Seanie **Lee**

Regularization · Data Augmentation

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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: Regularization for Deep Neural Networks.

KAIST (Korea Advanced Institute of Science and Technology) — *Daejeon, S.Korea*

M.S. in Artificial Intelligence — *Mar. 2020 - Feb. 2022*

- Supervised by Sung Ju Hwang and Juho Lee
- Master Thesis: Data augmentation for natural language processing

Yonsei University — *Seoul, S.Korea*

B.A. in Library and Information Science — *Mar. 2011 - Feb. 2018*

Experience

Apple — *Cambridge, UK*

Internship — *May 2023 - September 2023*

- Research internship at Siri modeling team, hosted by Anders Johannsen.

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

2023	**Apple AI/ML PhD Fellowship**, Recipient of Apple Scholars in AI/ML	*Coupertino, US*
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

Tech. talk, Samgsung SDS. — *Seoul, South Korea*

Presentation of Info-HCVAE — *22.May. 2023*

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

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

Conferences

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

Jeffrey Willette*, **Seanie Lee***, Bruno Andreis, Kenji Kawaguchi, Juho Lee, Sung Ju Hwang

- [paper]

Margin-based Neural Network Watermarking — *ICML 2023*

Byungjoo Kim, Suyoung Lee, **Seanie Lee**, Sooel Son, Sung Ju Hwang

- [paper]

Self-Supervised Set Representation Learning for Unsupervised Meta-Learning — *ICLR 2023*

Dong Bok Lee*, **Seanie Lee***, Kenji Kawaguchi, Yunji Kim, Jihwan Bang, Jung-Woo Ha, Sung Ju Hwang

- [paper]

Self-Distillation for Further Pre-training of Transformers — *ICLR 2023*

Seanie Lee, Minki Kang, Juho Lee, Sung Ju Hwang, Kenji Kawaguchi

- [paper]

Set-based Meta-Interpolation for Few-Task Meta-Learning — *NeurIPS 2022*

Seanie Lee*, Bruno Andreis*, Kenji Kawaguchi, Sung Ju Hwang.

- [paper]

On Divergence Measures for Bayesian Pseudocoresets — *NeurIPS 2022*

Balhae Kim, Jungwon Choi, **Seanie Lee**, Yoonho Lee, Jung-Woo Ha, Juho Lee

- [paper]

Set Based Stochastic Subsampling — *ICML 2022*

Bruno Andreis, **Seanie Lee**, A. Tuan Nguyen, Juho Lee, Eunho Yang, Sung Ju Hwang.

- [paper]

Sequential Reptile: Inter-Task Gradient Alignment for Multilingual Learning — *ICLR 2022*

Seanie Lee*, Hae Beom Lee*, Juho Lee, Sung Ju Hwang.

- [paper]
- *: equal contribution

Learning to Perturb Word Embeddings for Out-of-distribution QA — *ACL 2021*

Seanie Lee*, Minki Kang*, Juho Lee, Sung Ju Hwang.

- [paper][code]
- *: equal contribution

Contrastive Learning with Adversarial Perturbations for Conditional Text Generation — *ICLR 2021*

Seanie Lee*, Dong Bok Lee*, Sung Ju Hwang.

- [paper][code]
- *: equal contribution

Meta-GMVAE: Mixture of Gaussian VAE for Unsupervised Meta-Learning — *ICLR 2021*

Dong Bok Lee, Dongchan Min, **Seanie Lee**, Sung Ju Hwang.

- [paper][code]

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

Dong Bok Lee*, **Seanie Lee***, WooTae Jeong, Donghwan Kim, Sung Ju Hwang

- [paper] [code][video]
- *: equal contribution

g2pM: A Neural Grapheme-to-Phoneme Conversion Package for Mandarin Chinese Based on a New Open Benchmark Dataset — *INTERSPEECH 2020*

Kyubyong Park*, **Seanie Lee***

- [paper][code]
- *: equal contribution