Younghan Park

✉ younghanpark@yonsei.ac.kr   🔗 younghanstark.github.io   ⌂ younghanstark   in Younghan Park

Research Interests

- Multi-modal Deep Learning
- Spoken Language Understanding
- Text-to-Speech (TTS)

Education

Yonsei University, Seoul, South Korea   *Mar 2020 - Present*
Bachelor of Science, Computer Science

- GPA: 4.12/4.30, Rank: 5/173
- Relevant Coursework: Computer Vision, Big Data, Machine Learning
- Clubs and Activities: Dept. of CS Student Council, Competitive Programming Club, Google Developers Student Club, Yonsei AI Club
- Leave of Absence for Military Service (Jul 2021 - Jan 2023)

The University of Texas at Austin, Austin, Texas, United States   *Aug 2023 - May 2024*
Exchange Student, Computer Science

- GPA: 4.00/4.00
- Relevant Coursework: Natural Language Processing, Spoken Language Technologies (grad), Reinforcement Learning: Theory & Practice (grad)

Experience

NLP and Computational Linguistics Group, UT Austin   *Aug 2023 - Present*
Undergraduate Researcher (Advisors: Prof. Eunsol Choi, Prof. David Harwath)

- Working on building a larger, more spontaneous conversational text-to-speech (CTTS) dataset.
- Developed a benchmark to evaluate CTTS systems' ability to understand conversational context, with a focus on acoustic comprehension.
- Devised an efficient approach for acoustic context modeling that disentangles speaker identity.

Multimodal Intelligence Research Lab, Yonsei University   *Feb 2023 - Aug 2023*
Undergraduate Researcher (Advisor: Prof. Youngjae Yu)

- Developed a large-scale, scalable video highlight detection dataset using YouTube's 'Most Replayed' data.
- Designed and implemented a baseline model for predicting frame-wise importance scores.

Korean Augmentation To the U. S. Army (KATUSA), USAG Humphreys   *Jul 2021 - Jan 2023*
Military Police Officer

Google Developers Machine Learning Bootcamp   *Jun 2022 - Sep 2022*

Honors and Awards

Presidential Science Scholarship   *Jul 2024 - Present*

- Full-ride scholarship with an additional stipend provided each semester.

University Honors, The University of Texas at Austin   *Fall 2023*

Academic Excellence Scholarship, Yonsei University   *Spring 2021, Spring 2023, Fall 2023*

Academic Honors, Yonsei University   *Fall 2020, Spring 2021, Spring 2023*

Best Tutor, Yonsei University   *Spring 2021*

- Awarded to five tutors each semester.

Patents

"Control Apparatus Using Oral Cavity", Korea Patent Registration No. 10-2020-0140424
K. Hwang, G. Jang, W. Jeong, Y. Kim, **Y. Park**, and J. Yoo. All inventors contributed equally.

Projects

MouthMouse *Apr 2020 - Sep 2022*
- Co-founded a startup that developed a novel, low-cost human interface device utilizing the oral cavity, enabling easier computer and mobile device usage for individuals with physical disabilities.
- Implemented software using embedded C, and actively contributed to product planning and marketing.
- **Won 5+ startup competitions**, securing a total of approx. **$15,000 in funding** and an office space.
- Press Coverage (Korean): The Seoul Economic Daily, The Digital Times, The Korea Economic Daily

CO2Gather (GitHub) *Jan 2022 - Feb 2022*
- Developed an NLP software analyzes card logs to automatically calculate potential savings, fostering sustainable collaboration between consumers, businesses, and governments.
- Built an NLP model, implemented the web app's back-end, and actively participated in product planning.
- **Top 2 Winner**, KPMG Ideathon Challenge 2022 National Round, KPMG Korea

MaGam (GitHub) *Jan 2021 - Feb 2021*
- Developed a computer vision-based full-stack web application for highly accurate mask detection by addressing the challenge of limited data using both classical and modern features.
- Developed a vision model, co-implemented a full-stack web app, and contributed to product planning.
- **Top 3 Winner**, KPMG Ideathon Challenge 2021 National Round, KPMG Korea

Teaching

Tutor
- Yonsei CSI2100: Computer Programming (Prof. Byungjoo Lee) *Spring 2021*

Skills

Technical Skills: C, C++, Python, PyTorch, HTML, CSS, JavaScript, Node.js, MySQL, Linux, LaTex

Languages: Korean (Native), English (Fluent; TOEFL 104/120)