Seung-won Park (박승원)

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Education / Work

- Seoul National University 2017.03 – 2018.12, 2021.03 – 2022.08 (expected)
    - Pursuing a BS degree in Physics (GPA 3.91/4.30)
    - Double majoring in CS (GPA 3.25/4.30)
- Symbiote 2021.03 – 2021.07
- MINDs Lab, Inc. 2018.06 – 2018.08, 2019.01 – 2021.02
    - Worked as a substitute of mandatory military service 2019.02 – 2021.02
    - Senior AI Scientist 2020.01 – 2020.06
    - Head AI Scientist 2020.07 – 2021.02
        - Led audio/speech research projects at MINDs Lab; focused on TTS and Voice Conversion.
        - Former works include: Korean news article summarization, Text-Independent Speaker Verification, Speech Separation, Diarization, Enhancement.
- Gyeonggi Science High School for the gifted 2014 – 2017
    - Got first prize on GSHS physics problem solving competition(2014, 2015), beating several IPhO gold medalists in school
    - Proposed and conducted research project as intern at RISE Lab. @ Sungkyunkwan Univ. along with Hyoungjoo Kim 2015.04 – 2015.12

Research

Preprint:

- Assem-VC: Realistic Voice Conversion by Assembling Modern Speech Synthesis Techniques 2021, [Kang-wook Kim, **Seung-won Park**, Myun-chul Joe] arXiv / Project Page

Conference:

- Cotatron: Transcription-Guided Speech Encoder for Any-to-Many Voice Conversion without Parallel Data Interspeech 2020, [**Seung-won Park**, Doo-young Kim, Myun-chul Joe] arXiv / Project Page / GitHub

Workshop:

- Generating Novel Glyph without Human Data by Learning to Communicate NeurIPS 2020 Workshop on Machine Learning for Creativity and Design, [**Seung-won Park**] arXiv / Slides & Video / Google Colab

Unpublished works:

- SCP Artificial Muscle로 작동하는 Antagonistic Robot Arm의 Feedback 제어 2015, [김형주, **박승원**, Luong Anh Tuan, 문형필]
    - Precise feedback control of SCP Artificial Muscle introduced by Haines et al.(2014)

- 22th Samsung Humantech Paper Award – Silver Prize
    - Feedback Control of Forced Air-Cooling Speed for Prevention of SCP's Overheating 2016, [**박승원**, 오정현]
        - One of the first attempts to feedback control the SCP's cooling speed
        - GSHS best research award on physics

Open Source Contribution

- MelNet – Group project @ Deepest
- MelGAN – I reproduced the results before an official implementation had been released.
- VoiceFilter – My name was kindly acknowledged within the paper.
- GSHS TeX Society – Server Admin (Jekyll, PHP, CentOS) / Developer, Educator (LaTeX)
- Other miscellaneous projects are shown in my GitHub profile.

Activities

- Reviewer
    - NeurIPS 2021, ICLR 2021, ICLR 2020
- Deepest 2019.01 – now
    - Vice President 2020.02 – 2021.02 (Season 7, 8)
    - SNU Deep Learning Society: 1 weekly hosting + 1 group project for each season
- Lorem Ipsum Seminar 2017
    - CS seminar of two physics students and one chemistry student
- Executive staff @ Korean TeX Society 2017.03 – 2019.10
- Founded GSHS TeX Society 2015.12 – 2017.02

Honors and Awards

- Physics
    - IPhO – South Korean team candidate 2016
    - Passed all 5 BS-level tests on Physics Certification Exam 2014 – 2016
        - Operated by The Korean Physical Society – Classical Mechanics, Electromagnetics, Quantum Mechanics, Thermodynamic & Statistical physics, Optics
- Competitive Programming (Codeforces: veydpz)
    - UCPC 2018 – 14th place
    - SNUPC 2017 – 2nd place on Div.2
- Scholarship
    - Presidential scholarship on science 2017 – now
    - Hanseong Sonjaehan Scholarship 2015 – 2016