

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 - Dec 2023

[Security and Artificial Intelligence Lab](#)

VinUniversity

- *Project:* Federated Learning and More
Study Different Machine Learning Problems Under the Federated Learning Setting
- *Project:* Federated Learning for Internet of Things
Explore the Practicality of Federated Learning Deployment on Internet of Things Devices

Research Assistant

Jan 2022 - Dec 2022

[VinUni-Illinois Smart Health Center](#)

VinUniversity

- *Project:* Classification of Reduced-Lead ECGs
Automatically Identify Cardiac Abnormalities in Reduced-Lead ECG Recordings

Research Assistant

Oct 2020 - Dec 2021

[Smart Health Center at VinBigData](#)

VinBigData Institution

- *Project:* Chest X-ray Abnormalities Detection
Automatically Localize and Classify Thoracic Abnormalities in Chest Radiographs

Research Intern

Jan 2020 - Sep 2020

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

VNUHCM - University of Science

- *Project:* Industrial 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

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](#)
[arXiv:2305.19831](#)

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 2023 Conference on Empirical Methods in Natural Language Processing

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

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, Volume 85, 2023

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, Volume 11, 2023

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, Volume 590, 2022

STUDENT ACHIEVEMENTS

Salutatorian	VNUHCM - 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 of 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