

Jang-Hyun Kim

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Education

Seoul National University M.S. & Ph.D. in Computer Science	2019.Sep -
Seoul National University B.S. in Mathematical Science, <i>Summa Cum Laude</i> 2 years mandatory military service	2012.Mar - 2019.Feb
Seoul Science Highschool	2009.Mar - 2012.Feb

Experience

Machine Learning Laboratory, SNU Research Internship (Advisor : Prof. Hyun Oh Song)	2019.Mar - 2019.Aug
NAVER CLOVA AI Global Research Residency Research on speech enhancement and speaker verification (github , demo)	2018.Aug - 2019.Jan
Statistical Multiscale Analysis Laboratory, SNU Research Internship (Advisor : Prof. Hee-Seok Oh) Research on manifold learning (Spherical Principal Curves, TPAMI)	2017.Dec - 2018.Aug
Deepest, SNU Deep Learning Student Community Caricature generation (github) Source separation, speech enhancement (github)	2017.Sep - 2020.Aug
True Balance, Mobile App Service for India Data Analysis Intern Work with SQL, Spark, Python	2017.Jan - 2017.Apr

Publications

- [C2] Co-Mixup: Saliency Guided Joint Mixup with Supermodular Diversity
Jang-Hyun Kim, Wonho Choo, Hosan Jeong, Hyun Oh Song
ICLR Oral, 2021
- [J1] Spherical Principal Curves
Jongmin Lee*, **Jang-Hyun Kim***, Hee-Seok Oh (*: equal contribution)
TPAMI, 2021
- [C1] Puzzle Mix: Exploiting Saliency and Local statistics for Optimal Mixup
Jang-Hyun Kim, Wonho Choo, Hyun Oh Song
ICML, 2020
- [P2] Phase-Aware Speech Enhancement with Deep Complex U-Net
Hyeong-Seok Choi, **Jang-Hyun Kim**, Jaesung Huh, Adrian Kim, Jung-Woo Ha, Kyogu Lee
arxiv, 2019
- [P1] Multi-Domain Processing via Hybrid Denoising Networks for Speech Enhancement
Jang-Hyun Kim*, Jaejun Yoo*, Sanghyuk Chun, Adrian Kim, Jung-Woo Ha (*: equal contribution)
arxiv, 2018

Open Source

Speaker Verification ([code](#), [paperswithcode](#), [kaggle](#))

- Implementation of ‘Generalized End-to-End Loss for Speaker Verification’, Google (+300 Github Stars)

R package *spherepc* ([code](#), [document](#)).

- Implementation of ‘Spherical Principal Curve’

HONORS and AWARDS

Scholarships

Youlchon AI Star Scholarship, 2021

Korea Foundation for Advanced Studies Ph.D. Scholarship, 2020 - current

Presidential Science Scholarship, 2012 - 2019

Research Awards

Samsung Electronics & SNU Excellent Paper Award [C1], *Third Prize*

Korean Statistics Society SG Poster Paper Award [J1], *Honorable Mention*

Math Contests

Korean Contest of Mathematics for University Students, 2017, *Silver Medal*

Korean Mathematical Olympiad (KMO), 2009, *Gold Medal*

Professional Service

Conference Reviewer NeurIPS 2021, ICLR 2022

Program Committee NeurIPS Workshop, “ImageNet: Past, Present, and Future”, 2021

Teaching

SNU, Introduction To Deep Learning Teaching Assistant, Spring 2020

References

Hyun Oh Song Assistant Professor, Dept. of Computer Science and Engineering, SNU (hyunoh@snu.ac.kr)

Hee-Seok Oh Professor, Dept. of Statistics, SNU (heeseok@stats.snu.ac.kr)