Seanie **Lee**

NATURAL LANGUAGE PROCESSING · BAYESIAN DEEP LEARNING ·

291 Daehak-ro, Yuseong-gu, Daejeon, Korea 34141

✉ lsnfamily02@gmail.com | 🏠 seanie12.github.io | 🔗 seanie12 | 🎓 Seanie Lee

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

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
- Research interest: Natural Language Processing, Meta Learning, Bayesian Deep Learning.

Yonsei University   *Seoul, S.Korea*

B.A. IN LIBRARY AND INFORMATION SCIENCE   *Mar. 2011 - Feb. 2018*

- GPA: 4.18/4.30

Publication

CONFERENCES

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

SEANIE LEE*, HAE BEOM LEE*, JUHO LEE, SUNG JU HWANG.   *2022*

- [paper]
- *: equal contribution

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, SEANIE LEE, SUNG JU HWANG.   *2021*

- [paper][code]

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

Korea Advanced Institute of Science and Technology

Daejeon, S.Korea

Graduate Research Assistant

March 2020 - Present

- Research Assistant at MLAI group, supervised by Sung Ju Hwang.

Korea Advanced Institute of Science and Technology

Daejeon, S.Korea

Teaching Assistant

Mar. 2020 - present

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

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Seoul, S.Korea

Internship

Feb. 2019 - Jan. 2020

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

Awards

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, 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

Academic Services

2021   **Reviewer,** ICML