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, 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

[J2] *spherepc*: An R Package for Dimension Reduction on a Sphere
Jongmin Lee, **Jang-Hyun Kim**, Hee-Seok Oh
The R Journal (under minor revision)

[C3] Uncertainty-Based Offline Reinforcement Learning with Diversified Q-ensemble
Gaon An*, Seungyong Moon*, **Jang-Hyun Kim**, Hyun Oh Song
NeurIPS, 2021

[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 [C2], 2021, *First Prize*

Samsung Electronics & SNU Excellent Paper Award [C1], 2020, *Third Prize*

Korean Statistics Society SG Poster Paper Award [J1], 2019, *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
SNU, Machine Learning   Teaching Assistant, Fall 2021
SNU, Undergraduate Research Program   Research Mentor, Fall 2021

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)