

# EungGu Yun

윤응구

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## EDUCATION

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### Korea Advanced Institute of Science and Technology (KAIST)

Graduate School of AI

Daejeon, Korea

2021. 03 – 2023. 02

#### M.S. in Artificial Intelligence

- Supervisor: Prof. **Juho Lee**
- Lab: Statistical Inference and Machine Learning Lab (SIML)
- Thesis: *Traversing Between Modes in Function Space for Fast Ensembling*
- Research interests: Loss landscape, Neural processes
- GPA: 4.08 / 4.3

### SungKyunKwan University (SKKU)

Department of Computer Science and Engineering, College of Computing

Seoul, Korea

2017. 03 – 2020. 08

#### B.S. in Computer Science and Engineering

- Total GPA: 4.33 / 4.5
- Major GPA: 4.47 / 4.5

## EXPERIENCE

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### Artificial Intelligence Institute of Seoul National University (AIIS)

Deep Representation Learning Research Group (DRL)

Seoul, Korea

2020. 07 – 2020. 09

#### Research Intern

- Supervisor: Prof. **Wonjong Rhee**
- Research on model interpretability and activation on-off patterns.
- Reproduce CNN visualization methods, including Grad-CAM, (C)LRP, etc.

### Electronics and Telecommunications Research Institute (ETRI)

Artificial Intelligence Research Laboratory

Daejeon, Korea

2020. 01 – 2020. 02

#### Research Intern

- Supervisor: **Yoo-mi Park**
- Test and debug ETRI Deep Learning HPC Platform Dashboard.
- Implement AlexNet and ResNet models with DL-MDL to serve as example deep learning models.

## AWARDS & HONORS

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### The National Scholarship for Science and Engineering

2019 Spring – 2020 Spring

Korea Student Aid Foundation (KOSAF)

- Supports undergraduates with strong academic performance in science and engineering.

### SungKyun Software Scholarship

2017 Spring – 2018 Fall

SungKyunKwan University (SKKU)

- Supports students with an outstanding GPA.

### Dean's List Award

2017 Spring – 2019 Fall

College of Computing, SungKyunKwan University (SKKU)

- In recognition of high scholastic achievement. (6 times)

## PUBLICATIONS

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### PREPRINT

#### Probabilistic Imputation for Time-series Classification with Missing Data

SeungHyun Kim\*, Hyunsu Kim\*, **Eunggu Yun\***, Hwangrae Lee, Jaehun Lee, Juho Lee (\*: Equal contribution)

2023

#### Traversing Between Modes in Function Space for Fast Ensembling

**Eunggu Yun\***, Hyungi Lee\*, Giung Nam\*, Juho Lee (\*: Equal contribution)

2023

### CONFERENCE

#### Martingale Posterior Neural Processes

ICLR (*Spotlight*)

Hyungi Lee, **Eunggu Yun**, Giung Nam, Edwin Fong, Juho Lee

2023

#### Scale Mixtures of Neural Network Gaussian Processes

ICLR

Hyungi Lee, **Eunggu Yun**, Hongseok Yang, Juho Lee

2022

### JOURNAL

#### Benefits of stochastic weight averaging in developing neural network radiation scheme for numerical weather prediction

JAMES

Hwan-Jin Song, Soonyoung Roh, Juho Lee, Giung Nam, **Eunggu Yun**, Jongmin Yoon, Park Sa Kim

2022

## PROJECTS

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#### Bayesian inference for time-series data with missing values

2022. 08 – 2023. 02

Samsung Research

- Developing a Bayesian deep learning method that can quantify uncertainty within missing values.
- Propose multivariate time-series classification model using a regularization method called ObsDropout.
- Validate proposed method on PhysioNet 2012, MIMIC-III, and UCI human activity datasets.

#### Developing artificial intelligence based emulator for physics processes in numerical models

2021. 05 - 2022. 07

National Institute of Meteorological Sciences (NIMS)

- Research on the developing alternative techniques of physical processes in the numerical weather prediction (NWP) model based on AI to reduce computational costs and to improve the accuracy of NWP.

## SOFTWARE

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#### Neural-Process-Family (NPF)

2022

Neural Process implementations in JAX

## SKILLS

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<b>Programming</b>	Python, JavaScript, C, C++, LaTeX
<b>Deep Learning</b>	PyTorch (+ PyTorch/XLA), JAX (+ Flax, Optax), TensorFlow (+ Keras)
<b>System</b>	Linux, Docker, Google Cloud Platform (+ TPU)
<b>Languages</b>	Korean (native), English (intermediate)