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	
Center for Data Science, NYU	2024.Feb - 2024.Aug
· Visiting scholar (Advisor: Prof. Kyunghyun Cho)	
NAVER CLOVA	2018.Aug - 2019.Jan
 AI global research residency (Advisor: Prof. Jaejun Yoo) Research on speech enhancement (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 intern Working with SQL, Spark, Python 	

- Publications
 C: conference, J: journal, P: preprint, *: equal contribution
 - [C6] Compressed Context Memory For Online Language Model Interaction Jang-Hyun Kim, Junyoung Yeom, Sangdoo Yun, Hyun Oh Song ICLR, 2024
 - [C5] Neural Relation Graph: A Unified Framework for Identifying Label Noise and Outlier Data Jang-Hyun Kim, Sangdoo Yun, Hyun Oh Song NeurIPS, 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
 - [J2] 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 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 arXiv, 2018

Open Source _____

Google's Speaker Verification ★330+ (GitHub, Kaggle)

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

Puzzle Mix ★150+ (GitHub)

- PyTorch implementation of "Puzzle Mix: Exploiting Saliency and Local Statistics for Optimal Mixup" Co-Mixup ★100+ (GitHub)
- PyTorch implementation of "Co-Mixup: Saliency Guided Joint Mixup with Supermodular Diversity" Efficient Dataset Condensation ★90+ (GitHub)
- PyTorch implementation of "Dataset Condensation via Efficient Synthetic-Data Parameterization" Compressed Context Memory ★30+ (GitHub)
- PyTorch implementation of "Compressed Context Memory For Online Language Model Interaction" spherepc (CRAN, Document)
- R package of "Spherical Principal Curve"

Honors and Awards _

Qualcomm Innovation Fellowship Korea [C2]	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 Teaching Assistant, Fall 2021 SNU, Machine Learning 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