

Khiem H. Le (B.Sc.)

PERSONAL INFORMATION

Research Assistant

VinUniversity, Hanoi, Vietnam

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Webpage: <https://lhkhiem28.github.io>

Google Scholar: <https://bit.ly/3sw7e61>

EDUCATION

Bachelor of Science (Honours) - Major: Mathematics

Sep 2017 - Sep 2021

Faculty of Mathematics and Computer Science, VNUHCM - University of Science

Graduation Thesis: [Vietnamese Sentiment Classification Using Deep Learning Methods](#)

RESEARCH EXPERIENCE

Research Assistant

Jan 2023 - Present

[Security and Artificial Intelligence Lab](#)

VinUniversity

- *Project: Federated Domain Generalization*
Study the Domain Generalization Problem Under the Federated Learning Setting
- *Project: Federated Learning for Internet of Things*
Explore Challenges and Practicalities of Federated Learning for IoT Applications

Research Assistant

Jan 2022 - Dec 2022

[VinUni-Illinois Smart Health Center](#)

VinUniversity

- *Project: ECG-Based Heart Arrhythmia Detection*
Automatically Identify Abnormal Heart Rhythms Based on Reduced-Lead Electrocardiograms

Research Intern

Oct 2020 - Dec 2021

[Smart Health Center at VinBigData](#)

VinBigData Institution

- *Project: Abnormality Detection on Chest Radiographs*
Automatically Localize and Classify Thoracic Abnormalities From Chest X-ray Scans

Research Intern

Jan 2020 - Sep 2020

[Artificial Intelligence Solution for Industrial Applications Research Lab](#)

VNUHCM - University of Science

- *Research Group: Vietnamese Natural Language Processing*
Extract Insights From Text Data and Automate Customer Support

TEACHING EXPERIENCE

Academic Mentor

Jan 2023 - Present

[FPT FUNIX](#)

- *Basics of Machine Learning*

Teaching Assistant

Apr 2023 - Present

[College of Engineering and Computer Science, VinUniversity](#)

- *Introduction to Programming (COMP1010)*
- *Undergraduate Research Opportunities Program (UROP)*

SELECTED PUBLICATIONS

SUBMITTED/UNDER REVIEW

Khiem Le-Huy, Long Ho-Tuan, Cuong Do-Danh, Danh Le-Phuoc, Kok-Seng Wong
[Efficiently Assemble Normalization Layers and Regularization for Federated Domain Generalization](#)
Submitted to **IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2024)**

Kok-Seng Wong*, Manh Nguyen-Duc*, **Khiem Le-Huy***, Long Ho-Tuan, Cuong Do-Danh, Danh Le-Phuoc
[An Empirical Study of Federated Learning on IoT-Edge Devices: Resource Allocation and Heterogeneity](#)
Submitted to **IEEE Transactions on Neural Networks and Learning Systems**

PUBLISHED

GT Do, **KH Le**, TT Nguyen, QH Pham, BT Nguyen, TN Doan, C Liu, R Savitha, X Li, SCH Hoi
[HyperRouter: Toward Efficient Training and Inference of Sparse Mixture of Experts via HyperNetwork](#)
The Conference on Empirical Methods in Natural Language Processing (EMNLP 2023)

Khiem H. Le, Hieu H. Pham, Thao BT. Nguyen, Tu A. Nguyen, Tien N. Thanh, Cuong D. Do
[Enhancing Deep Learning-Based 3-Lead ECG Classification with Heartbeat Counting and Demographic Data](#)
IEEE/EMBS Conference on Biomedical Engineering and Sciences (IECBES 2022)

Khiem H. Le, Hieu H. Pham, Thao BT. Nguyen, Tu A. Nguyen, Tien N. Thanh, Cuong D. Do
[LightX3ECG: A Lightweight and Explainable Deep Learning System for 3-Lead Electrocardiogram Classification](#)
Biomedical Signal Processing and Control

Khiem H. Le*, Tuan V. Tran*, Hieu H. Pham, Hieu T. Nguyen, Tung T. Le, Ha Q. Nguyen
[Learning from Multiple Expert Annotators for Enhancing Anomaly Detection in Medical Image Analysis](#)
IEEE Access

Cuong V. Nguyen, **Khiem H. Le**, Anh M. Tran, Quang H. Pham, Binh T. Nguyen
[Learning for Amalgamation: A Multi-Source Transfer Learning Framework for Sentiment Classification](#)
Information Sciences

STUDENT ACHIEVEMENTS

Salutatorian	VNU-HCM University of Science Entrance Exam 2017
Gold Medalist	20 th Vietnam Southern Mathematical Olympiad for High School Students 2015

LANGUAGES

Vietnamese	Native
English	IELTS Overall Score: 6.5

REFERENCES

Kok-Seng Wong, Ph.D	Associate Professor College of Engineering and Computer Science, Vinuniversity wong.ks@vinuni.edu.vn
Binh T. Nguyen, Ph.D	Associate Professor Faculty of Mathematics and Computer Science, VNUHCM - University of Science ngtbinh@hcmus.edu.vn