

# Jang-Hyun Kim

blue378@snu.ac.kr  [github](#)  [scholar](#)

## Education

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### 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

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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

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[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

[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  
 Hyeon-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

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- 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

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

## Professional Service

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<b>Conference Reviewer</b>	NeurIPS 2021-2022, ICLR 2022, ICML 2022
<b>Program Committee</b>	NeurIPS Workshop, “ImageNet: Past, Present, and Future”, 2021

## Teaching

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

## References

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<b>Hyun Oh Song</b>	Associate Professor, Dept. of Computer Science and Engineering, SNU (hyunoh@snu.ac.kr)
<b>Hee-Seok Oh</b>	Professor, Dept. of Statistics, SNU (heeseok@stats.snu.ac.kr)