Ngoc Hung Le

Graduate Researcher | AI Security Research Center, Soongsil University | Seoul, South Korea
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RESEARCH INTERESTS

Speech Privacy and Speaker Anonymization; Neural Speech Synthesis; Speaker Re-identification and Audio Forensics; Audio Deepfake Detection and Explainability; Trustworthy and Robust Speech AI.

EDUCATION

Soongsil University, Seoul, South Korea *Expected Feb. 2027*
M.S. in Information and Telecommunication Engineering **GPA: 4.40/4.50**
Thesis: *A Study on Tunable Privacy-Utility Trade-offs in Speaker Anonymization.* Advisor: Prof. Souhwan Jung.

FPT University, Hanoi, Vietnam *2021–2024*
B.S. in Software Engineering **GPA: 8.53/10**

ACADEMIC EXPERIENCE

AI Security Research Center, Soongsil University *2025–present*
Graduate Researcher Seoul, South Korea

- Developed a speaker anonymization framework combining self-supervised representations, discrete tokenization, and conditional flow matching, outperforming VoicePrivacy 2024 baselines in privacy-utility trade-offs.
- Developed a speaker re-identification attack using multi-backend score fusion and Whisper features, achieving state-of-the-art performance (16.2% EER) on SSTC benchmark.
- Developed an ASR-NER-SE pipeline for Korean speech pseudonymization, achieving a 93% PII removal rate.
- Developed a Korean speech-editing dataset that challenged ADD systems, yielding a 15.03% Equal Error Rate (EER) even after retraining.

PROFESSIONAL EXPERIENCE

LG CNS, Hanoi, Vietnam *2024-2025*
Backend Developer

- Developed enterprise systems for workload automation J-Jobs and ESG reporting using Java/Spring; reduced build time by 80% through Gradle optimization and ranked top five in the PCCP coding contest. [J-Jobs]

PUBLICATIONS & DEMONSTRATION

Ngoc Hung Le, Thien-Phuc Doan, Thien An Nguyen, Kyujin Kim, and Souhwan Jung. "VerAno: Speaker Anonymization via Self-Supervised Tokenization and Conditional Flow Matching." *Interspeech*, 2026. [Article]

Ngoc Hung Le, Kyujin Kim, Sangjun Park, and Souhwan Jung. "AISRC System Description for Voice Privacy 2026 Challenge." *6th Symposium on Security and Privacy in Speech Communication (SPSC)*, 2026. [Article]

Sangjun Park, **Ngoc Hung Le**, Kyujin Kim, and Souhwan Jung. "Speech Pseudonymization in Korean: Seamless PII Substitution via Localized Speech Editing." *World Conference on Information Security Applications (WISA)*, 2026. [Article]

Ngoc Hung Le, Kyujin Kim, Sangjun Park, Yowon Lee, An Thien Nguyen, and Souhwan Jung. "Semantic-Aware Speech Anonymization via Neural Codec Editing." *IEEE ICASSP Industry Program*, 2026. [Demonstration]

Ngoc Hung Le, Thien An Nguyen, Thien-Phuc Doan, Sangjun Park, and Souhwan Jung. "VerAno-TC: Non-Autoregressive Token Conversion for Expressive Speaker Anonymization." *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, 2027. Under review.

SCHOLARSHIP & RESEARCH RECOGNITION

VoicePrivacy Challenge 2026 - First place in emotion preservation, English and multilingual tracks. [Official challenge overview] [Certificate]

Full Master's Scholarship, Soongsil University, South Korea.

LANGUAGES

Vietnamese (native) | English (IELTS overall 7.5) | Korean (TOPIK level 4).

REFERENCES

Dr. Souhwan Jung | souhwanj@ssu.ac.kr | Google Scholar

Dr. Thien-Phuc Doan | phucdt@ssu.ac.kr | Google Scholar

Dr. An Thien Nguyen | anthienng1995@soongsil.ac.kr | Google Scholar