Hoang-Son Vo

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About

Hello, my name is Hoang Son. I'm an artificial intelligence researcher and engineer from **Viet Nam**/ I finished my bachelor of science in IT degree **@HUFLIT**/ Now, I'm studying for a master's degree in AI Convergence **@CNU**/ I have recently been focusing on computer vision, particularly in the areas of medical image processing and emotion-driven vision generation/ You can find more of my information **@sowwn.dev**

Research Interests

- Computer Vision: Medical Imaging; Image Enhancement; Multimedia Generation; 3D

- Human-Computer Interaction: in Education; in Health; Brain-Computer Interfaces.

Education

2024 - 2026: College of AI Convergence - Chonnam National University (Korea)

- Degree: Master of Science in Artificial Intelligence (Expected Feb 2026), GPA: **4.36/4.5**

- Thesis: "Towards Realistic Audio-Driven Talking Head Generation: From Movement Generation to Emotion-Controllable Synthesis." advised by **Prof. Soo-Hyung Kim.**

- Certificate:
    - Global scholarship
    - Gold Award @ 2025 AI Hackathon & Industry-Academia Collaboration Competition

2019 - 2023: Faculty of Information Technology - HUFLIT (Viet Nam)

- Degree: Bachelor of Information Technology

- Thesis: "Brain Tumor Detection using Deep Learning". advised by **MSc. Tran Nguyen Quynh Tram**, co-advised by **PhD Nhu-Tai Do** (Grade: 9,5/10)

- Certificate:
    - Excellent student (Top 1) of academic year 2022-2023
    - Talented student scholarship

Work Experience

2024:
- Research Assistant @ PRLab (https://prlabjnu.github.io/) - Present
- AI Consultant (Freelancer) @ V-Star Data (https://v-stardata.com/) - Present

2023:
- AI Engineer at Octokit @ Marvy Co. (https://octokit.co/)
- AI Engineer at CVLab @ Wisdom Robotics (https://wisdomrobotics.org/)
- Project Developer (Internship) @ DKiV (http://dkiv.vn/)

Reference

- **Professor Soo-Hyung Kim -** shkim@jnu.ac.kr
    - Vice President for Research, Chonnam National University, Republic of Korea
    - Advisor, Pattern Recognition Laboratory (PRLab)
- **Professor Soonja Yeom -** soonja.yeom@utas.edu.au

- Senior Lecturer, School of ICT, University of Tasmania, Australia
- **PhD Nhu-Tai Do -** donhutai@gmail.com
  - Lecturer of Department of Information Technology, Saigon University, Vietnam

Research Experiments

- **Reviewer:** @ ICME 2025; @ AVSS 2025; @ ICASSP 2025

- **Publication:** †: Equal Distribution \ *Highlight*

2025	• **Hoang-Son Vo,** Karina Kolmogortseva, Ngumimi Karen Iyortsuun, Hong-Duyen Vo, Soo-Hyung Kim. "GlobalizeEd: A Multimodal Translation System that Preserves Speaker Identity in Academic Lectures". (Under review) • **Hoang-Son Vo**, Quang-Vinh Nguyen, Minh-Duc Nguyen, Soo-Huyng Kim. "Image Sequentialization via Mamba-based Encoder for Contrastive Radiology Report Generation". (Under review) • **Hoang-Son Vo**, Hyung-Jeong Yang and Soo-Hyung Kim. "Emotionally Disentangled Talking Head Generation with Vector Quantization and Attention Fusion". (Under review) • **Hoang-Son Vo**, Quang-Vinh Nguyen, Soonja Yeom, and Soo-Hyung Kim. "ATL-Diff: Audio-Driven Talking Head Generation with Early Landmarks-Guide Noise Diffusion" *2025 IEEE International Conference on Advanced Visual and Signal Based System (AVSS 2025)* Tainan, Taiwan, 2025 • Quang Vinh Nguyen, Minh Duc Nguyen, **Hoang-Son Vo**, Hyung-Jeong Yang, and Soo-Hyung Kim, "ANATOMICAL ATTENTION ALIGNMENT REPRESENTATION FOR RADIOLOGY REPORT GENERATION" *2025 IEEE International Conference on Image Processing (ICIP 2025)*, Anchorage, Alaska, 2025
2024:	• Quang Vinh Nguyen, **Hoang-Son Vo**, Sae-Ryung Kang and Soo-Hyung Kim, "Polyp-SES: Automatic Polyp Segmentation with Self-Enriched Semantic Model," *Proc. Asian Conf. Computer Vision (ACCV 2024)*, Hanoi, Vietnam, 2024. doi.org/10.1007/978-981-96-0901-7_11 • **Hoang-Son Vo**, Nguyen, Q.-V., Yang, H.-J., Shin, J., Kim, S.-H., n.d. ***"Individual Audio-Driven Talking Head Generation based on Sequence of Landmark."*** in ACK 2024: Annual Conference of KIPS, pp. 553-556, Gwangju, Korea. 2024. https://doi.org/10.3745/PKIPS.y2024m10a.553 • Quang Vinh Nguyen, **Hoang-Son Vo**, Hoang Chau Truong Vinh, Duc Duy Nguyen, Nhat Huy Nguyen Minh and Soo-Hyung Kim, "Rethinking Top Probability from Multi-view for Distracted Driver Behavior Localization," *Proc. 12th Int. Conf. Bigdata Applications and Services* (BIGDAS 2024), pp. 103-112, Jeju, Korea, Aug. 2024. (Best Paper Award)
2023:	• Nhu-Tai Do†, **Hoang-Son Vo**†, Tram-Tran Nguyen-Quynh†, and Soo-Hyung Kim, ***"3D-DDA: 3D Dual-Domain Attention for Brain Tumor Segmentation,"*** *2023 IEEE International Conference on Image Processing (ICIP)*, Kuala Lumpur, Malaysia, 2023, pp. 3215-3219, https://doi.org/10.1109/ICIP49359.2023.10222602 • **Hoang-Son Vo**, Tram-Tran Nguyen-Quynh, Nhu-Tai Do, and Soo-Hyung Kim, "***3D Dual-Fusion Attention Network: A fusion attention network for Brain Tumor Segmentation***," in ASK 2023 : Annual Spring Conference of KIPS, pp. 496–498, 2023. https://doi.org/10.3745/PKIPS.y2023m05a.496 • Tai Do Nhu†, **Hoang-Son Vo**†, Tram Tran Nguyen Quynh, Huy Nguyen Thanh, Thanh Nguyen Thi Ngoc, Huy Nguyen Quoc and Soo-Hyung Kim, "**Brain Tumor segmentation based on deep supervision and context feature fusion",** The 16th National Conference on Fundamental and Applied IT Research, FAIR'2023. https://doi.org/110.15625/vap.2023.0017 • **Hoang-Son Vo**, Tram Tran Nguyen Quynh, Huy Nguyen Quoc and Tai Do Nhu, "DCDynUnet: Deep Supervision Attention Context for Brain Segmentation", in Advances in Information and Communication Technology, ICTA 2023. Lecture Notes in Networks and Systems, vol 847. Springer, https://doi.org/10.1007/978-3-031-49529-817.