

Chanjun Park

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RESEARCH INTERESTS

My research philosophy is centered on service-driven research, aiming to bridge the gap between foundational theories in natural language processing (NLP) and their practical, real-world applications. My primary interests include the development of efficient, purpose-trained Large Language Models (LLMs), with a particular focus on their fundamental capabilities, rigorous evaluation, and addressing issues of recency and truthfulness. Additionally, I am deeply engaged in cross-lingual NLP and multidisciplinary research that integrates diverse fields to enhance NLP applications.

EDUCATION

- **Korea University** Sep. 2019 - Aug. 2023
Ph.D. in Computer Science and Engineering (advisor: Heuiseok Lim)
Dissertation: Data-Centric Neural Machine Translation - A Real-World Approaches
- **Busan University of Foreign Studies (BUFS)** Mar. 2015 - Feb. 2019
B.S. in Natural Language Processing & Creative Convergence (advisor: Pum-mo Ryu)

WORK EXPERIENCES

- **Upstage** Mar. 2022 - Present
Principal Research Engineer, Technical Leader (July. 2023 - Present)
AI Research Engineer (July. 2022 - July.2023)
AI Research Engineer Intern (Mar. 2022 - July.2022)
- **SYSTRAN** June. 2018 - July. 2019
Research Engineer (Sep. 2018 - July. 2019)
Research Engineer Intern (June. 2018 - Aug. 2018)

PUBLICATIONS

Equal contribution: *, Corresponding author: †

1. **Open Ko-LLM Leaderboard: Evaluating Large Language Models in Korean with Ko-H5 Benchmark**
Chanjun Park, Hyeonwoo Kim, Dahyun Kim, SeongHwan Cho, Sanghoon Kim, Sukyung Lee, Yungi Kim, Hwalsuk Lee
ACL 2024
2. **KoCommonGEN v2: A Benchmark for Navigating Korean Commonsense Reasoning Challenges in Large Language Models**
Jaehyung Seo, Jaewook Lee, Chanjun Park, SeongTae Hong, Seungjun Lee, Heuiseok Lim
ACL 2024-Findings
3. **Length-aware Byte Pair Encoding for Mitigating Over-segmentation in Korean Machine Translation**
Jungseob Lee, Hyeonseok Moon, Seungjun Lee, Chanjun Park[†], Sugyeong Eo, Hyunwoong Ko, Jaehyung Seo, Seungyoon Lee, Heuiseok Lim[†]
ACL 2024-Findings
4. **SOLAR 10.7B: Scaling Large Language Models with Simple yet Effective Depth Up-Scaling**
Sanghoon Kim^{*, †}, Dahyun Kim^{*}, Chanjun Park^{*, †}, Wonsung Lee^{*, †}, Wonho Song^{*}, Yunsu Kim^{*}, Hyeonwoo Kim^{*}, Yungi Kim, Hyeonju Lee, Jihoo Kim, Changbae Ahn, Seonghoon Yang, Sukyung Lee, Hyunbyung Park, Gyoungjin Gim, Mikyoung Cha, Hwalsuk Lee[†], Sunghun Kim[†]
NAACL 2024 - Industry Track

5. **Exploring Inherent Biases in LLMs within Korean Social Context: A Comparative Analysis of ChatGPT and GPT-4**
Seungyoon Lee, Dongjun Kim, Dahyun Jung, Chanjun Park[†], Heuseok Lim[†]
NAACL 2024 - Student Research Workshop
6. **Explainable CED: A Dataset for Explainable Critical Error Detection in Machine Translation**
Dahyun Jung, Sugyeong Eo, Chanjun Park[†], Heuseok Lim[†]
NAACL 2024 - Student Research Workshop
7. **Leveraging Pre-existing Resources for Data-Efficient Counter-Narrative Generation in Korean**
Seungyoon Lee, Chanjun Park[†], DaHyun Jung, Hyeonseok Moon, Jaehyung Seo, Sugyeong Eo, Heuseok Lim[†]
LREC-COLING 2024, Oral
8. **Detecting Critical Errors Considering Cross-Cultural Factors in English-Korean Translation**
Sugyeong Eo, Jungwoo Lim, Chanjun Park, Hyeonseok Moon, Jaehyung Seo, Heuseok Lim
LREC-COLING 2024, Oral
9. **Hyper-BTS Dataset: Scalability and Enhanced Analysis of Back TranScripton (BTS) for ASR Post-Processing**
Chanjun Park, Jaehyung Seo, Seolhwa Lee, Junyoung Son, Hyeonseok Moon, Sugyeong Eo, Chanhee Lee, Heuseok Lim
EACL 2024-Findings
10. **Generative Interpretation: Toward Human-Like Evaluation for Educational Question-Answer Pair Generation**
Hyeonseok Moon, Jaewook Lee, Sugyeong Eo, Chanjun Park, Jaehyung Seo, Heuseok Lim
EACL 2024-Findings
11. **Model-Based Data-Centric AI: Bridging the Divide Between Academic Ideals and Industrial Pragmatism**
Chanjun Park^{*, †}, Minsoo Khang^{*}, Dahyun Kim^{*}
ICLR 2024 - Data-centric Machine Learning Research (DMLR) Workshop
12. **KEBAP: Korean Error Explainable Benchmark Dataset for ASR and Post-processing**
Seonmin Koo^{*}, Chanjun Park^{*}, Jinsung Kim, Jaehyung Seo, Sugyeong Eo, Hyeonseok Moon, Heuseok Lim
EMNLP 2023
13. **CHEF in the Language Kitchen: A Generative Data Augmentation Leveraging Korean Morpheme Ingredients**
Jaehyung Seo, Hyeonseok Moon, Jaewook Lee, Sugyeong Eo, Chanjun Park, Heuseok Lim
EMNLP 2023
14. **Proceedings of the Seventh Widening NLP Workshop (WiNLP 2023)**
Bonaventure F. P. Dossou, Isidora Tourni, Hatem Haddad, Shaily Bhatt, Fatemehsadat Mireshghallah, Sunipa Dev, Tanvi Anand, Weijia Xu, Atnafu Lambebo Tonja, Alfredo Gomez, Chanjun Park
EMNLP 2023-Widening NLP Workshop
15. **Alternative Speech: Complementary Method to Counter-Narrative for Better Discourse**
Seungyoon Lee^{*}, DaHyun Jung^{*}, Chanjun Park^{*}, Seolhwa Lee, Heuseok Lim
ICDM 2023 - The First Workshop on Data-Centric AI
16. **Synthetic Alone: Exploring the Dark Side of Synthetic Data for Grammatical Error Correction**
Chanjun Park^{*}, Seonmin Koo^{*}, Seolhwa Lee, Jaehyung Seo, Sugyeong Eo, Hyeonseok Moon, Heuseok Lim
ICML 2023 - Data-centric Machine Learning Research (DMLR) Workshop
17. **DMOps: Data Management Operation and Recipes**
Eujeong Choi, Chanjun Park^{*, †}
ICML 2023 - Data-centric Machine Learning Research (DMLR) Workshop
18. **Inter-Annotator Agreement in the Wild: Uncovering Its Emerging Roles and Considerations in Real-World Scenarios**
NamHyeok Kim, Chanjun Park^{*, †}
ICML 2023 - Data-centric Machine Learning Research (DMLR) Workshop
19. **Transcending Traditional Boundaries: Leveraging Inter-Annotator Agreement (IAA) for Enhancing Data Management Operations**
Damrin Kim, NamHyeok Kim, Chanjun Park[†], Harksoo Kim[†]
ICML 2023 - Data-centric Machine Learning Research (DMLR) Workshop

20. **Data-Driven Approach for Formality-Sensitive Machine Translation: Language-Specific Handling and Synthetic Data Generation**
Seugnjun Lee, Hyeonseok Moon, Chanjun Park, Heuiseok Lim
ICML 2023 - Data-centric Machine Learning Research (DMLR) Workshop
21. **Toward Practical Automatic Speech Recognition and Post-Processing: a Call for Explainable Error Benchmark Guideline**
Seonmin Koo*, Chanjun Park*, Jinsung Kim, Jaehyung Seo, Sugyeong Eo, Hyeonseok Moon, Heuiseok Lim
ICML 2023 - Data-centric Machine Learning Research (DMLR) Workshop
22. **Knowledge Graph-Augmented Korean Generative Commonsense Reasoning**
Dahyun Jung, Jaehyung Seo, Jaewook Lee, Chanjun Park, Heuiseok Lim
ICML 2023 - Data-centric Machine Learning Research (DMLR) Workshop
23. **Informative Evidence-guided Prompt-based Fine-tuning for English-Korean Critical Error Detection**
DaHyun Jung, Sugyeong Eo, Chanjun Park, Hyeonseok Moon, Jaehyung Seo, Heuiseok Lim
IJCNLP-AACL 2023
24. **Improving Formality-Sensitive Machine Translation using Data-Centric Approaches and Prompt Engineering**
Seugnjun Lee, Hyeonseok Moon, Chanjun Park, Heuiseok Lim
IWSLT 2023
25. **PEEP-Talk: A Situational Dialogue-based Chatbot for English Education**
Seugnjun Lee, Yoonna Jang, Chanjun Park, Jungseob Lee, Jaehyung Seo, Hyeonseok Moon, Sugyeong Eo, Seounghoon Lee, Bernardo Nugroho Yahya, Heuiseok Lim
ACL 2023 - Demo Track
26. **PicTalky: Augmentative and Alternative Communication for Language Developmental Disabilities**
Chanjun Park*, Yoonna Jang*, Seolhwa Lee*, Jaehyung Seo*, Kisu Yang, Heuiseok Lim
AACL-IJCNLP 2022 - Demo Track
27. **KU X Upstage’s submission for the WMT22 Quality Estimation: Critical Error Detection Shared Task**
Sugyeong Eo, Chanjun Park, Hyeonseok Moon, Jaehyung Seo, Heuiseok Lim
WMT 2022
28. **QUAK: A Synthetic Quality Estimation Dataset for Korean-English Neural Machine Translation**
Sugyeong Eo, Chanjun Park, Hyeonseok Moon, Jaehyung Seo, Gyeongmin Kim, Jungseob Lee, Heuiseok Lim
COLING 2022
29. **Focus on FoCUS: Is FoCUS focused on Context, Knowledge and Persona?**
SeungYoon Lee, Jungseob Lee, Chanjun Park, Sugyeong Eo, Hyeonseok Moon, Jaehyung Seo, Jeongbae Park, Heuiseok Lim
COLING 2022 - The 1st Workshop on Customized Chat Grounding Persona and Knowledge
30. **A Dog Is Passing Over The Jet? A Text-Generation Dataset for Korean Commonsense Reasoning and Evaluation**
Jaehyung Seo, Seounghoon Lee, Chanjun Park, Yoonna Jang, Hyeonseok Moon, Sugyeong Eo, Seonmin Koo, Heuiseok Lim
NAACL 2022-Findings
31. **Priming Ancient Korean Neural Machine Translation**
Chanjun Park*, Seolhwa Lee*, Hyeonseok Moon, Sugyeong Eo, Jaehyung Seo, Heuiseok Lim
LREC 2022, Oral
32. **FreeTalky: Don’t Be Afraid! Conversations Made Easier by a Humanoid Robot using Persona-based Dialogue**
Chanjun Park*, Yoonna Jang*, Seolhwa Lee*, Sungjin Park*, Heuiseok Lim
LREC 2022
33. **Empirical Analysis of Synthetic Data Generation Using Noising Strategies for Automatic Post-editing**
Hyeonseok Moon, Chanjun Park, Seolhwa Lee, Jaehyung Seo, Jeongsub Lee, Sugyeong Eo, Heuiseok Lim
LREC 2022

34. **A Self-Supervised Automatic Post-Editing Data Generation Tool**
Hyeonseok Moon, Chanjun Park, Sugyeong Eo, Jaehyung Seo, Seungjun Lee, Heuiseok Lim
ICML 2022 - DataPerf Workshop
35. **FreeTalky: Don't Be Afraid! Conversations Made Easier by a Humanoid Robot using Persona-based Dialogue**
Chanjun Park*, Yoonna Jang*, Seolhwa Lee*, Sungjin Park*, Heuiseok Lim
AAAI 2022 - Artificial Intelligence for Education (AI4EDU)
36. **How should human translation coexist with NMT? Efficient tool for building high quality parallel corpus**
Chanjun Park, Seolhwa Lee, Hyeonseok Moon, Sugyeong Eo, Jaehyung Seo, Heuiseok Lim
NeurIPS 2021 - Data-centric AI (DCAI) workshop
37. **A New Tool for Efficiently Generating Quality Estimation Datasets**
Sugyeong Eo, Chanjun Park, Jaehyung Seo, Hyeonseok Moon, Heuiseok Lim
NeurIPS 2021 - Data-centric AI (DCAI) workshop
38. **Automatic Knowledge Augmentation for Generative Commonsense Reasoning**
Jaehyung Seo, Chanjun Park, Sugyeong Eo, Hyeonseok Moon, Heuiseok Lim
NeurIPS 2021 - Data-centric AI (DCAI) workshop
39. **Syntax-enhanced Dialogue Summarization using Syntax-aware information**
Seolhwa Lee, Kisu Yang, Chanjun Park, João Sedoc, Heuiseok Lim
NeurIPS 2021 - Women in Machine Learning workshop, Oral
40. **Towards Syntax-Aware Dialogue Summarization using Multi-task Learning**
Seolhwa Lee, Kisu Yang, Chanjun Park, João Sedoc, Heuiseok Lim
EMNLP 2021 - Widening NLP (WiNLP2021) workshop
41. **Two Heads are Better than One? Verification of Ensemble Effect in Neural Machine Translation**
Chanjun Park, Sungjin Park, Seolhwa Lee, Taesun Whang, Heuiseok Lim
EMNLP 2021 - The Second Workshop on Insights from Negative Results in NLP, Oral
42. **BTS: Back TranScription for Speech-to-Text Post-Processor using Text-to-Speech-to-Text**
Chanjun Park, Jaehyung Seo, Seolhwa Lee, Chanhee Lee, Hyeonseok Moon, Sugyeong Eo, Heuiseok Lim
ACL 2021 - Workshop on Asian Translation (WAT), Oral
43. **Dealing with the Paradox of Quality Estimation**
Sugyeong Eo*, Chanjun Park*, Jaehyung Seo, Hyeonseok Moon, Heuiseok Lim
MT Summit 2021 - Workshop on Technologies for Machine Translation of Low-Resource Languages (LoResMT)
44. **Should we find another model?: Improving Neural Machine Translation Performance with ONE-Piece Tokenization Method without Model Modification**
Chanjun Park*, Sugyeong Eo*, Hyeonseok Moon*, Heuiseok Lim
NAACL-HLT 2021 - Industry Track, Oral

In addition, I have published 31 papers in international journals (SCI/SCIE), 21 papers in domestic journals (KCI), 57 papers in domestic conferences, and 34 papers in other international conferences.

Academic Services

Program Chair

- Widening NLP (WiNLP) Workshop (EMNLP 2023, EMNLP 2024)

Publication Chair

- ICLR 2024-Data-centric Machine Learning Research (DMLR) 2024

Virtual Social Chair

- COLING 2022

Program Committee

- Reviewer of ACL Rolling Review (ACL, EMNLP, NAACL, EACL etc.)
- EMNLP 2024-Industry Track, NeurIPS 2024 Track Datasets and Benchmarks, ACL 2024-ML4AL, NAACL 2024-NLP+CSS, NAACL 2024-Insights, NAACL 2024-BEA, ICLR 2024 Workshop Proposal Reviewing, ICML 2023-Data-centric Machine Learning Research (DMLR), ACL 2023-Industry Track, ACL 2023-BEA, ACL 2022-Insights, NAACL 2022-Industry Track

Journal Reviewer

- ETRI Journal, IEEE Access, International Journal of Human-Computer Interaction, Cybernetics and Systems

AWARDS/FELLOWSHIPS

Awards

- Forbes 30 Under 30 Korea (2024)
- Best Paper Award at The 35th Annual Conference on Human & Cognitive Language Technology - Language Model 2 Section (2023)
- Best Paper Award at The 35th Annual Conference on Human & Cognitive Language Technology - Data Bias & Ethics Section (2023)
- Best Paper Award at Korea University (2023)
- 1st Place at WMT Quality Estimation Shared Task 2022 - Sentence-level Critical Error Detection (2022)
- Best Paper Award at The 34th Annual Conference on Human & Cognitive Language Technology (2022)
- Best Paper Award at The 33rd Annual Conference on Human & Cognitive Language Technology - NLP Application 2 Section (2021)
- Best Paper Award at The 33rd Annual Conference on Human & Cognitive Language Technology - Language Resource Section (2021)
- Best Paper Award at The 33rd Annual Conference on Human & Cognitive Language Technology - QA and Speech Section (2021)
- 1st Place at Flitto Hackathon (2020)
- Best Paper Award at The 32nd Annual Conference on Human & Cognitive Language Technology (2020)
- 1st Place at Microsoft AI Accessibility Hackathon in Korea (2019)
- Participation Award at Next Generation Information Processing NLP Competition (2018)
- Bit Computer Excellence Award (President Award) at Bit Computer (2017)

Fellowships

- Research Encouragement Scholarship by Korea University (2023)
- Naver Ph.D. Fellowship (2021)
- Graduate School Associate Scholarship by Sungkyunkwan University (2019)
- Scholarship for academic excellence by Sooyoungro Church (2017)
- Scholarship for academic excellence by Sooyoungro Church (2016)
- Undergraduate Study Full Scholarship by Busan University of Foreign Studies (2015-2019)

PATENTS

International Patents

- **Method for generating training data and method for post-processing of speech recognition using the same**
Apply for a patent (17/739,383)
- **Method of building training data of machine translation**
Apply for a patent (PCT/KR2021/012195)

Domestic Patents

- **Device and method for generating of training data for quality estimation in machine translation**
Granted Patent (10-2593447)
- **Apparatus for corpus processing, apparatus and method and machine translation**
Granted Patent (10-2574167)
- **Device and method for generating training data for automatic post editing**
Apply for a patent (10-2021-0118924)
- **Device and method for generating optimal translation subtitle using quality estimation**
Apply for a patent (10-2021-0117011)

- **Improving speech recognition performance using TTS in domain-specific environment**
Apply for a patent (10-2021-0028816)
- **Method for generating training data and method for post-processing of speech recognition using the same**
Granted Patent (10-2557810)
- **Method of building training data of machine translation**
Granted Patent (10-2409667)
- **Correction performance evaluation metrics of neural network machine translation and method of constructing the same**
Granted Patent (10-2390154)
- **Apparatus and method for outputting image corresponding to language**
Granted Patent (10-2476497)
- **Method of translating ancient Korean using machine translation**
Granted Patent (10-2425922)
- **Device and method for correcting Korean spelling**
Granted Patent (10-2430918)

TEACHING

- **Pretraining LLMs**, Content Planning and Production, DeepLearning.AI. (2024-)
- **Language Model to Large Language Model (LM to LLM)**, Instructor, Fast Campus. (2023-)
- **Natural Language Processing (NLP) Basic**, Instructor, Fast Campus. (2023-)
- **Learning ChatGPT Utilization and Service Construction with AskUP**, Instructor, Fast Campus. (2023-)
- **Finance Specialized Large Language Model for Everyone**, Instructor, Upstage Online Course. (2023)
- **Data-Centric NLP**, Master (Instructor), BoostCamp - NAVER Connect Foundation. (2023-)
- **Introduction to Natural Language Processing in Big Data (BDC101)**, Teaching Assistant, Korea University (2021)
- **Introduction to Natural Language Processing in Big Data (BDC101)**, Head Teaching Assistant, Korea University (2020)
- **Natural Language Processing for Digital Finance Engineering (DFE610)**, Head Teaching Assistant, Korea University (2020)
- **Natural Language Processing (COSE461)**, Teaching Assistant, Korea University (2020)
- **Artificial Intelligence and Natural Language Processing (DFC615)**, Teaching Assistant, Korea University (2020)

TALKS

- **Sungkyunkwan University**, SOLAR: The Next Frontier in Large Language Models by Upstage and its Ecosystem, July 2024
- **TTA**, SOLAR: The Next Frontier in Large Language Models by Upstage and its Ecosystem, July 2024
- **KCC 2024**, SOLAR: The Next Frontier in Large Language Models by Upstage and its Ecosystem, June 2024
- **Kyungpook National University**, The Ecosystem of LLMs from a Real-World Perspective, June 2024
- **Konkuk University**, SOLAR: The Next Frontier in Large Language Models by Upstage and its Ecosystem, May 2024
- **Applied ML: LLMs and Knowledge Graphs- Tokyo**, The Ecosystem of LLMs from a Real-World Perspective, May 2024
- **Chungnam National University**, SOLAR: The Next Frontier in Large Language Models by Upstage and its Ecosystem, May 2024
- **AI Safety Compass Conference 2024**, Data and Evaluation Methods for Trustworthy AI, May 2024
- **Chonbuk National University**, SOLAR: The Next Frontier in Large Language Models by Upstage and its Ecosystem, May 2024
- **TTA**, LLM Evaluation and its Ecosystem, May 2024
- **ETRI**, SOLAR: The Next Frontier in Large Language Models by Upstage and its Ecosystem, May 2024

- **AI Tech 2024 - AI Frontier for AI Era**, SOLAR: The Next Frontier in Large Language Models by Upstage and its Ecosystem, May 2024
- **No code-Low code Hyper-automation Conference 2024**, The Ecosystem of LLMs from a Real-World Perspective, May 2024
- **Hallym University**, SOLAR: The Next Frontier in Large Language Models by Upstage and its Ecosystem, April 2024
- **Korean Society of Artificial Intelligence in Medicine**, Current state of Large-Scale Generative AI Development, April 2024
- **NIA**, Open Ko-LLM Leaderboard and its Ecosystem, April 2024
- **Korea University College of Medicine - Intelligent Medical Data Lab**, SOLAR: The Next Frontier in Large Language Models by Upstage, February 2024
- **Fast Campus**, Job Employment Special Lecture, February 2024
- **FuriosaAI**, SOLAR: The Next Frontier in Large Language Models by Upstage, February 2024
- **The University of Tokyo - Center for Data-Driven Discovery**, SOLAR: The Next Frontier in Large Language Models by Upstage, January 2024
- **Defense Agency for Technology and Quality (DTaQ)**, Current State of Artificial Intelligence (AI) and Its Application Strategies in the Defense Sector, January 2024
- **National Library of Korea**, Upstage LLM One Pager, January 2024
- **Ministry of Science and ICT - Data Utilization Council**, Upstage LLM One Pager, December 2023
- **Seoul Metropolitan Office of Education-AI & Digital Education Conference**, Reset Moment by Large Language Model, December 2023
- **Korean-English Joint Seminar on Artificial Intelligence (AI) Safety and Reliability**, Upstage Vision for Ethical and Trustworthy Large Language Models, December 2023
- **Digital Innovation Forum (Ministry of Culture, Sports and Tourism)**, Generative AI era: Copyright issues and countermeasures, November 2023
- **Kyungpook National University**, Upstage LLM One Pager, November 2023
- **Future Technology Exchange Conference in Southeast Region**, Upstage LLM One Pager, November 2023
- **Jeju National University - Guest lecture**, Upstage LLM One Pager, November 2023
- **Busan University of Foreign Studies**, From Language Model to Large Language Model, November 2023
- **KB Kookmin Bank**, Areas of Generative AI Application in Business, November 2023
- **Human-Inspired AI Research**, Upstage LLM One Pager, November 2023
- **NIA**, Upstage LLM and latest B2B LLM trends, October 2023
- **Woongjin Thinkbig**, Upstage LLM One Pager, September 2023
- **Kyobo Life Insurance**, Upstage and Private LLM, September 2023
- **HD Korea Shipbuilding & Offshore Engineering**, Upstage and Private LLM, September 2023
- **Korea University - Guest lecture**, From Language Model to Large Language Model, September 2023
- **HanYang University - Guest lecture**, From Language Model to Large Language Model, September 2023
- **Korea Institute of Patent Information**, Upstage LLM and latest B2B LLM trends, September 2023
- **AGI Town in Seoul**, The use case of solving customer problems using LLM, September 2023
- **Fast Campus**, Job Employment Special Lecture, September 2023
- **HD Korea Shipbuilding & Offshore Engineering**, Upstage LLM and latest B2B LLM trends, August 2023
- **Upstage Webinar**, The Future of Finance/Insurance Transformed by Generative AI, August 2023
- **Google I/O Extended 2023 Incheon**, From Language Model to Large Language Model, August 2023
- **POSCO RIST**, Data-Centric AI in Real-World, July 2023
- **Google I/O Extended 2023 Seoul**, From Language Model to Large Language Model, July 2023
- **TensorFlow Korea LLM Day**, Language Model to Large Language Model, July 2023
- **Jeju National University**, Real-World Artificial Intelligence and Large Language Model for Everyone, July 2023
- **AI EDucation Alliance Policy lab (AIEDAP)**, Deep Learning Understanding and Practice, June 2023

- **KIDA (Korea Institute for Defense Analysis)**, Data-Centric AI in the Large Language Model Era, May 2023
- **Upstage**, NLP based Large Language Model for All, April 2023
- **AI-DATA SUMMIT 2023**, Real-World Centric AI, February 2023
- **Sunmoon University**, Real-World Centric AI, December 2022
- **Kyungsung University**, Language and Information Studies and the Future of Artificial Intelligence, August 2022
- **Hankuk University of Foreign Studies**, Basic practice of natural language processing for everyone, July 2022
- **Dongguk University**, Artificial intelligence and Machine Translation, January 2022
- **Busan Social Welfare Development Group**, Attending advisory meetings and Focus Group Interview, July 2021
- **LLsoLLu**, Latest natural language processing Research, March 2020
- **NC SOFT**, Technology Transfer Seminar, February 2020
- **Dongguk University**, A.I - NLP - MT for Liberal Arts, January 2020
- **SKC**, Text Preprocessing, Machine Translation, Language Embedding, October-November 2019
- **SK T Academy**, Machine Translation for everyone, August 2019
- **NAVER**, Machine Translation for everyone, August 2019