# Chanjun Park

Principal Research Engineer, Upstage bcj1210@naver.com https://parkchanjun.github.io/

### 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

 $\frac{\text{Chanjun Park}}{\text{Hwalsuk Lee}}, \text{ Hyeonwoo Kim, Dahyun Kim, SeongHwan Cho, Sanghoon Kim, Sukyung Lee, Yungi Kim, Hwalsuk Lee}$ 

ACL 2024

Jaehyung Seo, Jaewook Lee, <u>Chanjun Park,</u> Seong<br/>Tae Hong, Seungjun Lee, Heuiseok Lim $ACL\ 2024\text{-}Findings$ 

3. Length-aware Byte Pair Encoding for Mitigating Over-segmentation in Korean Machine Translation

Jungseob Lee, Hyeonseok Moon, Seungjun Lee, <u>Chanjun Park</u> $^{\dagger}$ , Sugyeong Eo, Hyunwoong Ko, Jaehyung Seo, Seungyoon Lee, Heuiseok Lim $^{\dagger}$  ACL 2024-Findings

4. SOLAR 10.7B: Scaling Large Language Models with Simple yet Effective Depth Up-Scaling Sanghoon Kim\*, †, Dahyun Kim\*, <u>Chanjun Park</u>\*, †, 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 $^{\dagger},$  Heuiseok Lim $^{\dagger}$  NAACL 2024 - Student Research Workshop

 Explainable CED: A Dataset for Explainable Critical Error Detection in Machine Translation Dahyun Jung, Sugyeong Eo, Chanjun Park<sup>†</sup>, Heuiseok Lim<sup>†</sup> NAACL 2024 - Student Research Workshop

- 7. Leveraging Pre-existing Resources for Data-Efficient Counter-Narrative Generation in Korean Seungyoon Lee, Chanjun Park<sup>†</sup>, DaHyun Jung, Hyeonseok Moon, Jaehyung Seo, Sugyeong Eo, Heuiseok Lim<sup>†</sup> 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, Heuiseok Lim LREC-COLING 2024, Oral
- 9. Hyper-BTS Dataset: Scalability and Enhanced Analysis of Back TranScription (BTS) for ASR Post-Processing

 $\underline{\text{Chanjun Park}},$  Jaehyung Seo, Seolhwa Lee, Junyoung Son, Hyeonseok Moon, Sugyeong Eo, Chanhee Lee, Heuiseok Lim

EACL 2024-Findings

10. Generative Interpretation: Toward Human-Like Evaluation for Educational Question-Answer Pair Generation

Hyeonseok Moon, Jaewook Lee, Sugyeong Eo, <br/> Chanjun Park, Jaehyung Seo, Heuiseok LimEACL~2024-Findings

11. Model-Based Data-Centric AI: Bridging the Divide Between Academic Ideals and Industrial Pragmatism

- 12. **KEBAP: Korean Error Explainable Benchmark Dataset for ASR and Post-processing**Seonmin Koo\*, Chanjun Park\*, Jinsung Kim, Jaehyung Seo, Sugyeong Eo, Hyeonseok Moon, Heuiseok 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, <br/> Chanjun Park, Heuiseok LimEMNLP~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, <a href="https://example.com/chanjun-Park">Chanjun Park</a> EMNLP 2023-Widening NLP Workshop

- 15. Alternative Speech: Complementary Method to Counter-Narrative for Better Discourse Seungyoon Lee\*, DaHyun Jung\*, Chanjun Park\*, Seolhwa Lee, Heuiseok 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, Heuiseok Lim ICML 2023 Data-centric Machine Learning Research (DMLR) Workshop
- 17. DMOps: Data Management Operation and Recipes

Eujeong Choi, Chanjun Park<sup>\*, †</sup>

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, Nam Hyeok Kim, Chanjun Park $^{\dagger},$  Harksoo<br/> Kim $^{\dagger}$ 

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\*, <u>Chanjun Park</u>\*, 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

Da<br/>Hyun Jung, Sugyeong Eo, <u>Chanjun Park,</u> Hyeonseok Moon, Jaehyung Seo, Heu<br/>iseok Lim $IJCNLP\text{-}AACL\ 2023$ 

# 24. Improving Formality-Sensitive Machine Translation using Data-Centric Approaches and Prompt Engineering

Seugnjun Lee, Hyeonseok Moon, Chanjun Park, Heuiseok LimIWSLT~2023

#### 25. PEEP-Talk: A Situational Dialogue-based Chatbot for English Education

Seugnjun Lee, Yoonna Jang, <u>Chanjun Park</u>, 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

 $\underline{\text{Chanjun Park}}^*,$ Yoonna Jang $^*,$ Seolhwa Lee $^*,$ Jaehyung Seo $^*,$ Kisu Yang, Heuiseok Lim $\overline{AACL\text{-}IJCNL}P$ 2022 - DemoTrack

# 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 LimWMT2022

# 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, <u>Chanjun Park</u>, 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, <u>Chanjun Park</u>, 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 $\overline{LREC~2022,~Oral}$ 

# 32. FreeTalky: Don't Be Afraid! Conversations Made Easier by a Humanoid Robot using Personabased Dialogue

Chanjun Park $^*$ , Yoonna Jang $^*$ , Seolhwa Lee $^*$ , Sungjin Park $^*$ , Heuiseok Lim  $\overline{LREC~2022}$ 

## 33. Empirical Analysis of Synthetic Data Generation Using Noising Strategies for Automatic Postediting

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 Personabased Dialogue

 $\frac{\text{Chanjun Park}^*}{AAAI\ 2022}\text{-}Artificial\ Intelligence\ for\ Education\ (AI4EDU)}$ 

## 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 LimEMNLP~2021 -Widening  $\overline{NLP~(WiNLP2021)}~workshop$ 

# 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  $\overline{ACL\ 2021\ -W}$ orkshop 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 20 $\overline{21}$  - 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  $\overline{NAACL\text{-}HLT}$  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
- $\bullet~$  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
- Applied Sciences
- Electronics
- Entropy
- Connection Science

### 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)
- $\bullet$  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
- $\bullet$  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
- $\bullet~NIA,$  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