

# Jinju (Pearl) Kim

## Applying for PhD Programs - '26 Fall Entry !

Carnegie Mellon University • Sungkyunkwan University

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## RESEARCH INTERESTS

Efficient, Reliable, and Accessible Speech & Language Systems to respect and reflect human diversity

1. Machine Unlearning for AI safety and privacy
2. Efficient generalization methods for low-resource language varieties

## EDUCATION & EXPERIENCE

Now   Aug. 2025   Aug. 2024	<b>Carnegie Mellon University</b> ● Visiting Research at <a href="#">MSLP Group</a> - funded by Korean Gov. (BK214) Adviser - <a href="#">Bhiksha Raj</a> ● Visiting Research at <a href="#">ChangeLing Lab</a> - funded by Korean Gov. (IITP) Adviser - <a href="#">David R. Mortensen</a>	Pittsburgh, PA, USA
Now   Mar. 2024	<b>Sungkyunkwan University</b> ● M.S in Electrical and Computer Engineering at <a href="#">IRIS Lab</a> - full scholarship Adviser - <a href="#">Jong Hwan Ko</a>	Suwon, Korea
Feb. 2024   Mar. 2018	<b>Sungkyunkwan University</b> ● B.S. in Applied Artificial Intelligence (4.05/4.5) ● B.A in Russian Language and Literature (4.25/4.5) Undergrad Researcher at <a href="#">IRIS lab</a>	Suwon & Seoul, Korea GPA : 4.08 / 4.5 Magna Cum Laude

## PUBLICATIONS

\*Equal Contribution

[Conferences]

- C2. Do Not Mimic My Voice : Speaker Identity Unlearning for Zero-Shot Text-to-Speech  
**Jinju Kim\***, Taesoo Kim\*, Dong Chan Kim, Jong Hwan Ko, Gyeong-Moon Park  
Dual Acceptation to (1) International Conference on Machine Learning ([ICML 2025](#))  
(2) ICML 2025 Workshop on Machine Unlearning for Generative AI ([MuGen X ICML 2025 Oral](#))
- C1. Domain-Specific Multilingual Strategies for Medical NLP: A Cross-Lingual Analysis of Orthographic and Phonemic Representations  
Kyungjin Kim, **Jinju Kim**, Haeji Jung, David R Mortensen, Jongmo Seo  
IEEE Engineering in Medicine and Biology Society (EMBC 2025)

[Under Review]

- U2. (Paper on Cognitive Linguistics & Zero-Shot Performance on Low-Resource Varieties)  
**Jinju Kim**, Haeji Jung, Youjeong Roh, Jong Hwan Ko, David R. Mortensen  
ARR (EMNLP 2025)
- U1. (Paper on Zero-Shot Multilingual Performance via Phonemics)  
Haeji Jung, **Jinju Kim**, Kyungjin Kim, Youjeong Roh, David R Mortensen

## PRESS & TALKS

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- M1. Article on Machine Unlearning and Voice Privacy  
**Jinju Kim**, Jong Hwan Ko  
*MIT Technology Review, Peter Hall, July '25*
- T1. Speaker Identity Unlearning for Zero-Shot Text-to-Speech  
**Jinju Kim**  
*Hosted by MLSP Group (Carnegie Mellon University, Prof. Bhiksha Raj), June '25*

## INDUSTRY PROJECTS

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- I2. Audio Compression for Machines  
Role – Main Researcher  
*Korean Electronics and Telecommunications Research Institute (2025)*
- I1. Speech Command Real-Time Targeting & Fire AI Cannon for Moving Objects  
Role - NLP Systems Developer  
*SolvIT Inc. (2024)*

## HONORS & AWARDS

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- F6. Long-Term Overseas Visiting Research (11K USD) – *Korean Gov. BK214 (2025)*
- F5. Full Academic Scholarship for Graduate School (32,000K KRW) – *Sungkyunkwan Univ. (2024)*
- F4. AI Intensive Program at Carnegie Mellon University (41K USD) – *Korean Gov. IITP (2024)*
- F3. BK Scholarship for Electrical and Computer Engineering – *Korean Gov. BK214 (2024)*
- A5. Magna Cum Laude – *Sungkyunkwan Univ. 2024*
- F2. BK Junior Scholarship for Electrical and Computer Engineering – *Korea Gov. BK214 (2023)*
- F1. Academic Excellence Scholarship – *Sungkyunkwan Univ. (2023)*
- A4. Sungkyunkwan University Outstanding Tutor Award – *Sungkyunkwan Univ. (2023)*
- A3. Excellence Award, Amondz New PB & PL Positioning Strategy Proposal – *Amondz (2021)*
- A2. Grand Award (1<sup>st</sup>), Spoon Creator DJ Acquisition Business Strategy Competition – *Spoon (2020)*
- A1. Grand Award (1<sup>st</sup>), Grand Prize, E-Land Interactive Curation Service Proposal – *E-Land (2020)*

## TEACHING EXPERIENCES

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### Sungkyunkwan University

- T3, 4. **Teaching Assistant for 'Logic Circuits'**-English (2024 & 2025)
- Lectures on topics including, but not limited to; Boolean Algebra, Karnaugh Maps, Quine-McCluskey Method, Multi-Level Gate Circuits, Circuit Designs, Simulations, Multiplexers, Latches and Flip-Flops

- T2. School Funded Tutor for **'Deep Learning 1: Foundations and Image Processing'** – *English (2022)*
- Instructed on concepts of computer vision and implementation Convolutional Neural Networks for image processing
  - Assisted students on professional paper reading and code reproductions
- T1. **Teaching Assistant for 'Artificial Intelligence Course'** – *English (2022)*
- Instructed students on algorithms, problem solving, and implementation using PyTorch
  - Designed midterm assignment to assess understanding & application of algorithms

## LINGUISTIC ABILITIES

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- Native in Korean & English (bilingual)
  - '24 ibt TOEFL 113/120
  - '22 ibt TOEIC 995/995
- Intermediate Russian
- Beginner Spanish, Japanese

## EXTRA CURRICULARS / EXPERIENCES

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### Korean Automobile Research Institute

- '23 Hackathon : Predicting Traffic Accident Severity in Daegu-si
  - Analyzed recorded data of traffic accidents, trained accident severity prediction model.

### Korean Ministry of Science and ICT

- '23 AI Grand Challenge Open Track : Policy Support AI
- '22 AI Grand Challenge : Policy Support AI
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### Dacon Competition

- '22 Speaker Emotion Recognition AI Model Hackathon
  - Analyzed utterances of speakers and labeled emotions, finetuned a BERT based pretrained emotion classification model to predict emotions on given dataset.

### LG AI Research Center

- Completed LG Aimers program including but not limited to : statistical and mathematical models, data analysis methods, supervised learning, unsupervised learning, explainable AI, causality.
- '22 LG AI Hackathon : Antenna Performance Prediction for Autonomous Driving Sensors
  - Analyzed recorded data from LG antenna factory to predict defected products, utilized gradient boosted tree and deep neural networks to optimize predictions.