTeX
Language Vietnamese (native), English (fluent)