

# DO Dinh Hieu

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## EDUCATION

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### SMU School of Computing and Information Systems

Singapore

*PhD in Computer Science*

*August 2020 – July 2025 (Expected)*

**Research Topic:** Modeling Multiple Tasks in Recommendation Systems

### VNU University of Engineering and Technology

Hanoi, Vietnam

*BSc in Computer Science*

*August 2016 – July 2020*

*(Summa Cum Laude; Excellent Thesis Award)*

**Thesis:** Vietnamese News Recommendation Using Language Model

## PUBLICATIONS

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### Compositions of Variant Experts for Integrating Short-Term and Long-Term Preferences

Under review

*Jaime Hieu Do, Trung-Hoang Le, and Hady W. Lauw*

### Dual-Target Disjointed Cross-Domain Recommendation Mediated via Latent User Preferences

June 2025

*Jaime Hieu Do and Hady W. Lauw*

To appear at SIGKDD Explorations 2025

### Continual Collaborative Filtering Through Gradient Alignment

September 2023

*Jaime Hieu Do and Hady W. Lauw*

Proceedings of the 17th ACM Conference on Recommender Systems (RecSys'23)

## PROJECTS

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### Cornac | [GitHub](#) ~960 stars | Contributor

- Description: Cornac is a flexible framework for multimodal recommender systems. It is **recommended by ACM RecSys 2023** for evaluating and reproducing recommendation algorithms.
- Developed and optimized **PyTorch backend** for classical recommendation models (MF, FM, NCF), achieving competitive performance with Cython/C++ implementations, enhancing usability for advanced customization.
- Designed and implemented an **end-to-end pipeline for session-based recommendation**, encompassing data processing, model training, and evaluation with popular baselines like GRU4Rec, SASRec, and BERT4Rec.

## PRIOR WORK EXPERIENCE

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### APII JSC | AI Engineer Intern | May 2019 – April 2020 | Hanoi, Vietnam

- Developed various models, including **linear regression**, **ARIMA**, **XGBoost** to predict future user spending.
- Created a **real-time face recognition** system with **InsightFace embeddings** and a **cosine k-NN classifier**.
- Built a **Vietnamese news recommender system** powered by a **language model trained from scratch**.

## AWARDS & ACHIEVEMENTS

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**PhD Full Scholarship** from Ministry of Education, Singapore, 2020 – 2025

**Excellent Thesis Award** VNU University of Engineering and Technology, 2020

**#7 in Hate Speech Detection Competition:** Vietnamese Language and Speech Processing 2019

**Full Scholarship** for top 5% excellent students, University of Engineering and Technology, 2016 – 2020

**Bronze Medal** Vietnam National Online Math Contest, Vi-Olympic 2015 – 2016

## ACADEMIC SERVICES & SKILLS

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**Reviewer:** TORS

**Skills:** Machine learning, recommendation systems, deep learning

**Programming Languages:** Python, PyTorch