## Kyungjae Lee

## Research Scientist, Advanced Machine Learning Lab, LG AI Research

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Interest	•	Large Language Model, Retrieval-augmented LMs, Scientific Reasoning		
Education	•	Yonsei University, Seoul, Republic of Korea Ph.D. Student, Adviser: Seung-won Hwang (GPA: 4.21 / 4.30), Yonsei University, Seoul, Republic of Korea B.S., Electrical and Electronic Engineering (Major GPA: 4.05 / 4	~ Feb 2022 ~ Feb 2016 30)	
Employment	• •	Research Scientist, LG AI Research Lecturer, Yonsei University (CS4108) Research Intern, Microsoft Research Asia	Dec 2021 ~ Current Spring 2020 Sep 2018 ~ Mar 2019	
Publications	•	<b>PreWoMe: Exploiting Presuppositions as Working Memory for Long Form Question Answering</b> Wookje Han, Jinsol Park, <b>Kyungjae Lee</b> (corresponding author) <i>In EMNLP</i> 2023.		
	•	<b>On Monotonic Aggregation for Open-domain QA</b> Sang-eun Han, Yeonseok Jeong, Seung-won Hwang, <u>Kyungjae I</u> <i>In Interspeech 2023</i> .	Lee	
	•	<b>QASA: Advanced Question Answering on Scientific Articles</b> (Yoonjoo Lee*, <u>Kyungjae Lee</u> *), Sunghyun Park, Dasol Hwang, Jaehyeon Kim, Hong-in Lee, Moontae Lee (*co-first authors) <i>In ICML</i> 2023.		
	•	<b>Exploring the Benefits of Training Expert Language Models ove</b> Joel Jang, Seungone Kim, Seonghyeon Ye, Doyoung Kim, Lajanug Moontae Lee, <b>Kyungjae Lee</b> , Minjoon Seo. In ICML 2023.	÷	
	•	When to Read Documents or QA History: On Unified and Select (Kyungjae Lee*, Sang-eun Han*), Seung-won Hwang, Moontae Lee In ACL findings 2023.		

• On Complementarity Objectives for Hybrid Retrieval Dohyeon Lee, Seung-won Hwang, <u>Kyungjae Lee</u>, Seungtaek Choi, Sunghyun Park. In ACL 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 *ACL findings 2022*.
- Robustifying Multi-hop QA through Pseudo-Evidentiality Training Kyungjae Lee, 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\*, Kyungjae Lee\*), and Seung-won Hwang. In *ECML-PKDD 2020* (\*co-first authors, demo track)
- Segment-then-Rank: Non-factoid Question Answering on Instructional Videos Kyungjae Lee, 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<sup>\*</sup>, Syunhyun Park<sup>\*</sup>), 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 <u>Kyungjae Lee</u>, Hyunsouk Cho, and Seung-won Hwang. In *PAKDD 2017*.
- Teaching &<br/>Project<br/>ExperiencesLecturer: Yonsei University, Artificial Intelligence (CS4108) (Spring 2020),<br/>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	<ul> <li>NAVER Ph.D. Fellowship Award 2019</li> <li>Google Travel Grant for EMNLP 2019</li> <li>Global Ph.D. Fellowship by National Research Foundation of Korea (Tuition and Stipend for 5 years, 2017 ~ Present)</li> <li>BIG 2017 CUP (sponsored by Microsoft) Data competition, 3rd winner</li> <li>Undergraduate Yonsei Scholarship (Full Tuition for 4 years)</li> <li>Undergraduate, 2012-13 semester GPA honors</li> </ul>
Professional Services	• Reviewer: ACL (2020~), EMNLP (2021~), NAACL (2021), VLDB (2019, 2020)
References	<ul><li>Seung-won Hwang, Ph.D.</li><li>Professor, Department of Computer Science and Engineering, Seoul National University</li></ul>

Nan Duan, Ph.D.

• Principal Researcher Manager, Microsoft Research Asia, Beijing, China