

Jang-Hyun Kim

blue378@snu.ac.kr  [github](#)  [scholar](#)

Education

Seoul National University

2019.Sep -

M.S. & Ph.D in Computer Science

Seoul National University

2012.Mar - 2019.Feb

B.S. in Mathematical Science, *Summa Cum Laude*

2 years mandatory military service

Seoul Science Highschool

2009.Mar - 2012.Feb

Experience

Machine Learning Laboratory, SNU

2019.Mar - 2019-Aug

Research Internship (Advisor : Prof. Hyun Oh Song)

NAVER CLOVA

2018.Aug - 2019.Jan

AI Global Research Residency

- Research on speech enhancement and speaker verification ([github](#), [demo](#))

Statistical Multiscale Analysis Laboratory, SNU

2017.Dec - 2018.Aug

Research Internship (Advisor : Prof. Hee-Seok Oh)

- Research on manifold learning (Spherical Principal Curves, accepted at TPAMI)

Deepest, SNU Deep Learning Student Community

2017.Sep - 2020.Aug

- Caricature generation ([github](#))

- Source separation, speech enhancement ([github](#))

True Balance, Mobile App Service for India

2017.Jan - 2017.Apr

Data Analysis Intern

- Work with SQL, Spark, Python

Publications

[C2] Co-Mixup: Saliency Guided Joint Mixup with Supermodular Diversity (*ICLR 2021 Oral*)

- **Jang-Hyun Kim**, Wonho Choo, Hosan Jeong, Hyun Oh Song

[J1] Spherical Principal Curves (*TPAMI 2021*)

- Jongmin Lee*, **Jang-Hyun Kim***, Hee-Seok Oh

[C1] Puzzle Mix: Exploiting Saliency and Local statistics for Optimal Mixup (*ICML 2020*)

- **Jang-Hyun Kim**, Wonho Choo, Hyun Oh Song

[P2] Phase-Aware Speech Enhancement with Deep Complex U-Net (*arxiv 2019*)

- Hyeong-Seok Choi, **Jang-Hyun Kim**, Jaesung Huh, Adrian Kim, Jung-Woo Ha, Kyogu Lee

[P1] Multi-Domain Processing via Hybrid Denoising Networks for Speech Enhancement (*arxiv 2018*)

- **Jang-Hyun Kim***, Jaejun Yoo*, Sanghyuk Chun, Adrian Kim, Jung-Woo Ha

* denotes equal contribution.

Open Source

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

- Implementation of Generalized End-to-End Loss for Speaker Verification (from Google)

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

- Implementation of Spherical Principal Curve

HONORS and AWARDS

Scholarships

Korea Foundation for Advanced Studies (KFAS), *for M.S. & Ph.D.*

Presidential Science Scholarship, *for B.S.*

Research Awards

Samsung Electronics & SNU Excellent Paper Award (*with Puzzle Mix, ICML 2020*), *Third Prize*

Korean Statistics Society SG Poster Paper Award (*with SPC, TPAMI 2020*), *Honorable Mention*

Math Contests

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

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