Tran Quang Chung, PhD Student

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Education

2022 – 2025 **Ph.D Student, 1.5 year at JAIST + 1.5 year at NAIST**
Thesis title: *Multimodal Speech Synthesis: Leveraging Diverse Sources of Text, Images.*

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**

Employment History

2021-2022 **AI Research** at Rikkei AI.

2019-now **AI Research** at Computer Science Lab - Hanoi University of Science and Technology (HUST).

2018-2020 **AI Engineer** at Vietnam Artificial Intelligence Solutions (VAIS).

Research Publications

Journal Articles

1. 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**, & Sakriani Sakti. (2025). From Pixels to Voice: A Simple and Efficient End-to-End Spoken Image Description Approach via Vision Codec Language Models. In *ICASSP 2025*.
2. Ahmad Alfani Handoyo, **Chung Tran**, Dessi Puji Lestari, & Sakriani Sakti. (2024). Indonesian-English Code-Switching Speech Synthesizer Utilizing Multilingual STEN-TTS and BERT LID. In *O-COCOSDA 2024*.
3. **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 *INTERSPEECH 2023* (pp. 4464–4468). doi:10.21437/Interspeech.2023-2243
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*.
5. **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)*. doi:10.1109/MAPR49794.2020.9237763
6. 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: 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**
Speaker Recognition	2020-2021	Model: Thin Resnet-34 and Ecapa-TDNN Role: Finetune for Vietnamese voice **Publication: RIVF-2021**
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	2020-2022	Model: Propose the new methods/ideas https://github.com/tranquangchung/AG-CUResNeSt
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	**The prestigious Japanese Government (MEXT) Scholarship** for PhD Student at JAIST.
Nov 2021	Runner-up in the hackathon organized by AngelHack
Dec 2020	Third Rank for VLSP Competition for the machine translation task.
Nov 2019	**Prestigious prize in the field of Information Technology** from the Vietnam Talent Program.
Jan 2019	Top1 in VietAI Machine Learning Class.
Nov 2018	Runner-up of Cinnamon Intelligence Program.