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# **Education**

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

Daejeon, S.Korea

Ph.D in Artificial Intelligence

Mar. 2022 -

- Supervised by Sung Ju Hwang and Juho Lee
- Research interest: Large Language Models, Safety Alignment, and Efficient Fine-tuning.

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

Daejeon, S.Korea

M.S. IN ARTIFICIAL INTELLIGENCE

• Supervised by Sung Ju Hwang and Juho Lee

• Master Thesis: Data augmentation for natural language processing

Mar. 2020 - Feb. 2022

Yonsei University Seoul, S.Korea

B.A. IN LIBRARY AND INFORMATION SCIENCE

Mar. 2011 - Feb. 2018

# **Experience**.

Mila Montreal, Canada

INTERNSHIP

January 2024 - June 2024

• Research internship at Mila, advised by Yoshua Bengio.

 Apple
 Cambridge, UK

• Research internship at Siri team, hosted by Anders Johannsen.

May 2023 - September 2023

#### **Singapore National University**

Singapore

22.May. 2023

INTERNSHIP

• Remote internship at Deep Learning lab, supervised by Kenji Kawaguchi.

July 2022 - September 2022

#### **Korea Advanced Institute of Science and Technology**

Daejeon, S.Korea Mar. 2020 - Dec. 2021

• Deep Reinforcement Learning, Al611

Mathematics for Al, Al503

• Deep Learning, Al502

TEACHING ASSISTANT

**42 Maru** Seoul, S.Korea

 Internship
 Feb. 2019 - Jan. 2020

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

# Awards\_

2023Apple AI/ML PhD Fellowship, Recipient of Apple Scholars in AI/MLCoupertino, US2019Silver Medal, Named Entity Recognition in NAVER NLP ChallengeSeoul, Korea2019Bronze Medal, Semantic Role Labeling in NAVER NLP ChallengeSeoul, Korea

### **Presentation**

PRESENTATION OF LARGE SCALE SET-ENCODING

## Tech. talk, Samgsung SDS. Seoul, South Korea

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- Scalable Set Encoding with Universal Mini-Batch Consistency and Unbiased Full Set Gradient Approximation
- ICML 2023

JULY 2, 2024 SEANIE LEE · CURRICULUM VITAE

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

# **Publication**

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

• [paper]

• \*: equal contribution

## Conferences

CONFERENCES	
Drug Discovery with Dynamic Goal-aware Fragment	ICML
Seul Lee, <b>Seanie Lee</b> , Kenji Kawaguchi, Sung Ju Hwang	2024
• [paper][code]	
Effective and Efficient Conversation Retrieval for Dialogue State Tracking with Implicit	NAACL
Text Summaries	NAACL
Seanie Lee, Jianpeng Chen, Joris Driesen, Alexandru Coca, Anders Johannsen	2024
• [paper]	
Self-Supervised Dataset Distillation for Transfer Learning	ICLR
Dong Bok Lee*, <b>Seanie Lee</b> *, Joonho Ko, Kenji Kawaguchi, Juho Lee, Sung Ju Hwang	2024
<ul><li>[paper][code]</li><li>*: equal contribution</li></ul>	
	ICLR
DiffusionNAG: Task-guided Neural Architecture Generation with Diffusion Models  Sohyun Ahn*, Hayeon Lee*, Jaehyeong Jo, Seanie Lee, Sung Ju Hwang	2024
• [paper][code]	2027
• *: equal contribution	
Scalable Set Encoding with Universal Mini-Batch Consistency and Unbiased Full Set	1014
Gradient Approximation	ICML
Jeffrey Willette*, <b>Seanie Lee</b> *, Bruno Andreis, Kenji Kawaguchi, Juho Lee, Sung Ju Hwang	2023
• [paper][code]	
• *: equal contribution	
Margin-based Neural Network Watermarking	ICML
Byungjoo Kim, Suyoung Lee, <b>Seanie Lee</b> , Sooel Son, Sung Ju Hwang  • [paper]	2023
	ICLD
Self-Supervised Set Representation Learning for Unsupervised Meta-Learning	ICLR 2023
Dong Bok Lee*, <b>Seanie Lee</b> *, Kenji Kawaguchi, Yunji Kim, Jihwan Bang, Jung-Woo Ha, Sung Ju Hwang  • [paper]	2023
• *: equal contribution	
Self-Distillation for Further Pre-training of Transformers	ICLR
Seanie Lee, Minki Kang, Juho Lee, Sung Ju Hwang, Kenji Kawaguchi	2023
• [paper][code]	
Set-based Meta-Interpolation for Few-Task Meta-Learning	NeurlPS
Seanie Lee*, Bruno Andreis*, Kenji Kawaguchi, Sung Ju Hwang	2022
• [paper] [code]	
• *: equal contribution	
On Divergence Measures for Bayesian Pseudocoresets	NeurlPS
Balhae Kim, Jungwon Choi, <b>Seanie Lee</b> , Yoonho Lee, Jung-Woo Ha, Juho Lee  • [paper]	2022
Set Based Stochastic Subsampling	ICML
Bruno Andreis, <b>Seanie Lee</b> , A. Tuan Nguyen, Juho Lee, Eunho Yang, Sung Ju Hwang  • [paper]	2022
Sequential Reptile: Inter-Task Gradient Alignment for Multilingual Learning	ICLR

2022

Learning to Perturb Word Embeddings for Out-of-distribution QA	ACL
SEANIE LEE*, MINKI KANG*, JUHO LEE, SUNG JU HWANG	2021
• [paper][code]	
• *: equal contribution	
Contrastive Learning with Adversarial Perturbations for Conditional Text Generation	ICLR
SEANIE LEE*, DONG BOK LEE*, SUNG JU HWANG	2021
• [paper][code]	
• *: equal contribution	
Meta-GMVAE: Mixture of Gaussian VAE for Unsupervised Meta-Learning	ICLR
Dong Bok Lee, Dongchan Min, <b>Seanie Lee</b> , Sung Ju Hwang	2021
• [paper][code]	
Generating Diverse and Consistent QA pairs from Contexts with Information-Maximizing	ACI
Hierarchical Conditional VAEs	/ICL
Dong Bok Lee*, <b>Seanie Lee</b> *, 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	INTERSPEECH
on a New Open Benchmark Dataset	INTERSPEECH
Kyubyong Park*, <b>Seanie Lee*</b>	2020
• [paper][code]	
• *: equal contribution	

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