

# Hwanhee Lee (이환희)

ASSISTANT PROFESSOR @ CHUNG-ANG UNIVERSITY

✉ hwanheelee@cau.ac.kr | 🌐 hwanheelee1993.github.io | 📞 hwanheelee1993

## Employment

### Chung-Ang University

ASSISTANT PROFESSOR

- Department of Artificial Intelligence/Graduate School of Artificial Intelligence (Language Intelligence Lab.)

Seoul, Korea

Mar. 2023 - Current

### Seoul National University

SENIOR RESEARCHER

- Postdoctoral Researcher, Automation and Systems Research Institute

Seoul, Korea

Sep. 2022 - Feb. 2023

### NAVER CLOVA AI Research

RESEARCH INTERN

- NAVER AI LAB Language Research Team
- Working with Dr. Hwaran Lee, Dr. Kang Min Yoo, and Prof. Joonsuk Park
- Theme: Factual Consistency Evaluation and Optimization for Abstractive Summarization
- Published a paper at NAACL 2022

Seongnam, Korea

Aug. 2021 - Jan. 2022

**Research Interests** Natural Language Processing - Truthfulness and Safety of Language Models

**Current Focus** Safety and Policy Alignment in Language Agents, Context Engineering and Agentic Memory, Multi-Agent Systems

## Education

### Seoul National University

PH.D OF ELECTRICAL AND COMPUTER ENGINEERING

Seoul, Korea

Aug. 2022

- Machine Intelligence Laboratory (Advisor: Prof. Kyomin Jung)
- Thesis: Factual Consistency Evaluation for Conditional Text Generation Systems  
(Committee: Kyuseok Shim, Kyomin Jung, Taesup Moon, Seung-won Hwang (SNU), and JinYeong Bak (SKKU))
- Distinguished Ph.D. Dissertation Award

### Seoul National University

BACHELOR OF ELECTRICAL AND COMPUTER ENGINEERING

Seoul, Korea

Feb. 2017

## Scholarships & Awards

### Outstanding Area Chair

AWARDED BY EMNLP 2024

Nov. 2024

### Adobe Research Gift

GRANTED BY ADOBE RESEARCH (\$28,000)

May. 2024, June. 2023

### Distinguished Ph.D. Dissertation Award

AWARDED BY DEPT. OF ELECTRICAL AND COMPUTER ENGINEERING, SEOUL NATIONAL UNIVERSITY

Aug. 2022

### Youlchon AI STAR Scholarship

GRANTED BY NONGSIM YOULCHON FOUNDATION

Sep. 2021

### Scholarship of Electronics, Electrical and Computer Engineering

GRANTED BY FOUNDATION FOR ELECTRONICS, ELECTRICAL AND COMPUTER ENGINEERING AT SEOUL NATIONAL UNIVERSITY

Mar. 2018

### National Science & Technology Scholarship (Full-tuition)

GRANTED BY KOREA STUDENT AID FOUNDATION

Mar. 2013 - Feb. 2017

# Publications

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## International Conferences

### **ChatInject: Abusing Chat Templates for Prompt Injection in LLM Agents**

HWAN CHANG\*, YONGHYUN JUN\*, HWANHEE LEE†

- The Fourteenth International Conference on Learning Representations (**ICLR 2026**)

### **Personality Editing for Language Models through Adjusting Self-Referential Queries**

SEOJIN HWANG, YUMIN KIM, BYEONGJEONG KIM, HWANHEE LEE†

- The 19th Conference of the European Chapter of the Association for Computational Linguistics (**EACL 2026**)

### **Keep Security! Benchmarking Security Policy Preservation in Large Language Model Contexts Against Indirect Attacks in Question Answering**

HWAN CHANG\*, YUMIN KIM\*, YONGHYEON JUN, HWANHEE LEE†

- The 2025 Conference on Empirical Methods in Natural Language Processing (**EMNLP 2025**)

### **ToDi: Token-wise Distillation via Fine-Grained Divergence Control**

SEONGRYONG JUNG, SUWAN YOON, DONGGEON KIM, HWANHEE LEE†

- The 2025 Conference on Empirical Methods in Natural Language Processing (**EMNLP 2025**)

### **How Do Large Vision-Language Models See Text in Image? Unveiling the Distinctive Role of OCR Heads**

INGEOL BAEK, HWAN CHANG, SUNGHYUN RYU, HWANHEE LEE†

- The 2025 Conference on Empirical Methods in Natural Language Processing (**EMNLP 2025**)

### **SAFE-SQL: Self-Augmented In-Context Learning with Fine-grained Example Selection for Text-to-SQL**

JIMIN LEE, INGEOL BAEK, BYEONGJEONG KIM, HYUNKYUNG BAE, HWANHEE LEE†

- The 2025 Conference on Empirical Methods in Natural Language Processing (**EMNLP 2025**)

### **Event-Driven Storytelling with Multiple Lifelike Humans in a 3D scene**

DONGGEUN LIM, JINSEOK BAE, INWOO HWANG, SEUNGMIN LEE, HWANHEE LEE, YOUNG MIN KIM

- The 2025 International Conference on Computer Vision (**ICCV 2025**)

### **Exploring Persona Sentiment Sensitivity in Personalized Dialogue Generation**

YONGHYUN JUN, HWANHEE LEE†

- The 63rd Annual Meeting of the Association for Computational Linguistics (**ACL 2025**)

### **Dynamic Label Name Refinement for Few-Shot Dialogue Intent Classification**

GYUTAE PARK, INGEOL BAEK, BYEONGJEONG KIM, JOONGBOK SHIN, HWANHEE LEE†

- The 63rd Annual Meeting of the Association for Computational Linguistics (**ACL 2025**)

### **Dynamic Order Template Prediction for Generative Aspect-Based Sentiment Analysis**

YONGHYUN JUN, HWANHEE LEE†

- The 63rd Annual Meeting of the Association for Computational Linguistics (**ACL 2025**)

### **Which Retain Set Matters for LLM Unlearning? A Case Study on Entity Unlearning**

HWAN CHANG, HWANHEE LEE†

- Findings of the Association for Computational Linguistics: ACL 2025 (**Findings of ACL 2025**)

### **Investigating Language Preference of Multilingual RAG systems**

JEONGHYUN PARK, HWANHEE LEE†

- Findings of the Association for Computational Linguistics: ACL 2025 (**Findings of ACL 2025**)

### **AdvisorQA: Towards Helpful and Harmless Advice-seeking Question Answering with Collective Intelligence**

MINBEOM KIM, HWANHEE LEE, JOONSUK PARK, HWARAN LEE, KYOMIN JUNG

- 2025 Annual Conference of the North American Chapter of the Association for Computational Linguistics (**NAACL 2025**)

### **Probing-RAG: Self-Probing to Guide Language Models in Selective Document Retrieval**

INGEOL BAEK, HWAN CHANG, BYEONGJEONG KIM, JIMIN LEE, HWANHEE LEE†

- Findings of the Association for Computational Linguistics: NAACL 2025 (**Findings of NAACL 2025**)

## **FIZZ: Factual Inconsistency Detection by Zoom-in Summary and Zoom-out Document**

JOONHO YANG, SEUNGHYUN YOON, BYEONGJEONG KIM, HWANHEE LEE†

- Conference on Empirical Methods in Natural Language Processing (**EMNLP 2024**)

## **IterCQR: Iterative Conversational Query Reformulation with Retrieval Guidance**

YUNAH JANG, KANG-IL LEE, HYUNKYUNG BAE, HWANHEE LEE†, KYOMIN JUNG†

- 2024 Annual Conference of the North American Chapter of the Association for Computational Linguistics (**NAACL 2024**)

## **LifeTox: Unveiling Implicit Toxicity in Life Advice**

MINBEOM KIM, JAHYUN KOO, HWANHEE LEE, JOONSUK PARK†, HWARAN LEE, KYOMIN JUNG†

- 2024 Annual Conference of the North American Chapter of the Association for Computational Linguistics (**NAACL 2024**)

## **KoCoSa: Korean Context-aware Sarcasm Detection Dataset**

YUMIN KIM\*, HEEJAE SUH\*, MINGI KIM\*, DONGYEON WON\*, HWANHEE LEE†

- The 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (**COLING 2024**)

## **Kosmic: Korean Text Similarity Metric Reflecting Honorific Distinctions**

YERIN HWANG, YONGIL KIM, HYUNKYUNG BAE, JEESOO BANG, HWANHEE LEE†, KYOMIN JUNG†

- The 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (**COLING 2024**)

## **Asking Clarification Questions to Handle Ambiguity in Open-Domain QA**

DONGRYEOL LEE, SEGWANG KIM, MINWOO LEE, HWANHEE LEE, JOONSUK PARK, SANG-WOO LEE, KYOMIN JUNG

- Findings of the Association for Computational Linguistics: EMNLP 2023 (**Findings of EMNLP 2023**)

## **Dialogizer: Context-aware Conversational-QA Dataset Generation from Textual Sources**

YERIN HWANG\*, YONGIL KIM\*, HYUNKYUNG BAE, HWANHEE LEE†, JEESOO BANG, KYOMIN JUNG†

- The 2023 Conference on Empirical Methods in Natural Language Processing (**EMNLP 2023**)

## **Critic-Guided Decoding for Controlled Text Generation**

MINBEOM KIM, HWANHEE LEE, KANG MIN YOO, JOONSUK PARK, HWARAN LEE, KYOMIN JUNG

- Findings of the Association for Computational Linguistics: ACL 2023 (**Findings of ACL 2023**)

## **Task-specific Compression for Multi-task Language Models using Attribution-based Pruning**

NAKYEONG YANG, YUNAH JANG, HWANHEE LEE, SEOHYEONG JUNG, AND KYOMIN JUNG

- Findings of the Association for Computational Linguistics: EACL 2023 (**Findings of EACL 2023**)

## **Masked Summarization to Generate Factually Inconsistent Summaries for Improved Factual Consistency Checking**

HWANHEE LEE, KANG MIN YOO, JOONSUK PARK, HWARAN LEE, AND KYOMIN JUNG

- Findings of the Association for Computational Linguistics: NAACL 2022 (**Findings of NAACL 2022**)

## **QACE: Asking Questions to Evaluate an Image Caption**

HWANHEE LEE, THOMAS SCIALOM, SEUNGHYUN YOON, FRANK DERNONCOURT, AND KYOMIN JUNG

- Findings of the Association for Computational Linguistics: EMNLP 2021 (**Findings of EMNLP 2021**)

## **CrossAug: A Contrastive Data Augmentation Method for Debiasing Fact Verification Models**

MINWOO LEE, SEUNGIL WON, JUAE KIM, HWANHEE LEE, CHEONUM PARK, AND KYOMIN JUNG

- 30th ACM International Conference on Information and Knowledge Management (**CIKM 2021**)

## **UMIC: An Unreferenced Metric for Image Captioning via Contrastive Learning**

HWANHEE LEE, SEUNGHYUN YOON, FRANK DERNONCOURT, TRUNG BUI, AND KYOMIN JUNG

- The Joint Conference of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing (**ACL 2021**)

## **Entangled Bidirectional Encoder to Autoregressive Decoder for Sequential Recommendation**

TAEGWAN KANG, HWANHEE LEE, BYEONGJIN CHOE, AND KYOMIN JUNG

- The 44th International ACM SIGIR Conference on Research and Development in Information Retrieval (**SIGIR 2021**)

## **KPQA: A Metric for Generative Question Answering Using Keyphrase Weights**

HWANHEE LEE, SEUNGHYUN YOON, FRANK DERNONCOURT, DOO SOON KIM, TRUNG BUI, JOONGBO SHIN, AND KYOMIN JUNG

- 2021 Annual Conference of the North American Chapter of the Association for Computational Linguistics (**NAACL 2021**)

## **Attentive Modality Hopping Mechanism for Speech Emotion Recognition**

SEUNGHYUN YOON, SUBHADEEP DEY, HWANHEE LEE, AND KYOMIN JUNG

- IEEE International Conference on Acoustics, Speech and Signal Processing (**ICASSP 2020**)

## **Improving Neural Question Generation Using Answer Separation**

YANGHOON KIM, HWANHEE LEE, JOONBO SHIN, AND KYOMIN JUNG

- Thirty-Third AAAI Conference on Artificial Intelligence (**AAAI 2019**)

## International Journal

### **MultiLexNorm++: Lexical Normalization Beyond Indo-European Languages**

WEERAYUT BUAPHET, THANH-NHI NGUYEN, RISA KONDO, TOMOYUKI KAJIWARA, YUMIN KIM, JIMIN LEE, HWANHEE LEE, HOLY LOVENIA, PEERAT LIMKONCHOTIWAT, SARANA NUTANONG, ROB VAN DER GOOT

- ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP)

### **Crafting the Path: Robust Query Rewriting for Information Retrieval**

INGEOL BAEK, JIMIN LEE, JOONHO YANG, HWANHEE LEE†

- IEEE Access, 2025

### **Cross-Lingual Summarization for Low-Resource Languages using Multilingual Retrieval-Based In-Context Learning**

GYETA PARK, JEONGHYUN PARK, HWANHEE LEE†

- Applied Sciences, 2025

### **REMDoC: Reference-free Evaluation for Medical Document Summaries via Contrastive Learning**

JIMIN LEE, INGEOL BAEK, HWANHEE LEE†

- IEEE Access, 2024

### **Improving Abstractive Dialogue Summarization Using Keyword Extraction**

CHONGJAE YOO AND HWANHEE LEE†

- Applied Sciences, 2023

### **Gated Relational Target-aware Encoder and Local Context-aware Decoder for Target-oriented Opinion Words Extraction**

TAEGWAN KANG, SEGWANG KIM, HYEONGU YUN, HWANHEE LEE, AND KYOMIN JUNG

- IEEE Access, 2022

## Preprint/Under Review

### **Doc-PP: Document Policy Preservation Benchmark for Large Vision-Language Models**

HAEUN JANG\*, HWAN CHANG\*, HWANHEE LEE†

- arXiv (2601.03926)

### **Fame Fades, Nature Remains: Disentangling the Character Identity of Role-Playing Agents**

YONGHYUN JUN\*, HWAN CHANG\*, JIHYEONG PARK, HWANHEE LEE†

- arXiv (2601.04176)

### **Enhancing Multilingual RAG Systems with Debiased Language Preference-Guided Query Fusion**

JEONGHYUN PARK, BYEONGJEONG KIM, SEOJIN HWANG, HWANHEE LEE†

- arXiv (2601.02956)

### **MARCH: Evaluating the Intersection of Ambiguity Interpretation and Multi-hop Inference**

JEONGHYUN PARK\*, INGEOL BAEK\*, SEUNGHYUN YOON, HAEUN JANG, APARNA GARIMELLA, AKRITI JAIN, NEDIM LIPKA, HWANHEE LEE†

- arXiv (2509.22750)

### **Chronological Passage Assembling in RAG framework for Narrative Text**

BYEONGJEONG KIM, JEONGHYUN PARK, JOONHO YANG, HWANHEE LEE†

- arXiv (2508.18748)

## **Hallucinate at the Last in Long Response Generation: A Case Study on Long Document Summarization**

JOONHO YANG, SEUNGHYUN YOON, HWAN CHANG, BYEONGJEONG KIM, HWANHEE LEE†

- arXiv (2505.15291)

## **Selective Demonstration Retrieval for Improved Implicit Hate Speech Detection**

YUMIN KIM, HWANHEE LEE†

- arXiv (2504.12082)

## **Leveraging Fine-grained Error Correction in Korean Speech Recognition for Consultation Services**

YONGHYUN JUN, JIMIN LEE, HWAN CHANG, DONGHO SHIN, SEOLAH KIM, HWANHEE LEE†

- Under Review

## **Conversational Query Reformulation with the Guidance of Retrieved Documents**

JEONGHYUN PARK, HWANHEE LEE†

- Under Review - arXiv (2407.12363)

## Workshop Papers & Other International Conferences

### **Logistic Regression-Based Example Selection for Enhanced Few-Shot Learning in Intent Classification**

GYUTAE PARK, HWANHEE LEE†

- IEEE International Conference on Consumer Electronics (IEEE ICCE 2025)

### **Dynamically Managing a Prompt Pool via Self-Enhancement in Continual Learning**

HAYUN LEE, KISEONG HONG, HWANHEE LEE, SUNGHO SUH, EUNWOO KIM

- NeurIPS 2024 Workshop on Adaptive Foundation Models (NeurIPS-W 2024)

### **Low-Resource Cross-Lingual Summarization through Few-Shot Learning with Large Language Models**

GYUTAE PARK, SEOJIN HWANG, HWANHEE LEE†

- ACL Workshop on Technologies for Machine Translation of Low-Resource Languages (ACL-W 2024)

### **Factual Error Correction for Abstractive Summaries Using Entity Retrieval**

HWANHEE LEE, CHEONEUM PARK, SEUNGHYUN YOON, TRUNG BUI, FRANCK DERNONCOURT, JUAE KIM AND KYOMIN JUNG

- EMNLP Workshop on Generation, Evaluation & Metrics (EMNLP-W 2022)

### **Improving Multiple Documents Grounded Goal-Oriented Dialog Systems via Diverse Knowledge Enhanced Pre-trained Language Model**

YUNAH JANG, DONGRYEOL LEE, HYUNG JOO PARK, TAEGWAN KANG, HWANHEE LEE, HYUNKYUNG BAE, AND KYOMIN JUNG

- ACL Workshop on Document-grounded Dialogue and Conversational Question Answering (ACL-W 2022)

### **Learning to Select Question-Relevant Relations for Visual Question Answering**

JAEOONG LEE, HEEJOON LEE, HWANHEE LEE, AND KYOMIN JUNG

- NAACL Workshop on Multimodal Artificial Intelligence Workshop (NAACL-W 2021)

### **Relevance Similarity Scorer and Entity Guided Reranking for Knowledge Grounded Dialog System**

HYUNKYUNG BAE, MINWOO LEE, AHHYEON KIM, AND HWANHEE LEE, CHEONGJAE LEE, CHEONUM PARK, DONGHYEON KIM, AND KYOMIN JUNG

- AAAI Workshop on Dialog System Technology Challenge (AAAI-W 2021)

### **ViLBERTScore: Evaluating Image Caption Using Vision-and-Language BERT**

HWANHEE LEE, SEUNGHYUN YOON, FRANK DERNONCOURT, DOO SOON KIM, TRUNG BUI, AND KYOMIN JUNG

- EMNLP Workshop on Evaluation and Comparison of NLP Systems (EMNLP-W 2020)

### **Multimodal Semantic Transformer Network with Retrieval Style Word Generator**

HWANHEE LEE, SEUNGHYUN YOON, FRANK DERNONCOURT, DOO SOON KIM, TRUNG BUI, AND KYOMIN JUNG

- AAAI Workshop on Dialog System Technology Challenge (AAAI-W 2020)

### **Attention-based Convolutional Neural Networks for Multi-label Emotion Classification**

YANGHOON KIM, HWANHEE LEE, AND KYOMIN JUNG

- NAACL Workshop on Semantic Evaluation 2018 (NAACL-W 2018)

## Research Projects

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### Plug-in External-Memory Models for Augmenting Knowledge of Large Language Models

FUNDED BY THE NATIONAL RESEARCH FOUNDATION OF KOREA, PI

Sep. 2025 - Aug. 2026

- Research on Next-generation RAG via Plug-in External Memory

### Next-Generation O2O Fashion Retail System: Enhancing Sales Through Integration of Personal Shoppers and Immersive Virtual Fitting

FUNDED BY THE MINISTRY OF TRADE, INDUSTRY AND ENERGY, Co-PI

July. 2025 - Dec. 2028

- Developing Conversational Fashion AI Agent

### Development of an LLM System for Financial Transactions

FUNDED BY SEOUL BUSINESS AGENCY, Co-PI

Sep. 2025 - Aug. 2026

- Developing Transaction Classification System with RAG

### LLM based Claim Report Generation

FUNDED BY DOOSAN ENERBILITY, PI

Jun. 2025 - May. 2026

- Claim Report Generation with Agentic RAG System

### Development of a LLM System for Financial Transaction Categorization to Enhance Risk and Customer Management in Financial Institutions

FUNDED BY THE MINISTRY OF SMEs AND STARTUPS, CO-PI

May. 2025 - Dec. 2025

- Developing Transaction Classification System with RAG

### Risk Assessment of Construction Site based on LLMs

FUNDED BY DOOSAN ENERBILITY, PI

Jun. 2024 - May. 2025

- Risk Assessment and Prediction with Large Language Models

### Improvement of Speech Recognition Rate Using LLMs

FUNDED BY SEOUL 120 DASAN CALL FOUNDATION, PI

April. 2024 - Dec. 2024

- Detecting Errors of ASR System for Dialogue Data with Large Language Models

### RAG based Conversational Question Answering System

FUNDED BY URP, Co-PI

Mar. 2024 - Dec. 2024

- Developing ConvQA System for Real Estate Domain

### Anomaly Detection in Fuel Cell

FUNDED BY DOOSAN FUEL CELL, PI

June. 2023 - May. 2024

- Developing Anomaly Detection System for Full Cell

### Factual Error Correction on Grounded Text Generation Systems

FUNDED BY ADOBE RESEARCH (RESEARCH GIFTS, 2023-2024)

May. 2023 - Current

- Developed Factual Error Detection and Correction System for Abstractive Summarization Systems
- Published a Paper at EMNLP 2024

## Academic Services

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### Organizing Committee

IJCNLP-AAACL 2023 (DIVERSITY & INCLUSION CHAIR)

### Area Chair

ACL 2024-2026, EMNLP 2024-2025, NAACL 2024-2025, COLING 2025

### Reviewer

ACL 2021-2023, EMNLP 2020-2023, COLING 2022-2024, AAAI 2021-2026, NEURIPS 2023-2025, ICLR 2026, ICML 2026

## Advisor

SOFTWARE POLICY & RESEARCH INSTITUTE

- Technical Advising on Hyperscale Language Models

Aug. 2022 - Mar. 2023

## Selected Invited Talks

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### Sungkyunkwan University

BUILDING SECURE AND FAITHFUL LLM AGENTS

Suwon, Korea

Jan. 2026

### Ulsan National Institute of Science and Technology

BUILDING FAITHFUL AND SECURE LANGUAGE MODELS

Ulsan, Korea

Oct. 2025

### Korea Computer Congress 2025

FAITHFULNESS IN LANGUAGE MODELS

Jeju, Korea

July. 2025

### Korea Advanced Institute of Science & Technology

COGNITIVE AND REASONING CAPABILITIES OF HYPERSCALE AI (NEXTGENAI-X WORKSHOP)

Daejeon, Korea

Mar. 2025

### Adobe Research

TOWARD TRUTHFUL AND SAFE LANGUAGE MODELS

San Jose, CA, USA

Jan. 2025

### The 36th Annual Conference on Human & Cognitive Language Technology

TOWARD TRUTHFUL AND SAFE LANGUAGE MODELS

Seongnam, Korea

Oct. 2024

### Hanyang University

HALLUCINATION OF LARGE LANGUAGE MODELS

Seoul, Korea

March. 2024

### Korea Institute of Science and Technology Information

RECENT RESEARCH ON FACTUAL CONSISTENCY AND APPLICATIONS TO THE SCIENTIFIC DOMAIN

Daejeon, Korea

January. 2024

### Korea Advanced Institute of Science & Technology

RESEARCH ON TEXT GENERATION SYSTEMS

Daejeon, Korea

Oct. 2023

### Korea Electronics Technology Institute

LARGE LANGUAGE MODELS CHATGPT: HOW IT WORKS AND HOW TO USE

Seongnam, Korea

July. 2023

### Eötvös Loránd University

RESEARCH ON TEXT GENERATION SYSTEMS

Budapest, Hungary

July. 2023

### Chung-Ang University

LARGE LANGUAGE MODELS CHATGPT: HOW IT WORKS AND HOW TO USE

Seoul, Korea

April. 2023

### LG AI Research

FACTUAL CONSISTENCY OF TEXT GENERATION SYSTEMS

Seoul, Korea

Jan. 2023

### BrainLink 2022

FACTUAL CONSISTENCY OF TEXT GENERATION SYSTEMS

Incheon, Korea

Oct. 2022

### Korea Electronics Technology Institute

FACTUAL CONSISTENCY OF TEXT GENERATION SYSTEMS

Seongnam, Korea

Aug. 2022

## Teaching Experiences

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### Natural Language Processing

LECTURER

Chung-Ang University

Spring 2026

### Advanced Natural Language Processing: Large Language Models

LECTURER

Chung-Ang University

Spring 2023-2026

### Objected Oriented Programming

LECTURER

Chung-Ang University

Spring 2024-2025

**Embedded Artificial Intelligence**

LECTURER

*Chung-Ang University**Fall 2023-2025***Artificial Intelligence Design**

LECTURER

*Chung-Ang University**Fall 2023-2025***Probability and Random Process**

LECTURER

*Chung-Ang University**Spring 2023*