# Jang-Hyun Kim

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Education	
Seoul National University	
M.S. & Ph.D. in Computer Science	Current
B.S. in Mathematical Science, Summa Cum Laude	2019.Feb
- 2 years mandatory military service	
Seoul Science Highschool	2012.Feb
Experience	
NAVER CLOVA	2018.Aug - 2019.Jan
AI global research residency	
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 (Spherical Principal Curves, 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	

## Publications \_

Work with SQL, Spark, Python

- [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 (code, paperswithcode, kaggle)

- Implementation of 'Generalized End-to-End Loss for Speaker Verification' (+300 Github Stars)

R package *spherepc* (code, document).

- Implementation of 'Spherical Principal Curve'

Honors	and	Awards
TIOHOLS	anu	Awaius

Qualcomm Innovation Fellowship Korea	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 - current
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, ICML 2022

Program Committee 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)