

Che Hyun Lee

saga1214@snu.ac.kr • <https://www.linkedin.com/in/saga1214> • <https://scholar.google.com/citations?user=DDI2oS8AAAAJ>

EDUCATION

Seoul National University, Seoul, Korea

- B.S. in Electrical & Computer Engineering Mar 2014 – Feb 2020
 - Focus: Machine Learning, Deep Learning
 - Cumulative GPA: 3.74 / 4.3 (Cum Laude)
- M.S. in Graduate School of Data Science Mar 2020 – Feb 2022
 - Focus: Machine Learning, Deep Learning, Natural Language Processing, Data Science
 - Cumulative GPA: 4.1 / 4.3
- Ph.D. Candidate in Electrical & Computer Engineering Mar 2022 –
 - Focus: Spoken Dialogue Systems, Diffusion Language Models, Spoken Language Models (SLMs), Diffusion-based Generative Models
 - Cumulative GPA: 3.9 / 4.3

RESEARCH INTERESTS

Spoken Dialogue Systems, Diffusion Language Models, Spoken Language Models (SLMs), Diffusion-based Generative Models

PUBLICATIONS

FIRST-AUTHOR PUBLICATIONS

- [1] C. Lee, S. Park, D. Kang, D. Lee, Y. Cho, H. Kim, S. Yoon, “Phrase-Localized Language-Contrastive Guidance: Training-Free Localized Accent Control for Code-Switching Text-to-Speech,” in **EMNLP 2026, Oral Presentation**, Budapest, Hungary, Oct 2026.
- [2] C. Lee, H. Kim, S. Yoon, “From Awareness to Adherence: Bridging the Context Gap in Spoken Dialogue Systems via Context-Aware Decoding,” in **INTERSPEECH 2026**, Sydney, Australia, Sep 2026.
- [3] C. Lee, H. Kim, J. Yeom, S. Yoon, “EdiText: Controllable Coarse-to-Fine Text Editing with Diffusion Language Models,” in **ACL 2025**, Vienna, Austria, Jul 2025.
- [4] H. Kim*, C. Lee*, S. Park, J. Yeom, N. Park, S. Yu, S. Yoon, “Does Your Voice Assistant Remember? Analyzing Conversational Context Recall and Utilization in Voice Interaction Models,” in **Findings of ACL 2025**, Vienna, Austria, Jul 2025.

CO-AUTHORED PUBLICATIONS

- [5] D. Lee, S. Park, E. Song, C. Lee, Y. Cho, J. Kim, J. Yi, H. Kim, S. Yoon, “HEAR Who Said What: Unlocking Speaker-Attributed Reasoning via Counterfactual Voice Grounding,” in **EMNLP 2026**, Budapest, Hungary, Oct 2026.
- [6] D. Lee, E. Song, C. Lee, H. Kim, S. Yoon, “Still Between Us? Evaluating and Improving Voice Assistant Robustness to Third-Party Interruptions,” in **ACL 2026**, San Diego, California, United States, Jul 2026.
- [7] N. Park, C. Lee, J. Yeom, H. Kim, S. Yoon, “Beyond Language-Specific Neurons: The Challenge of Identifying Speech-Specific Neurons in Multimodal LLMs,” **IEEE Journal of Selected Topics in Signal Processing**, vol. 20, no. 1, Jan 2026.
- [8] N. Park, H. Kim, C. Lee, J. Choi, J. Yeom, S. Yoon, “NanoVoice: Efficient Speaker-Adaptive Text-to-Speech for Multiple Speakers,” in **ICASSP 2025**, Hyderabad, India, Apr 2025.
- [9] J. Yeom, H. Kim, J. Choi, C. Lee, N. Park, S. Yoon, “VoiceGuider: Enhancing Out-of-Domain Performance in Parameter-Efficient Speaker-Adaptive Text-to-Speech via Autoguidance,” in **ICASSP 2025**, Hyderabad, India, Apr 2025.
- [10] H. Kim, S. Lee, J. Yeom, C. Lee, S. Kim, and S. Yoon, “VoiceTailor: Lightweight Plug-In Adapter for Diffusion-Based Personalized Text-to-Speech,” in **INTERSPEECH 2024**, Kos Island, Greece, Sep 2024.
- [11] C. Shin*, H. Kim*, C. Lee, S. Lee, and S. Yoon, “Edit-A-Video: Single Video Editing with Object-Aware Consistency,” in **ACML 2023, Oral Presentation, Best Paper Award**, Istanbul, Turkey, Nov 2023.

*: Equal contribution

RESEARCH EXPERIENCE

Seoul National University, Seoul, Korea

- SNU-Samsung Electronics Co., Ltd. System LSI Collaboration Project Dec 2023 –
 - Project: Streaming Personalized Text-to-Speech
 - Supervisor: Prof. Sungroh Yoon
 - Developed and trained causal diffusion TTS models for streaming synthesis, with chunk-level caching to reduce redundant computation.
 - Developed batch-wise LoRA adapters with parameter sharing for efficient multi-speaker personalization. Co-authored NanoVoice (ICASSP 2025).
 - Related work: Proposed training-free, localized accent guidance for code-switching TTS. First-authored Phrase-Localized LCG (EMNLP 2026, Oral).
 - Currently adapting the model for on-device inference and building an Android demo for streaming synthesis. Learned Android development with coding-agent assistance and implemented the required components without prior Android experience.
- SNU-Samsung Electronics Co., Ltd. DS Collaboration Project Sep 2023 – Sep 2024
 - Project: Parameter-Efficient Fine-Tuning in Multimodal AI Models
 - Supervisor: Prof. Sungroh Yoon
 - Developed inference-time guidance to improve out-of-domain robustness in parameter-efficient TTS personalization. Co-authored VoiceGuider (ICASSP 2025).
- Undergraduate Research Student, Electrical & Computer Engineering Mar 2019 – Aug 2020
 - Project: Prediction of CRISPR-Cpf1 with various ML/DL models
 - Supervisor: Prof. Sungroh Yoon
 - Implemented CNN-based prediction model for CRISPR-Cpf1 protein sequence data.

HONORS

Cum Laude, Seoul National University, 2020

Academic Performance Scholarship, Seoul National University: 2015-1, 2015-2, 2019-1

LANGUAGES

- Korean: Native language.
- English: Fluent (speaking, reading, writing).

REFERENCES

- **Professor Sungroh Yoon**
Professor of Electrical & Computer Engineering, Seoul National University
1 Gwanak-ro, Gwanak-gu, Seoul 08826, Korea
sryoon@snu.ac.kr • +82-2 880-1401