Bao Truong

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My Dinh 1 Street, Nam Tu Liem District, Hanoi, Vietnam

Education

- **Hanoi University of Science and Technology (HUST)** *Hanoi, Vietnam*
  BS in Automation and Control Engineering - CPA: 3.67/4.00 - Excellent Degree Sep 2021 - September 2025
- **Hatinh High School for Gifted Students** *Hatinh, Vietnam*
  Gifted class in Mathematics Sep 2018 - July 2021

Experience

- **AI Researcher** ***Computer Vision***
  FPT Software AI Center, Hanoi, Vietnam May 2025 - present
  - Focusing on Seismic Imaging, Image Restoration.
  - Exploring Multimodal Learning, Representation Learning and AI for Robotics.

- **AI Engineer** ***Automatic Speech Recognition***
  VinBigData Joint Stock Company, Hanoi, Vietnam July 2024 - May 2025
  - Built a framework for generating a structured dataset using LLMs in a text-based format that served as the foundation for training the CallBot, ensuring it learns accurate conversation patterns, function callings, and appropriate responses within the customer domains
  - Conducted researching, propose, and implement suitable design patterns for automatically inferring and evaluating Speech2Speech models.

- **Research Assistant** ***Computer Vision***
  Image Processing and Signal Analysis Laboratory, HUST, Hanoi, Vietnam [🌐] May 2023 - present
  - Deep research on Medical Image Segmentation, Signal Processing.

Publications

[1]] **Bao Truong**, Quang Nguyen, Baoru Huang, Jinpei Han, Van Nguyen, Ngan Le, Minh-Tan Pham, Doan Duy Hien, Anh Nguyen:
"SIGMA: A Physics-Based Benchmark for Gas Chimney Understanding in Seismic Images".
CVPR 2026.

[2]] Viet-Thanh Nguyen, **Gia-Bao Truong**, Van-Truong Pham, Thi-Thao Tran:
"1S-MambaMatch: A semi-supervised and One-shot learning framework with Multi-input Visual State Space Model for skin lesion segmentation".
Biomedical Signal Processing and Control.
https://doi.org/10.1016/j.bspc.2026.109875

[3]] Van Quang Nguyen, Thi-Thao Tran, **Gia-Bao Truong**, Nhu-Linh Than, Van-Truong Pham:
"Dense Attention Mamba-based Network with Adaptive Sigmoid Fowlkes-Mallows Loss for Enhanced Medical Image Segmentation".
Image and Vision Computing.
https://doi.org/10.1016/j.imavis.2025.105778

[4]] **Gia-Bao Truong**, Thi-Thao Tran, Nhu-Linh Than, Van Quang Nguyen, Thi-Hue Nguyen, Van-Truong Pham:
"SC-MambaFew: Few-shot learning based on Mamba and selective spatial-channel attention for bearing fault diagnosis".
Computers and Electrical Engineering.
https://doi.org/10.1016/j.compeleceng.2024.110004

[5]] Nhu-Linh Than, Van Quang Nguyen, **Gia-Bao Truong**, Van-Truong Pham and Thi-Thao Tran:
"MixMamba-Fewshot: Mamba and Attention Mixer-based Method with Few-Shot Learning for Bearing Fault Diagnosis".
Applied Intelligence.
https://doi.org/10.1007/s10489-025-06361-0

Honors and Awards

- **First Prize in Scientific Research Student Award**
  The 42nd HUST Annual Student Research Conference in 2025
- **Academic Excellence Scholarship**
  HUST

References

1. **Assoc. Prof. Anh Nguyen**
   Department of Computer Science,
   University of Liverpool.
   Email: anh.nguyen@liverpool.ac.uk
   Bio; Google Scholar

2. **Assoc. Prof. Van-Truong Pham**
   Department of Control Engineering and Automation,
   School of Electrical and Electronic Engineering, Hanoi University of Science and Technology.
   Email: truong.phamvan@hust.edu.vn
   Bio; Google Scholar

3. **Assoc. Prof. Thi-Thao Tran**
   Department of Control Engineering and Automation,
   School of Electrical and Electronic Engineering, Hanoi University of Science and Technology.
   Email: thao.tranthi@hust.edu.vn
   Bio; Google Scholar