

# Khanh-Vinh Nguyen

**Links:** Website LinkedIn Google Scholar Scopus

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**Location:** Ishikawa, Japan

## RESEARCH INTERESTS

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My current research is the intersection between **Sentiment Analysis** and **Text Summarization** or some research call it **Opinion Summarization**, I also interest in other challenges of Natural Language Processing (NLP).

## EDUCATION

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- **Japan Advanced Institute of Science and Technology** 2024 – Present
  - *MSc in Information Systems; GPA: 88.67/100*
  - **Thesis:** Weakly Supervised Opinion Summarization with Focus on Implicit Aspects
- **VNU University of Engineering and Technology** 2022 – 2024
  - *MSc in Information Systems; GPA: 3.84/4.00*
  - Transferred student to Japan Advanced Institute of Science and Technology
- **National Economics University** 2018 – June 2022
  - *BSc in Information Technology; GPA: 3.41/4.00 (Top 3 - Distinction graduation)*
  - **Thesis:** Construction and Development of the BEEBOVOCAB Vocabulary Learning Support System Based on Frequency Studies and User Interactions

## CAREER EXPERIENCE

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- **Asian Institute of Digital Finance, NUS Singapore** June 2024 – August 2024
  - *Research Intern*
  - Participating in enhancing the default forecasting models of Vietnamese SMEs by applying novel approaches based on text information.
  - Improving the quality of the corpus by the introduction of additional linguistic textual features, modeling and testing of the emotion recognition system specific to the Vietnamese language, and improving the process of database filling explaining the capabilities of working with vast amounts of information. I have achieved significant results by optimizing the data processing time 10 times faster than before.
  - Joining in the Vietnam Credit Rating Project (VNCR) which contributed to the enhancement of credit risk assessment of local SMEs. Otherwise, I have preprocessed a large financial dataset provided by a Vietnamese partner.
- **VNU University of Engineering and Technology** 2023 – 2024
  - *Teaching Assistant*
  - Taught 2 Database Administration courses for 75 students
  - Taught 4 Information Technology Foundation courses for 80 students
- **Data Science and Knowledge Technology Laboratory (FIT, VNU UET)** 2023 – 2024
  - *Research Assistant*
  - Participated in 2 Datathon including Woman in Data Science (WiDS) Hackathon, Shecodes Hackathon Vietnam and a MEDIQA 2023 shared task
  - Supported and helped the supervisor to keep track research group of 4 students in the opinion mining field

- Researched text summarization problems that focus on biomedical, and opinion-mining tasks that focus on aspect-based product reviews

## • **Giaohangtietkiem Jsc.**





2021 – 2023

### • *Software Engineer*

- Joined the Customer Service department which provides applications to enhance the convenience of customers when using Giaohangtietkiem service as a Web Engineer.
- Participated in developing and maintaining 7 projects of the CS team, including 2 essential projects of collaboration between Giaohangtietkiem Jsc. company and Apple Inc. (Order management system and Customer web system)

## PUBLICATIONS

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- [1] Duy-Cat Can, Quoc-An Nguyen, Binh-Nguyen Nguyen, Minh-Quang Nguyen, **Khanh-Vinh Nguyen**, Trung-Hieu Do, and Hoang-Quynh Le. Uetcorn at mediqa-sum 2023: Template-based summarization for clinical note generation from doctor-patient conversation. 2023 DOI 
- [2] **Khanh-Vinh Nguyen**, Quoc-An Nguyen, Hoang-Quynh Le, and Duy-Cat Can. Forecast: Improving extreme weather forecasts with deep neural decision forest for climate change adaptation. In *15th International Conference on Knowledge and Systems Engineering (KSE)*, 2023 
- [3] Quoc-An Nguyen, **Khanh-Vinh Nguyen**, Hoang-Quynh Le, Duy-Cat Can, Tam Doan-Thanh, Trung-Hieu Do, and Mai-Vu Tran. Integrating ontology-based knowledge to improve biomedical multi-document summarization model. In *15th Asian Conference on Intelligent Information and Database Systems*, 2023 Link Springer
- [4] **Khanh-Vinh Nguyen**, Thanh-Tam Doan, Quang-Thuy Ha, and Mai-Vu Tran. Enhancing generative models with hierarchical architecture for automated product advertising content generation. In *International Conference on Knowledge and Systems Engineering*, 2024 
- [5] Hoang-Quynh Le, Duy-Cat Can, **Khanh-Vinh Nguyen**, and Mai-Vu Tran. Overview of the vlsp 2023–comom shared task: A data challenge for comparative opinion mining from vietnamese product reviews. 2024 Arxiv 

## AWARDS, HONORS, AND SCHOLARSHIPS

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- **Domestic Master’s Scholarship** from Domestic Master’s and Doctoral Training Scholarship Program of Vingroup Innovation Foundation Funding 2023
- **Runner-up presentation** at Summer school on Modern Machine Learning: Foundations and Applications hosted by The School of Information and Communication Technology - Hanoi University of Science and Technology Vietnam 2023
- **Top 2 worldwide** at the MEDIQA 2023 Shared Tasks (MEDIQA-Sum 2023 tasks) focus on the automatic summarization and classification of doctor-patient encounters to generate clinical notes
- **Top 3 Vietnam, top 3% worldwide** at the WiDS Datathon 2023 hosted by Stanford University
- **Top 3 Vietnam** at the Shecodes Hackathon 2022 hosted by Shecodes Vietnam
- **Outstanding undergraduate student award** from 2018 – 2019 awarded by the National Economics University
- **Consolation Prize** at Scientific Research of National Economics University
- **Excellent internship** at Masterdev Program of Giaohangtietkiem JSC
- **Annual Scholarship for outstanding students** in 2018 – 2019 and 2020 – 2021 semester granted by National Economics University; covered 80% tuition fee for outstanding students

## EXTRACURRICULAR ACTIVITIES

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- **Mentor of Data Science** at Maths and Science Summer Program (MaSSP) 2024
- **Organizer** at Comparative Opinion Mining shared task at Vietnamese Language and Speech Processing 2023
- **Attendee** at Summer school on Modern Machine Learning: Foundations and Applications hosted by The School of Information and Communication Technology - Hanoi University of Science and Technology Vietnam 2023
- **Vice monitor** of Information Technology 60B class in National Economics University from 2018-2021
- **Attendee** at Humber Global Think Tank for our Thriving Planet

## SKILLS

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- **Python Packages:** Pytorch, Numpy, Scipy, Scikit-Learn, Pandas, Seaborn, Matplotlib, Beautiful Soup, NLTK, SpaCy.
- **Programming Languages:** Python, PHP, JavaScript.
- **Soft skills:** Adaptability, communication, self-motivation, teamwork.
- **Language:** Vietnamese (Native), English (6.5 IELTS).

## REFERENCES

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**SHIRAI Kiyooki, PhD**

Japan Advanced Institute of Science and Technology,  
kshirai@jaist.ac.jp