

Yoonsang Lee

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EDUCATION	Seoul National University B.S. in Computer Science and Engineering B.S. in Mathematical Sciences * includes 1.5 year mandatory military service	Mar 2019 - Present <i>Seoul, Korea</i>
	The University of Texas at Austin Exchange Student in Computer Science	Aug - Dec 2023 <i>Austin, TX</i>
	Gyeonggi Science High School for the Gifted High school for students specialized in mathematics and science	Mar 2016 - Feb 2019 <i>Suwon, Korea</i>
PUBLICATIONS	Yoonsang Lee* , Pranav Atreya*, Xi Ye, Eunsol Choi Crafting In-context Examples according to LMs' Parametric Knowledge Findings of NAACL 2024	
	Yoonsang Lee* , Dongryeol Lee*, Kyomin Jung MILAB at PragTag-2023: Enhancing Cross-Domain Generalization through Data Augmentation with Reduced Uncertainty EMNLP @ ArgMining 2023 *: equal contribution	
RESEARCH EXPERIENCE	UT Austin NLP Lab Research Assistant (Advisor: Dr. Eunsol Choi) – Worked on project of various prompting strategies under multi-answer QA tasks, with focus on language model's parametric knowledge regarding in-context examples.	Aug 2023 - Present
	Language and Data Intelligence Lab Research Assistant (Advisor: Dr. Seungwon Hwang) – Enhanced performance of dense retrieval on unseen domains by incorporating diverse search intents within synthetic query generation process.	Jul - Oct 2023
	Machine Intelligence Lab Research Assistant (Advisor: Dr. Kyomin Jung) – Suggested ensemble schema to reduce uncertainty while performing data augmentation for pragmatic tagging. Ranked 1st on zero-shot track at ArgMining workshop.	Jul 2022 - Jul 2023
INTERSHIPS	Naver Clova AI , <i>Research Intern</i> – Implemented causal deep learning with alternating transformer on common DAG datasets.	Jan - Feb 2023
TEACHING	Algorithms, <i>Teaching Assistant</i>	Spring 2024
	Computer Architecture, <i>Teaching Assistant</i>	Spring 2023
	Electrical and Electronic Circuits, <i>Teaching Assistant</i>	Fall 2020

HONORS AND AWARDS	Semicon Scholarship - 4,500 USD in total	2023 - 2024
	Merit Based Scholarship - 7,800 USD over four years	2019 - 2024
	Army Commendation Medal	2022
	4th Place, Selected Topic Seminar 2 Presentation	2019
	Silver, Korea Olympiad in Informatics	2018
PROJECTS	Private Mobile Chatbot Application	Spring 2023
	– Developed android chatbot application for automatic and private response of customer complaints. Implemented with homomorphic encryption, MPNet, and ChatGPT.	
	Modality Translation through Conditional Encoder-Decoder	Spring 2023
	– Designed general architecture that doesn't rely on specific latent encoder-decoder architecture and provides more accurate latent space prediction across different modalities.	
	NowSee, Real-time Weather Community	Fall 2022
TECHNICAL SKILLS	– Developed web service for real-time weather community, where users can share live weather information and statistics.	
	Finding Abandoned Animals with Keywords	Summer 2019
	– Developed precise search program for finding one's abandoned animal based on specified categories and similar keywords.	
	Collaborative Filtering Recommendation System Correcting User Bias Based on Comments-Rating Relationship	Spring 2018
	– Designed CNN based recommender system to unbiased user ratings with movie comments.	
SELECTED COURSEWORK	Programming Languages C++, Java, Python, R, HTML/CSS, Javascript, Kotlin, SQL	
	Frameworks and Tools PyTorch, ReactJS, Tensorflow, Django, Git, Docker	
EXTRA- CURRICULAR	Languages Korean (native), English (TOEFL 100 TOEIC 980)	
	Natural Language Processing, Information Retrieval and Web Search, Human-Computer Interaction, ML for Visual Understanding, Pattern Recognition, Statistical Computing	
	LikeLion at SNU	Mar - Nov 2022
	– Studied HTML/CSS, ReactJS, Django for web development	
	Sergeant, Korean Augmentaion to the US Army, <i>Camp Humphreys</i>	Dec 2020 - Jun 2022
	International Olympiad in Informatics Training Camp in Korea	Jul - Aug 2016, Jan 2017
	– Studied advanced data structures and algorithms	