Yoonsang Lee

lysianthus@snu.ac.kr ⋄ lilys012.github.io

EDUCATION	**Seoul National University**	Mar 2019 - Present
	B.S. in Computer Science and Engineering	*Seoul, Korea*
	* includes 1.5 year mandatory military service	

The University of Texas at Austin — Aug - Dec 2023
Exchange Student in Computer Science — *Austin, TX*

Gyeonggi Science High School for the Gifted — Mar 2016 - Feb 2019
High school for students specialized in mathematics and science — *Suwon, Korea*

PUBLICATIONS

Yoonsang Lee, Xi Ye, Eunsol Choi
AmbigDocs: Reasoning across Documents on Different Entities under the Same Name
arXiv 2024

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 — Aug 2023 - Present
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.

Language and Data Intelligence Lab — Jul - Oct 2023
Research Assistant (Advisor: Dr. Seungwon Hwang)

– Enhanced performance of dense retrieval on unseen domains by incorporating diverse search intents within synthetic query generation process.

Machine Intelligence Lab — Jul 2022 - Jul 2023
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.

INTERSHIPS

Naver Clova AI, *Research Intern* — Jan - Feb 2023

– Implemented causal deep learning with alternating transformer on common DAG datasets.

TEACHING

Algorithms, *Teaching Assistant* — Spring 2024
Computer Architecture, *Teaching Assistant* — Spring 2023
Electrical and Electronic Circuits, *Teaching Assistant* — Fall 2020

HONORS AND AWARDS		
	Semiconductor Scholarship	2023 - 2024
	Merit Based Scholarship	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
– 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   Spring 2018
Bias Based on Comments-Rating Relationship
– Designed CNN based recommender system to unbias user ratings with movie comments.

TECHNICAL SKILLS

Programming Languages C++, Java, Python, R, HTML/CSS, Javascript, Kotlin, SQL
Frameworks and Tools PyTorch, ReactJS, Tensorflow, Django, Git, Docker
Languages Korean (native), English (TOEFL 100 TOEIC 980)

SELECTED COURSEWORK

Natural Language Processing, Information Retrieval and Web Search, Human-Computer Interaction, ML for Visual Understanding, Pattern Recognition, Statistical Computing

EXTRA-CURRICULAR

LikeLion at SNU		Mar - Nov 2022
- Studied HTML/CSS, ReactJS, Django for web development		
Sergeant, Korean Augmentaion to the US Army, *Camp Humphreys*		Dec 2020 - Jun 2022
International Olympiad in Informatics Training Camp in Korea		Jul - Aug 2016, Jan 2017
- Studied advanced data structures and algorithms		