Jang-Hyun Kim

blue378@snu.ac.kr \Im scholar \bigcirc github

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	
[C4] Dataset Condensation via Efficient Synthetic-Data Parameterization Jang-Hyun Kim, Jinuk Kim, Seong Joon Oh, Sangdoo Yun, Hwanjun Sor Jung-Woo Ha, Hyun Oh Song ICML, 2022	ng, Joonhyun Jeong,
[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 Gaon An*, Seungyong Moon*, Jang-Hyun Kim, Hyun Oh Song NeurIPS, 2021	-ensemble
[C2] Co-Mixup: Saliency Guided Joint Mixup with Supermodular Diversit Jang-Hyun Kim, Wonho Choo, Hosan Jeong, Hyun Oh Song ICLR Oral, 2021	У
[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 Mix	up

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 $\bigstar 140+$ (github)

- PyTorch implementation of "Puzzle Mix: Exploiting Saliency and Local statistics for Optimal Mixup" Co-Mixup $\bigstar 90+$ (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
11011015	and	Awaius

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 2021-2022, 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)Hee-Seok Oh Professor, Dept. of Statistics, SNU (heeseok@stats.snu.ac.kr)