Jang-Hyun Kim

kimjanghyun1230@gmail.com   github

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*