Takyoung Kim

Ph.D. Student at the University of Illinois Urbana-Champaign (UIUC)

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 ➤ Google Scholar

Interests

My research interest lies in the intersection of Natural Language Processing and Communication. I am particularly interested in building communicative language models (LMs) that can understand social and cognitive context, evaluating preference during interactions, and exploring how LMs compose knowledge both from parametric and external sources.

Education

University of Illinois Urbana-Champaign, Urbana, IL, USA Aug 2024 - Present

Doctor of Philosophy, Computer Science

Advisor: Dilek Hakkani-Tür

Korea University, Seoul, South Korea

Master of Engineering, Industrial Management Engineering

Advisory Pilosophy Kong (gurrantly et Sooul National University)

Mar 2013 - Aug 2020

Advisor: Pilsung Kang (currently at Seoul National University)
Thesis: Relaxing Unrealistic Assumptions of Dataset and Evaluation Metric in Dialogue State Tracking

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Sungkyunkwan University, Seoul, South Korea ☑

Bachelor of Science in Engineering, Interdisciplinary Program of Convergent Software

Bachelor of Science in Engineering, Interdisciplinary Program of Convergent Software Bachelor of Media & Communication (Leave of absence for military service: Feb 2015 - Nov 2016)

Research Experience

Amazon | Alexa Conversational Modeling & Learning Team Bellevue, WA, USA

May 2025 (Expected)

Applied Scientist Intern (Mentor: Chengyuan Ma)

University of Illinois Urbana-Champaign | Conversational AI Lab Urbana, IL, USA 🗹 Aug 2024 - Present

Graduate Research Assistant (Advisor: Dilek Hakkani-Tür) Working on cognitive interactions in real-world environments

Korea University | Data Science & Business Analytics Lab Seoul, South Korea 🗹 Apr 2024 - Jul 2024

Research Associate (Advisor: Pilsung Kang)

Worked on retrieval-augmented language models specialized in Korean digital media

LG AI Research | Advanced Machine Learning Lab Seoul, South Korea 🗹 Apr 2023 - Mar 2024

Research Intern (Mentors: Kyungjae Lee, Moontae Lee)

Worked on improving long-form responses of retrieval-augmented language models via planning [1]

Research Intern (Mentor: Sungdong Kim)

Worked on revealing innate bias in task-oriented dialogue research via interactive study [2] Worked on constructing safety benchmark for sensitive questions [5] and social biases [4]

Korea University | Data Science & Business Analytics Lab Seoul, South Korea 🗹 Sep 2020 - Jun 2022

Graduate Research Assistant (Advisor: Pilsung Kang)

Worked on analyzing realistic biases and limitations of dialogue state tracking [7, 6, 3]

Developed algorithms and pipelines in various domains, such as news [8], car, and ocean waves

Publications * indicates equal contribution

- [1] Learning to Explore and Select for Coverage-Conditioned Retrieval-Augmented Generation (**)

 Takyoung Kim, Kyungjae Lee, Young Rok Jang, Ji Yong Cho, Gangwoo Kim, Minseok Cho, Moontae Lee
 Nations of the Americas Chapter of the Association for Computational Linguistics

 NAACL 2025 Findings
- [2] Revealing User Familiarity Bias in Task-Oriented Dialogue via Interactive Evaluation

 Takyoung Kim, Jamin Shin, Young-Ho Kim, Sanghwan Bae, Sungdong Kim

 Workshop on NLP for Conversational AI (Oral, Best Paper Award)

 NLP4ConvAI, ACL 2024

January 2025 1 of 3 Takyoung Kim

[3]	DSTEA: Improving Dialogue State Tracking via Entity Adaptive Pre-training Yukyung Lee, Takyoung Kim, Hoonsang Yoon, Pilsung Kang, Junseong Bang, Misuk Kim Knowledge-Based Systems (Q1, Impact Factor: 8.8)	KBS 2024	
	Workshop on Knowledge Augmented Methods for NLP	KnowledgeNLP, KDD 2023	
[4]	KoSBi: A Dataset for Mitigating Social Bias Risks Towards Safer Large Language Me Hwaran Lee*, Seokhee Hong*, Joonsuk Park, <u>Takyoung Kim</u> , Gunhee Kim, Jung-Woo Ha	odel Applications	
	Annual Meeting of the Association for Computational Linguistics (Industry Track)	ACL 2023	
[5]	SQuARe: A Large-Scale Dataset of Sensitive Questions and Acceptable Response Machine Collaboration	s Created Through Human-	
	Hwaran Lee*, Seokhee Hong*, Joonsuk Park, <u>Takyoung Kim</u> , Meeyoung Cha, Yejin Choi, Eun-Ju Lee, Yong Lim, Alice Oh, Sangchul Park, Jung-Woo Ha Annual Meeting of the Association for Computational Linquistics (Oral, Best Paper Nomination)	Byoungpil Kim, Gunhee Kim, ACL 2023	
F.1			
[6]	Oh My Mistake!: Toward Realistic Dialogue State Tracking including Turnback Utt Takyoung Kim, Yukyung Lee, Hoonsang Yoon, Pilsung Kang, Junseong Bang, Misuk Kim	erances 🖹	
	Towards Semi-Supervised and Reinforced Task-Oriented Dialog Systems	SereTOD, EMNLP 2022	
[7]	e Tracking 🖺		
	<u>Takyoung Kim</u> , Hoonsang Yoon, Yukyung Lee, Pilsung Kang, Misuk Kim Annual Meeting of the Association for Computational Linguistics (Short)	ACL 2022	
[8]	ng an Integrated Framework of Korean Text Summarization and Text-to-Speech		
	Takyoung Kim, Jina Kim, Hyeongwon Kang, Subin Kim, Pilsung Kang	WIII 0000	
	Journal of Korean Institute of Industrial Engineers	JKIIE 2022	
Honors and Awards			
CS I	PhD Fellowship University of Illinois Urbana-Champaign	Aug 2024 - May 2025	
Best	t Paper Award ACL 2024 NLP for Conversational AI Workshop	Aug 2024	
Best Student Feedback Award, Research Ideation Contest Korea University Feb 2021, Dec 2021			
2nd Place (2,500 USD), MyData Acting Hackathon Ministry of Science and ICT Oct 201			
Mer	rit-based Scholarship, Computer Science Coursework Sungkyunkwan University	Spring 2018, Fall 2018	
Тезо	ching Experience		
	459101 Natural Language Processing Hankuk University of Foreign Studies hing Assistant (Instructor: Yukyung Lee)	Feb 2024 - Jun 2024	
	ustrial Machine Learning LG Electronics Il Teaching Assistant (Instructor: Pilsung Kang)	Jan 2022 - Apr 2022	
	earch Mentoring Hyundai Mobis arch Project Assistant (Instructor: Pilsung Kang)	Jul 2021 - Sep 2021	
Ind	ustrial Machine Learning and Deep Learning LG Innotek, SK Hynix	Jul 2021 - Aug 2021	

Teaching Assistant (Instructor: Pilsung Kang)

Academic Service

Conference Reviewer	
Nations of the Americas Chapter of the Association for Computational Linguistics (NAACL)	2025
Neural Information Processing Systems (NeurIPS)	2024
European Chapter of the Association for Computational Linguistics (EACL)	2024
Empirical Methods in Natural Language Processing (EMNLP) - Industry Track	2023 - 2024
Empirical Methods in Natural Language Processing (EMNLP)	2023 - 2024
Neural Information Processing Systems (NeurIPS) - Datasets & Benchmarks	2022 - 2024
Journal Reviewer	
Knowledge-Based Systems	2023 - 2024
Others	
ACL Rolling Review (ARR)	2023 - Present