Jang-Hyun Kim

Education	
Seoul National University	
M.S. & Ph.D. in Computer Science	Current
B.S. in Mathematical Science, Summa Cum Laude • 2 years mandatory military service	2019.Feb
Seoul Science High School	2012.Feb
Experience	
NAVER CLOVA	2018.Aug - 2019.Jan
 AI global research residency (Advisor: Prof. Jaejun Yoo) Research on speech enhancement (github, demo) 	
Statistical Multiscale Analysis Laboratory, SNU	2017.Dec - 2018.Aug
 Research internship (Advisor: Prof. Hee-Seok Oh) Research on Riemannian manifold learning (TPAMI21) 	
Deepest, SNU Deep Learning Community	2017.Sep - 2020.Aug
 Community manager and project participant Caricature generation (github), source separation (Deep Complex U-Net) 	
True Balance, India Mobile App Service	2017.Jan - 2017.Apr
Data analysis internWorking with SQL, Spark, Python	

Publications _

Google scholar: 635 citations, i10-index of 6

- [P3] Neural Relation Graph for Identifying Problematic Data Jang-Hyun Kim, Sangdoo Yun, Hyun Oh Song arXiv, 2023
- [C4] Dataset Condensation via Efficient Synthetic-Data Parameterization
 Jang-Hyun Kim, Jinuk Kim, Seong Joon Oh, Sangdoo Yun, Hwanjun Song, Joonhyun Jeong, Jung-Woo Ha, Hyun Oh Song
 ICML, 2022
- [J 2] spherepc: An R Package for Dimension Reduction on a Sphere Jongmin Lee, Jang-Hyun Kim, Hee-Seok Oh The R Journal, 2022
- [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
- [J 1] 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 ___

Google's Speaker Verification ★300+ (github, kaggle)

• TensorFlow implementation of "Generalized End-to-End Loss for Speaker Verification"

Puzzle Mix ★140+ (github)

- PyTorch implementation of "Puzzle Mix: Exploiting Saliency and Local statistics for Optimal Mixup"
- Co-Mixup ★90+ (github)
- PyTorch implementation of "Co-Mixup: Saliency Guided Joint Mixup with Supermodular Diversity"

Efficient Dataset Condensation ★50+ (github)

- · PyTorch implementation of "Dataset Condensation via Efficient Synthetic-Data Parameterization" spherepc (package, document).
- R package of "Spherical Principal Curve"

Honors	and	Awards
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Qualcomm Innovation Fellowship Korea	2021
Microsoft Research Asia Fellowship Nomination Award	2021
Youlchon AI Star Scholarship	2021
First Prize, Samsung Electronics & SNU Excellent Paper Award [C2]	2021
Korea Foundation for Advanced Studies (KFAS) Ph.D. Scholarship	2020 - 2024
Honorable Mention, Korean Statistics Society SG Poster Paper Award [J1]	2019
Silver Medal, Korean Contest of Mathematics for University Students	2017
Presidential Science Scholarship	2012 - 2019
Gold Medal, Korean Mathematical Olympiad (KMO)	2009

Professional Service

Conference Reviewer NeurIPS 2021-2023, ICLR 2022-2023, ICML 2023

Program Committee NeurIPS Workshop, "Interpolation Regularizers and Beyond", 2022 NeurIPS Workshop, "ImageNet: Past, Present, and Future", 2021

Teaching .

SNU, Undergraduate Research Program Research Mentor, Fall 2021 SNU, Machine Learning Teaching Assistant, Fall 2021 SNU, Introduction To Deep Learning Teaching Assistant, Spring 2020

References _

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

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