

Jaehee Kim

PH.D STUDENT

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Education

Seoul National University

PH.D. CANDIDATE INDUSTRIAL ENGINEERING

- Advisor: Prof. Pilsung Kang
- Data Science and Business Analytics Lab. [homepage]

Seoul Korea

Sep 2024 - Current

Korea University

M.S. INDUSTRIAL AND MANAGEMENT ENGINEERING

- Advisor: Prof. Pilsung Kang
- Data Science and Business Analytics Lab. [homepage]

Seoul Korea

Mar 2022 - Aug 2024

Sungkyunkwan University

BACHELOR OF ARTS IN CONSUMER SCIENCE

Seoul Korea

Mar 2014 - Feb 2021

A: 1st Author / Ω: Corresponding Author

Publications

Jaehee Kim^A, Pilsung Kang^Ω. AlienLM: Alienization of Language for Privacy-Preserving API Interaction with LLMs, *under review, 2025*.

Yukyung Lee^A, JoongHoon Kim, **Jaehee Kim**, Hyowon Cho, Jaewook Kang, Pilsung Kang^Ω, Najoung Kim^Ω. CheckEval: A reliable LLM-as-a-Judge framework for evaluating text generation using checklists. *Association for Computational Linguistics (EMNLP)*, 2025.

Joonwon Jang^A, **Jaehee Kim**, Wonbin Kweon, Seonghyeon Lee, Hwanjo Yu^Ω. Verbosity-Aware Rationale Reduction: Sentence-Level Rationale Reduction for Efficient and Effective Reasoning. *Annual Meeting of the Association for Computational Linguistics (ACL)*, 2025.

Jaehee Kim^A, Yukyung Lee and Pilsung Kang^Ω. A Gradient Accumulation Method for Dense Retriever under Memory Constraint. *Neural Information Processing Systems (NeurIPS)*, 2024.

Joonghoon Kim^A, Saeran Park, Jiyeon Lee, **Jaehee Kim**, Pilsung Kang^Ω. Development of an Unsupervised Learning-Based Fake News Generation Framework and Study the Effectiveness of Dataset Quality Evaluation Metrics. *Korean Institute of Industrial Engineers*, 50(1), 36-44.

Yukyung Lee^A, Joonghoon Kim^A, **Jaehee Kim**, Hyowon Cho, and Pilsung Kang^Ω. CheckEval: Robust Evaluation Framework using Large Language Model via Checklist. *CHI 2024 Workshop on Human-centered Evaluation and Auditing of Language Models*.

Yookyung Kho^A, **Jaehee Kim**, Pilsung Kang^Ω. Boosting Prompt-Based Self-Training With Mapping-Free Automatic Verbalizer for Multi-Class Classification. *Findings of the Association for Computational Linguistics (EMNLP)*, 2023.

Yukyung Lee^A, **Jaehee Kim**, Doyoon Kim, Yookyung Kho, Younsun Kim, Pilsung Kang^Ω. Painsight: An Extendable Opinion Mining Framework for Detecting Pain Points Based on Online Customer Reviews. *ACL 2023 13th Workshop on Computational Approaches to Subjectivity, Sentiment & Social Media Analysis (Oral)*

Jaehyuk Heo^A, YongGi Jeong, Sunwoo Kim, **Jaehee Kim**, Pilsung Kang^Ω. REVECA - Rich Encoder-decoder framework for Video Event CAptioner. *CVPR 2022 Workshop on LOnG-form VidEo Understanding Challenge*.

Research Project _____

Development of Worker-Friendly Innovative AI Agents for Autonomous Manufacturing *Apr 2025 - Current*
 GRANTED BY INSTITUTE FOR INFORMATION & COMMUNICATIONS TECHNOLOGY PLANNING & EVALUATION (IITP)

- Developed multi-agent and multi-party engine
- Built agent orchestration pipeline
- Implemented Retrieval-Augmented Generation (RAG) system

Data Construction and Optimization for Training/Inference of AI Chatbot *Mar 2025 - Current*
 GRANTED BY SAMSUNG FIRE & MARINE INSURANCE PROJECT

- Designed document preprocessing pipeline architecture
- Developed PDF parsing module
- Constructed training dataset and developed training methodology utilizing hierarchical-structured documents

Developing an Information Retrieval System for Scholarly Achievement and Research Projects in the College of Engineering *Jan 2025 - July 2025*

GRANTED BY COLLEGE OF ENGINEERING, SEOUL NATIONAL UNIVERSITY [HOMEPAGE]

- Developing Evaluation Methods for LLM in Finance Domain
- Constructing Training Data Based on Metadata of Each Laboratory
- Training Dense Retriever in the Scientific Domain

Developing a Large Language Model Evaluation Framework for Financial Domain *Nov 2023 - Aug 2024*

GRANTED BY KAKAOBANK [HOMEPAGE]

- Developing Evaluation Methods for LLM in Finance Domain
- Constructing Evaluation Datasets for Finance Domain
- Evaluating LLMs in Terms of Safety, Truthfulness, and Mathematical Reasoning

Developing Customer Content via Data Analysis Techniques 2nd Stage *Dec 2022 - Nov 2023*

GRANTED BY LG ELECTRONICS [HOMEPAGE]

- Unsupervised Dense Information Retrieval
- Review Clustering
- Text & Meta Information Visualization

Developing Customer Content via Data Analysis Techniques 1st Stage *Apr 2022 - Nov 2022*

GRANTED BY LG ELECTRONICS [HOMEPAGE]

- Sentence Anomaly Detection
- Discovering Pain Point via Clustering
- Clustering via Self-training

Extracurricular Experience _____

Dec 2023 - Jan 2024	Boost Camp Mentor, AI Tech	6
Naver Connect	<ul style="list-style-type: none"> • Boot Camp for Machine Learning(NLP, CV, RecSys) • Generative AI Mentor 	
Sept 2022 - Current	Boost Camp Mentor, AI Tech	4, 5, 7
Naver Connect	<ul style="list-style-type: none"> • Boot Camp for Machine Learning(NLP, CV, RecSys) • NLP Mentor 	

Awards _____

CVPR 2022 LOVEU Workshop
 3RD PLACE *2022*

- Generic Event Boundary Captioning

POSTECH Open INNOVATION Bigdata Challenge
 ENCOURAGEMENT PRIZE *2020*

- Solar Photovoltaics Prediction