Kyungjae Lee

Research Scientist, Advanced Machine Learning Lab, LG AI Research

✉ kyungjae.lee@lgresearch.ai

Interest	• Natural Language Processing, Large Language Model, Question Answering

Education
- Yonsei University, Seoul, Republic of Korea ~ Feb 2022
  Ph.D. Student, Adviser: Seung-won Hwang (GPA: 4.21 / 4.30),
- Yonsei University, Seoul, Republic of Korea ~ Feb 2016
  B.S., Electrical and Electronic Engineering (Major GPA: 4.05 / 4.30)

Publications

- **CogQA: Answering Advanced Questions on Scientific Articles**
  Yoonjoo Lee*, <u>Kyungjae Lee</u>*, Sunghyun Park, Dasol Hwang, Jaehyeon Kim, Hong-in Lee, Moontae Lee (*co-first authors)
  In *ICML 2023*.

- **When to Read Documents or QA History: On Unified and Selective Open-domain QA**
  <u>Kyungjae Lee</u>*, Sang-eun Han*, Seung-won Hwang, Moontae Lee (*co-first authors)
  In *Findings of ACL 2023*.

- **On Complementarity Objectives for Hybrid Retrieval**
  Dohyeon Lee, Seung-won Hwang, Kyungjae Lee, Seungtaek Choi, Sunghyun Park
  In *ACL 2023*.

- **Exploring the Benefits of Training Expert Language Models over Instruction Tuning**
  Joel Jang, Seungone Kim, Seonghyeon Ye, Doyoung Kim, Lajanugen Logeswaran, Moontae Lee, <u>Kyungjae Lee</u>, Minjoon Seo.
  In ICML 2023.

- **Plug-and-Play Adaptation for Continuously-updated QA**
  <u>Kyungjae Lee</u>, Wookje Han, Seung-won Hwang, Hwaran Lee, Joonsuk Park, Sang-Woo Lee.
  In *findings of ACL 2022*.

- **Robustifying Multi-hop QA through Pseudo-Evidentiality Training**
  <u>Kyungjae Lee</u>, Seung-won Hwang, Sang-eun Han, and Dohyeon Lee.
  In *ACL 2021*.

- **Query Generation for Multimodal Documents**
  Kyungho Kim, <u>Kyungjae Lee</u>, Seung-won Hwang, Young-In Song and Seungwook Lee.
  In *EACL 2021*.

- **Instructional Video Summarization using Attentive Knowledge Grounding**
  Kyungho Kim*, <u>Kyungjae Lee</u>*, and Seung-won Hwang.
  In *ECML-PKDD 2020* (*co-first authors, demo track)

- **Segment-then-Rank: Non-factoid Question Answering on Instructional Videos**
  <u>Kyungjae Lee</u>, Nan Duan, Lei Ji, Jason Li, and Seung-won Hwang.
  In *AAAI 2020*, New York.

- **Learning with Limited Data for Multilingual Reading Comprehension**
  Kyungjae Lee*, Syunhyun Park*, Hojae Han, Jinyoung Yeo, Seung-won Hwang, Juho Lee.
  In *EMNLP 2019* (*co-first authors, oral presentation), Hong Kong.

- **Categorical Metadata Representation for Customized Text Classification**
  Jihyeok Kim*, Reinald Kim Amplayo*, Kyungjae Lee, Sua Sung, Minji Seo, Seung-won Hwang.
  In *TACL 2019* (*co-first authors, ACL 2019 talk).

- **Semi-supervised Training Data Generation for Multilingual Question Answering**
  Kyungjae Lee, Kyoungho Yoon, Sunghyun Park, Seung-won Hwang.
  In *LREC 2018*, Japan.

- **Translations as Additional Contexts for Sentence Classification**
  Reinald Kim Amplayo, Kyungjae Lee, Jinyoung Yeo, and Seung-won Hwang.
  In *IJCAI 2018*, Stockholm.

- **Gradable Adjective Embedding for Commonsense Knowledge**
  Kyungjae Lee, Hyunsouk Cho, and Seung-won Hwang.
  In *PAKDD 2017*.

Work & Teaching Experiences	- **Lecturer**: Yonsei University, Artificial Intelligence (CS4108) (Spring 2020), LG CNS / SKT, Natural Language Processing (2018)
	- **Internship**: Microsoft Research Asia (Sep 2018~Mar 2019, "Skip the boring intro" project, Non-factoid video QA, accepted at AAAI 2020)
	- **Project**: Student's Semantic Trajectory Representation & Characterization (supported by Microsoft Research, 2016)
Honors & Awards	- NAVER Ph.D. Fellowship Award 2019
	- Google Travel Grant for EMNLP 2019
	- Global Ph.D. Fellowship by National Research Foundation of Korea (Tuition and Stipend for 5 years, 2017 ~ Present)
	- BIG 2017 CUP (sponsored by Microsoft) Data competition, 3rd winner
	- Undergraduate Yonsei Scholarship (Full Tuition for 4 years)
	- Undergraduate, 2012-13 semester GPA honors
Professional Services	- Reviewer: ACL (2020~), EMNLP (2021~), NAACL (2021), VLDB (2019, 2020)
References	Seung-won Hwang, Ph.D.
	- Professor, Department of Computer Science and Engineering, Seoul National University
	Nan Duan, Ph.D.
	- Principal Researcher Manager, Microsoft Research Asia, Beijing, China