

# Yoonjeong Park

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## RESEARCH INTERESTS

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(Singing) Voice Conversion, Audio Synthesis, Speech Recognition, Text-guided Image Generation

## EDUCATION

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Mar.2019 - Aug.2024	<b>Yonsei University</b> B.S in Computer Science, overall GPA: 3.8/4.3 [CS] 3.96 /4.3 Recipient of scholarship 2022-1 GPA: 4.24/4.3	Seoul, Korea
Jan.2023 - April.2023	<b>University of British Columbia</b> Exchange Student in Computer Engineering Relevant Course: Topics in Computer Engineering – deep learning	Vancouver, Canada

## PUBLICATIONS

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†: Corresponding author, \*: Equal contribution

### [1] Can Separators Improve Chain-of-Thought Prompting? | paper

Yoonjeong Park\*, Hyunjin Kim\*, Chanyeol Choi, Junseong Kim†, Jy-yong Sohn† (*Under Review*)

## INDUSTRY EXPERIENCE

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Sep.2023 - PRESENT	<b>Linq company</b> <i>Research Intern</i> · Advised by Prof. <a href="#">Jy-yong Sohn</a> , Dr. <a href="#">Junseong Kim</a> · Led a project focused on enhancing Chain-of-Thought prompting · Proposed and developed a novel method “CoT-Sep” to help Large Language Models (LLMs) understand their thought processes better while reasoning.	Cambridge, Massachusetts, United States (REMOTE)
Jun.2021 - Jan.2022	<b>ESOL company</b> <i>R&amp;D Center, Intern</i> · Participated in development of EUV inspection equipment which use detection model to detect defection in image dataset · Managed and coordinated the outsourcing company’s requirements and presented performance of developed model bi-weekly	Hwaseong City, Korea

## RESEARCH EXPERIENCE

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Jun.2021 - Aug.2021	<b>Undergraduate Research Assistant at Cyber Security Lab.</b> · Participated in research project of reverse engineering using GNN to predict function name from kernel binary code · Analyzed baseline paper <a href="#">NERO</a> ’s data pre-processing code and found out limitations to use it for our dataset · Implemented pre-processing code for our dataset based on NERO’s data pre-processing code
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## RELATED COURSES

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AI Convergence Practice (A+), Linear Algebra and its application (A+), Big Data (A+), Computer Vision (A+), Topics in Computer Engineering-Deep Learning (P/B+), Probability and Statistics (A+)

## PROJECTS

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- Oct. 2023 - **Speech Recognition for Korean Dialect | Github Repo**  
Dec. 2023 *Developed a specialized speech recognition model for Korean regional Dialect*
- Preprocessed Korean Dialect dataset from AI hub and trained Deepspeech2 model using open-source toolkit, [kospeech](#)
  - Achieved model performance comparable to that of Faster Whisper on test dataset reducing CER (Character Error Rate) to 0.2
- Jan. 2024 - **Real-Time Multilingual Chatbot for Gaming| Github Repo**  
Feb. 2024 *Developed a discord bot for a real-time STT-translate-TTS*
- Enhanced STT performance on streaming audio using AWS transcribe
  - Implemented a discord bot to send translated text to users for TTS
- Mar. 2022 - **Auto White Balance for Multi-illuminant | Github Repo**  
May. 2022 *Researched and enhanced Auto White Balance models for multi-illuminant scenes*
- Modified U-Net3+ to perform regression task per pixel and improved performance compared to the baseline U-Net model
  - Conducted extensive research on vision transformer models for AWB task and trained Swin-UperNet model and evaluated its performance in comparison to U-Net and U-Net3+ models
- Mar. 2023 - **Re-implement Resnet for CIFAR-10 | Github Repo**  
April. 2023 *Reimplemented Resnet and reproduced experimental results in the original paper*
- Implemented and optimized Resnet20, 56 and Plain20, 56-layer Net from scratch
  - Presented results in the report written in NeurIPS conference format

## COMPETITIONS & AWARDS

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- Jan.2023 **Certificate of Excellence** *Linq company*  
*Awarded as R&D intern*
- Oct.2023 - **Special Awards** *2023 Software University AI Competition*  
Dec.2023 *Developed AI Model for Satellite Image Building Area Segmentation | Github Repo*
- July.2023 - **10<sup>th</sup> place / 110 teams** *2023 Korean Language Competition*  
Oct.2023 *Developed specialized speech recognition Model for Elderly people and children*

## SKILLS

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- Deep Learning: Pytorch
- Data Science: Numpy, R
- System Admin: Docker
- Version Control: Git
- Operating System: Linux, macOS, windows

## LANGUAGES

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- Korean: Native
- English: TOEFL iBT 102
- Python, C++, Java, MySQL, PostgreSQL  
(\* in the order of fluency)

## EXTRACURRICULAR ACTIVITIES

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- 2023 - **YAI (Yonsei Artificial Intelligence Club at Computing College)**  
PRESENT
- Leading Industry Collaboration as Vice President
  - Conducted Speech, Generative models [paper review](#) study
  - Participated in Vision and Language Multimodal paper review study
- 2020 - **PoolC (Programming Club at Engineering College)**  
PRESENT
- Led basic algorithm study, machine learning study
  - Participated in Transformer, Computer Vision paper review study