








Tran Quang Chung, PhD Student

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Education




- Apr 2024 – 2025  **Ph.D Studen, Nara Institute of Science and Technology (NAIST)**
Thesis title: *Multimodal Speech Synthesis: Leveraging Diverse Sources of Text, Images, and Brain Signals.*
- 2022 – Mar 2024  **Ph.D Studen, Japan Advanced Institute of Science and Technology (JAIST)**
Thesis title: *Multimodal Speech Synthesis: Leveraging Diverse Sources of Text, Images, and Brain Signals.*
- 2019 – 2021  **M.Sc. Computer Science, Hanoi University of Science and Technology**
Thesis title: *An Improved UNets Architecture and Its Applications.*
- 2014 – 2019  **B.Sc. Computer Science, Hanoi University of Science and Technology**
Thesis title: *Stock price prediction based on deep neural networks.*

Employment History

- 2021-2022  **AI Leader and Research** at Rikkei AI.
- 2019-now  **AI Research** at Computer Science Lab - Hanoi University of Science and Technology (HUST).
- 2018-2020  **AI Leader and AI Engineer** at Vietnam Artificial Intelligence Solutions (VAIS).

Research Publications

Journal Articles

- 1 Ngoc, P. P., **Quang, Chung Tran**, & Chi, M. L. (o). Improving few-shot multi-speaker text-to-speech adaptive-based with extracting mel-vector (emv) for vietnamese. *International Journal of Asian Language Processing*, o(ja), null.  doi:10.1142/S2717554523500042. eprint: <https://doi.org/10.1142/S2717554523500042>
- 2 Ngoc, P. P., **Quang, Chung Tran**, & Chi, M. L. (2023). Adapt-tts: High-quality zero-shot multi-speaker text-to-speech adaptive-based for vietnamese. *Journal of Computer Science and Cybernetics*, 39(2), 159–173. Retrieved from  <https://vjs.ac.vn/index.php/jcc/article/view/18136>
- 3 Na, I. S., **Chung Tran**, Nguyen, D., & Dinh, S. (2020). Facial UV map completion for pose-invariant face recognition: A novel adversarial approach based on coupled attention residual unets. *Hum. centric Comput. Inf. Sci.*, 10, 45.  doi:10.1186/s13673-020-00250-w

Conference Proceedings

- 1 **Chung Tran**, Luong, C. M., & Sakti, S. (2024). Maintaining Personal Styles in Multilingual TTS with STEN Approach in Diffusion Framework. In *Asj 2024*.

- 2 **Chung Tran**, Luong, C. M., & Sakti, S. (2023). STEN-TTS: Improving Zero-shot Cross-Lingual Transfer for Multi-Lingual TTS with Style-Enhanced Normalization Diffusion Framework. In *Proc. interspeech 2023* (pp. 4464–4468). [doi:10.21437/Interspeech.2023-2243](https://doi.org/10.21437/Interspeech.2023-2243)
- 3 Phuong Pham Ngoc, **Chung Tran**, & Mai Luong Chi. (2022). Improving a few-shot multi-speaker text-to-speech adaptative-based with extracting mel-vector (emv) for vietnamese. In *The 25th conference of the o-cocosda*.
- 4 **Chung Tran**, Quang Minh Nguyen, Phuong Pham Ngoc, & Quoc Truong Do. (2021). Improving speaker verification in noisy environment using dnn classifier. In *The 15th ieee-rivf international conference on computing and communication technologies* (pp. 1–6).
- 5 Phuong Pham Ngoc, **Chung Tran**, Truong Do Quoc, & Mai Luong Chi. (2021). A study on neural-network-based text-to-speech adaptation techniques for vietnamese. In *The 24th conference of the oriental cocosda*.
- 6 Ngoc Phuong Pham, **Chung Tran**, Nguyen Quang Minh, & Do Quoc Truong. (2020, December). Improving prosodic phrasing of Vietnamese text-to-speech systems. In *Proceedings of the 7th international workshop on vietnamese language and speech processing* (pp. 19–23). Hanoi, Vietnam: Association for Computational Linguistics. Retrieved from <https://www.aclweb.org/anthology/2020.vlsp-1.4>
- 7 **Chung Tran**, Huyen, H. C., & Sang, D. V. (2020). A novel generative model to synthesize face images for pose-invariant face recognition. In *2020 international conference on multimedia analysis and pattern recognition (mapr)* (pp. 1–6). [doi:10.1109/MAPR49794.2020.9237763](https://doi.org/10.1109/MAPR49794.2020.9237763)
- 8 Sang, D. V., **Chung Tran**, Dung, N. D., & Na, I. S. (2020). Attention rescunet-gan: A novel facial uv map completion for pose-invariant face recognition. In *Hcis workshop 2020*.

Research Experience

Project Name	Year	Description
Vietnamese ASR (Automatic speech recognition)	2020-now	Model: HMM-DNN, wav2vec 2.0 Tool: SpeechBrain Role: Collect data, implement and deploy the model
Text to Speech	2020-now	Model: FastSpeech2, VITS, YourTTS, STEN-TTS Role: collect data, implement and deploy the model Publication: Interspeech2023, CSC Journal 2023, International Journal ALP 2023, Cocosda-2021, VLSP 2020
Speaker Recognition	2020-2021	Model: Thin Resnet-34 and Ecapa-TDNN Role: Finetune for Vietnamese voice Publication: RIVF-2021
Vietnamese NMT (Neural machine translation)	2020-2021	Model: Transformer Tool: Tensor2Tensor Role Collect data (Vietnamese, Chinese, English) Implement and deploy the model

Research Experience

Project Name	Year	Description
Face Recognition and Recognition	2019-now	Model: Attention ResCUNET Role: Implement and propose new ideas Publication: MAPR-2020, HCIS 2020, SCI-Journal Q1
Polyp Segmentation	2020-now	Model: Propose the new methods/ideas https://github.com/tranquangchung/AG-CUResNeSt
Image Captioning	2021-2022	Model: Show Attend and Tell
Image to Speech	2022-now	Role: Propose new models to improve the performance

Research Topic

- Deep learning, Machine learning, Computer Vision, Natural Language Processing, Speech Processing.

Skills

- Coding
 - Python, C/C++, NodeJS, \LaTeX , ...
- Databases
 - MySQL, PostgreSQL
- Systems
 - Linux Operating System, Docker, Microservice
- Misc.
 - Academic research, teaching, training, consultation.

Miscellaneous Experience

Awards and Achievements

- Aug 2022
 - Japanese Government (MEXT) Scholarship for PhD Student at JAIST.
- Dec 2020
 - Third Rank for VLSP Competition for the machine translation task.
- Nov 2019
 - The first prize in information technology field for Vietnam Talent Program.
- Jan 2019
 - Top1 in VietAI Machine Learning Class.
- Nov 2018
 - The second prize of Cinnamon Intelligence Program.