

# Jang-Hyun Kim

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

## Education

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**Seoul National University**

2019.Sep -

M.S. & Ph.D in Computer Science

**Seoul National University**

2012.Mar - 2019.Feb

B.S. in Mathematical Science, *Summa Cum Laude*

2 years mandatory military service

**Seoul Science Highschool**

2009.Mar - 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, accepted at 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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[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

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

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Speaker Verification ([code](#), [paperswithcode](#), [kaggle](#))

- Implementation of ‘Generalized End-to-End Loss for Speaker Verification’ (from Google)

R package *spherepc* ([code](#), [document](#)).

- Implementation of ‘Spherical Principal Curve’

## HONORS and AWARDS

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### Scholarships

Korea Foundation for Advanced Studies (KFAS) *for M.S. & Ph.D.*, 2020~current

Presidential Science Scholarship *for B.S.*, 2012~2019

### Research Awards

Samsung Electronics & SNU Excellent Paper Award (*with Puzzle Mix, ICML 2020*), *Third Prize*

Korean Statistics Society SG Poster Paper Award (*with SPC, TPAMI 2021*), *Honorable Mention*

### Math Contests

Korean Contest of Mathematics for University Students, 2017, *Silver Medal*

Korean Mathematical Olympiad (KMO), 2009, *Gold Medal*

## Teaching

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SNU, **Introduction To Deep Learning**   Teaching Assistant, Spring 2020

## References

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**Hyun Oh Song**   Assistant Professor, Dept. of Computer Science and Engineering, SNU ([hyunoh@snu.ac.kr](mailto:hyunoh@snu.ac.kr))

**Hee-Seok Oh**   Professor, Dept. of Statistics, SNU ([heeseok@stats.snu.ac.kr](mailto:heeseok@stats.snu.ac.kr))