

# Seung-won Park (박승원)

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- yyyyy (at) snu.ac.kr / [swpark.me](http://swpark.me) / [seungwonpark @ GitHub](https://github.com/seungwonpark)

## Education / Work

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- [Seoul National University](https://www.snu.ac.kr) 2017.03 – 2018.12, 2021.03 – 2023.02 (expected)
  - Pursuing a BS degree in Physics (GPA 3.92/4.30)
  - Double majoring in CS (GPA 3.25/4.30)
  - Research Intern at [MARG](https://marg.snu.ac.kr) 2021.10 – now
- [Symbiote](https://www.symbiote.com) 2021.03 – 2021.07
- [MINDs Lab, Inc.](https://www.minds.ai) 2018.06 – 2018.08, 2019.01 – 2021.02
  - Worked as a substitute of mandatory military service 2019.02 – 2021.02
  - Senior/Head AI Scientist 2020.01 – 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](https://www.gyeonggi.ac.kr) 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.](https://www.rise-lab.com) along with Hyoungjoo Kim 2015.04 – 2015.12

## Research

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### Preprint:

- Assem-VC: Realistic Voice Conversion by Assembling Modern Speech Synthesis Techniques 2021, [Kang-wook Kim, **Seung-won Park**, Myun-chul Joe] [arXiv](https://arxiv.org/abs/2106.00000) / [Project Page](https://seungwonpark.github.io/assem-vc)

### 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](https://arxiv.org/abs/2006.00000) / [Project Page](https://seungwonpark.github.io/cotatron) / [GitHub](https://github.com/seungwonpark/cotatron)

### 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](https://arxiv.org/abs/2006.00000) / [Slides & Video](https://seungwonpark.github.io/glyph) / [Google Colab](https://colab.research.google.com/github/seungwonpark/glyph/blob/main/colab.ipynb)

### Unpublished works: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.\(2014\)](https://doi.org/10.1016/j.robot.2014.06.001)
  - 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 (selected)

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- [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

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- Reviewer
  - ICLR (2022, 2021, 2020), NeurIPS (2021)
- [Deepest](#) 2019.01 – 2021.08
  - 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

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- 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