DO Dinh Hieu

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EDUCATION

SMU School of Computing and Information Systems — Singapore
PhD in Computer Science — *August 2020 − July 2025*
   Dissertation: 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

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
   ACM SIGKDD Explorations Newsletter, Volume 27, Issue 1

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

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 **sequential recommendation**, encompassing data processing, model training, and evaluation with Transformer-based baselines like BERT4Rec and GPT4Rec.

PRIOR WORK EXPERIENCE

OSP 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

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

Reviewer: TORS

Programming Languagues: Python, PyTorch

Skills: Machine Learning, Recommender Systems, Deep Learning, Mixture-of-Experts, Transformers, Generative Models