

# Seanie Lee

REGULARIZATION · DATA AUGMENTATION

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## Education

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

PH.D IN ARTIFICIAL INTELLIGENCE

- Supervised by [Sung Ju Hwang](#) and [Juho Lee](#)
- Research interest: Regularization for Deep Neural Networks.

Daejeon, S.Korea

Mar. 2022 -

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

M.S. IN ARTIFICIAL INTELLIGENCE

- Supervised by [Sung Ju Hwang](#) and [Juho Lee](#)
- Master Thesis: [Data augmentation for natural language processing](#)

Daejeon, S.Korea

Mar. 2020 - Feb. 2022

### Yonsei University

B.A. IN LIBRARY AND INFORMATION SCIENCE

Seoul, S.Korea

Mar. 2011 - Feb. 2018

## Publication

### CONFERENCES

#### Self-Supervised Set Representation Learning for Unsupervised Meta-Learning

DONG BOK LEE\*, SEANIE LEE\*, KENJI KAWAGUCHI, YUNJI KIM, JIHWAN BANG, JUNG-WOO HA, SUNG JU HWANG

- [\[paper\]](#)

ICLR

2023

#### Self-Distillation for Further Pre-training of Transformers

SEANIE LEE, MINKI KANG, JUHO LEE, SUNG JU HWANG, KENJI KAWAGUCHI

- [\[paper\]](#)

ICLR

2023

#### Set-based Meta-Interpolation for Few-Task Meta-Learning

SEANIE LEE\*, BRUNO ANDREIS\*, KENJI KAWAGUCHI, SUNG JU HWANG.

- [\[paper\]](#)

NeurIPS

2022

#### On Divergence Measures for Bayesian Pseudocoresets

BALHAE KIM, JUNGWON CHOI, SEANIE LEE, YOONHO LEE, JUNG-WOO HA, JUHO LEE

- [\[paper\]](#)

NeurIPS

2022

#### Set Based Stochastic Subsampling

BRUNO ANDREIS, SEANIE LEE, A. TUAN NGUYEN, JUHO LEE, EUNHO YANG, SUNG JU HWANG.

- [\[paper\]](#)

ICML

2022

#### Sequential Reptile: Inter-Task Gradient Alignment for Multilingual Learning

SEANIE LEE\*, HAE BEOM LEE\*, JUHO LEE, SUNG JU HWANG.

- [\[paper\]](#)
- \*: equal contribution

ICLR

2022

#### Learning to Perturb Word Embeddings for Out-of-distribution QA

SEANIE LEE\*, MINKI KANG\*, JUHO LEE, SUNG JU HWANG.

- [\[paper\]](#)[\[code\]](#)
- \*: equal contribution

ACL

2021

#### Contrastive Learning with Adversarial Perturbations for Conditional Text Generation

SEANIE LEE\*, DONG BOK LEE\*, SUNG JU HWANG.

- [\[paper\]](#)[\[code\]](#)
- \*: equal contribution

ICLR

2021

#### Meta-GMVAE: Mixture of Gaussian VAE for Unsupervised Meta-Learning

DONG BOK LEE, DONGCHAN MIN, SEANIE LEE, SUNG JU HWANG.

- [\[paper\]](#)[\[code\]](#)

ICLR

2021

## Generating Diverse and Consistent QA pairs from Contexts with Information-Maximizing Hierarchical Conditional VAEs

ACL

DONG BOK LEE\*, SEANIE LEE\*, WOOTAE JEONG, DONGHWAN KIM, SUNG JU HWANG

2020

- [\[paper\]](#) [\[code\]](#) [\[video\]](#)
- \*: equal contribution

## g2pM: A Neural Grapheme-to-Phoneme Conversion Package for Mandarin Chinese Based on a New Open Benchmark Dataset

INTERSPEECH

KYUBYONG PARK\*, SEANIE LEE\*

2020

- [\[paper\]](#) [\[code\]](#)
- \*: equal contribution

## WORKSHOP

### Domain-agnostic question-answering with adversarial training

EMNLP-IJCNLP MRQA Workshop

SEANIE LEE\*, DONGGYU KIM\*, JANGWON PARK\*

2019

- [\[paper\]](#) [\[code\]](#)
- \*: equal contribution

## JOURNAL

### Incorporating product description to sentiment topic models for improved aspect-based sentiment analysis

Information Science

REINALD KIM AMPLAYO, SEANIE LEE, MIN SONG

2018

## Experience

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### Singapore National University

Singapore

INTERNSHIP

July 2022 - September 2022

- Remote internship at [Deep Learning in Theory and Practice](#) lab, supervised by [Kenji Kawaguchi](#).

### Korea Advanced Institute of Science and Technology

Daejeon, S.Korea

TEACHING ASSISTANT

Mar. 2020 - Dec. 2021

- Deep Reinforcement Learning, AI611
- Mathematics for AI, AI503
- Deep Learning, AI502

### 42 Maru

Seoul, S.Korea

INTERNSHIP

Feb. 2019 - Jan. 2020

- Research on Question Answering, Semi-supervised Learning, Domain Generalization

## Awards

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2019 **Silver Medal**, Named Entity Recognition in [NAVER NLP Challenge](#)

Seoul, Korea

2019 **Bronze Medal**, Semantic Role Labeling in [NAVER NLP Challenge](#)

Seoul, Korea

## Presentation

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### Tech. talk, NAVER corp.

Online, South Korea

PRESENTATION OF INFO-HCVAE

04.Dec. 2020

- Generating Diverse and Consistent QA pairs from Contexts with Information-Maximizing Hierarchical Conditional VAEs
- ACL 2020 Long paper