# Chanjun Park

Assistant Professor Soongsil University School of Software

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Home: https://parkchanjun.github.io/
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Lab: https://nlp.ssu.ac.kr/

## LIFELONG RESEARCH OBJECTIVE

My lifelong research objective is to foster seamless and inclusive communication across languages, enabling people around the world to understand and connect with one another without linguistic or cultural barriers. I aim to contribute to a world where language differences no longer hinder mutual understanding, but instead enrich global interaction.

### 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 real-world applications. My primary interests include the development of efficient, purpose-trained Large Language Models (LLMs), with a focus on exploring their capability landscape across parameter regions and understanding how model scale and architecture shape emergent behaviors. I am also actively investigating how real-world phenomena can be systematically represented as text to enhance reasoning capabilities in LLMs. In addition, I am deeply engaged in cross-lingual NLP and multidisciplinary research that integrates insights from diverse domains to broaden the scope and impact of NLP technologies.

# **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 GPA: 4.44/4.5

• Busan University of Foreign Studies (BUFS)

Mar. 2015 - Feb. 2019

B.S. in Natural Language Processing & Creative Convergence (advisor: Pum-mo Ryu) GPA:  $4.12/4.5\,$ 

### WORK EXPERIENCES

• Soongsil University

Sep. 2025 - Now

Assistant Professor School of Software

• Korea University

Dec. 2024 - Aug.2025

Mar. 2022 - Nov.2024

Research Professor

• Upstage
Tackwirel Leader & Principal Research Engineer (July 2022 New 2024)

Technical Leader & Principal Research Engineer (July. 2023 - Nov.2024)

AI Research Engineer (July. 2022 - July. 2023)

AI Research Engineer Intern (Mar. 2022 - July. 2022)

• Korea University

July. 2019 - July. 2022

Graduate Research Assistant (advisor: Prof. Heuiseok Lim)

• SYSTRAN

June. 2018 - July. 2019

Research Engineer (Sep. 2018 - July. 2019) Research Engineer Intern (June. 2018 - Aug. 2018)

## **PUBLICATIONS**

Equal contribution: \*, Corresponding author: †

Google Scholar: https://scholar.google.com/citations?user=085jNAMAAAJ&hl=en Semantic Scholar: https://www.semanticscholar.org/author/Chanjun-Park/2115195904

Arxiv: https://arxiv.org/search/?query=Chanjun+Park&searchtype=author

#### Conferences

1. Mixture-of-Clustered-Experts: Advancing Expert Specialization and Generalization in Instruction Tuning

Sugyeong Eo, Jung Jun Lee, Chanjun Park $^{\dagger},$  Heuiseok  ${\rm Lim}^{\dagger}$  EMNLP~2025

2. Benchmark Profiling: Mechanistic Diagnosis of LLM Benchmarks

Dongjun Kim, Gyuho Shim, Yongchan Chun, Minhyuk Kim, Chanjun Park $^{\dagger}$ , Heuiseok Lim $^{\dagger}$  *EMNLP 2025* 

3. MultiDocFusion: Hierarchical and Multimodal Chunking Pipeline for Enhanced RAG on Long Industrial Documents

Joong Min Shin, Chanjun Park, Jeongbae Park, Jaehyung Seo $^{\dagger},$  Heuiseok Lim $^{\dagger}$  EMNLP~2025

4. HAWK: Highlighting Entity-aware Knowledge for Alleviating Information Sparsity in Long Contexts

Seonmin Koo, Jinsung Kim, Chanjun Park $^{\dagger},$  Heuiseok Lim $^{\dagger}$  EMNLP 2025-Findings

5. ZEBRA: Leveraging Model-Behavioral Knowledge for Zero-Annotation Preference Dataset Construction

Jeesu Jung, Chanjun Park $^{\dagger}$ , Sangkeun Jung $^{\dagger}$  EMNLP 2025-Findings

6. Can Code-Switched Texts Activate a Knowledge Switch in LLMs? A Case Study on English-Korean Code-Switching

Seoyeon Kim, Huiseo Kim, Chanjun Park, Jinyoung Yeo, Dongha Lee $^\dagger$  EMNLP~2025-Findings

7. LP Data Pipeline: Lightweight, Purpose-driven Data Pipeline for Large Language Models Yungi Kim, Hyunsoo Ha, Seonghoon Yang, Sukyung Lee, Jihoo Kim, Chanjun Park<sup>†</sup>

EMNLP 2025 - Industry

8. AGENTiGraph: A Multi-Agent Knowledge Graph Framework for Interactive, Domain-Specific LLM Chatbots

Xinjie Zhao, Moritz Blum, Fan Gao, Yingjian Chen, Boming Yang, Luis Marquez-Carpintero, Mónica Pina-Navarro, Yanran Fu, So Morikawa, Yusuke Iwasawa, Yutaka Matsuo, <u>Chanjun Park</u>, Irene Li CIKM 2025 - Demo

- 9. HealthGenie: An Interactive Knowledge-Driven LLM Framework for Tailored Dietary Guidance Fan Gao, Xinjie Zhao, Ding Xia, Zhongyi Zhou, Rui Yang, Jinghui Lu, Hang Jiang, Chanjun Park, Irene Li CIKM 2025 Demo
- 10. Rethinking KenLM: Good and Bad Model Ensembles for Efficient Text Quality Filtering in Large Web Corpora

Yungi Kim, Hyunsoo Ha, Sukyung Lee, Jihoo Kim, Seonghoon Yang, <br/>  $\underline{\text{Chanjun Park}}^\dagger ACL~2025$ 

- 11. Enhancing Automatic Term Extraction in Large Language Models via Syntactic Retrieval Yongchan Chun, Minhyuk Kim, Dongjun Kim, Chanjun Park $^{\dagger}$ , Heuiseok Lim $^{\dagger}$  ACL 2025-Findings
- 12. LCIRC: A Recurrent Compression Approach for Efficient Long-form Context and Query Dependent Modeling in LLMs

Sumin An, Junyoung Sung, Wonpyo Park, Chanjun Park $^{\dagger},$  Paul Hongsuck Seo $^{\dagger}$  NAACL 2025, Oral

13. CoME: A Unlearning-based Approach to Conflict-free Model Editing

Dahyun Jung, Jaehyung Seo, Jaewook Lee, <u>Chanjun Park</u> †, Heuiseok Lim † NAACL~2025

14. MIRAGE: A Metric-Intensive Benchmark for Retrieval-Augmented Generation Evaluation Chanhee Park, Hyeonseok Moon, Chanjun Park $^{\dagger}$ , Heuiseok Lim $^{\dagger}$  NAACL 2025-Findings

15. FLEX: A Benchmark for Evaluating Robustness of Fairness in Large Language Models Dahyun Jung\*, Seungyoon Lee\*, Hyeonseok Moon, Chanjun Park†, Heuiseok Lim†

NAACL 2025-Findings

16. Find the Intention of Instruction: Comprehensive Evaluation of Instruction Understanding for Large Language Models

Hyeonseok Moon, Jaehyung Seo, Seungyoon Lee, Chanjun Park $^{\dagger},$  Heuiseok Lim $^{\dagger}$  NAACL 2025-Findings

- 17. Open Ko-LLM Leaderboard2: Bridging Foundational and Practical Evaluation for Korean LLMs Hyeonwoo Kim, Dahyun Kim, Jihoo Kim, Sukyung Lee, Yungi Kim, Chanjun Park \* NAACL 2025 Industry
- 18. Understanding LLM Development Through Longitudinal Study: Insights from the Open Ko-LLM Leaderboard

 $\frac{\text{Chanjun Park}^{\dagger}}{NAACL\ 2025}$ , Hyeonwoo Kim

CharacterGPT: A Persona Reconstruction Framework for Role-Playing Agents
 Jeiyoon Park, Chanjun Park<sup>†</sup>, Heuiseok Lim<sup>†</sup>
 NAACL 2025 - Industry

- 20. Dataverse: Open-Source ETL (Extract, Transform, Load) Pipeline for Large Language Models Hyunbyung Park, Sukyung Lee, Gyoungjin Gim, Yungi Kim, Dahyun Kim, Chanjun Park NAACL 2025 Demo
- 21. Representing the Under-Represented: Cultural and Core Capability Benchmarks for Developing Thai Large Language Models

  Debugg Kim, Sukgang Lee, Vungi Kim, Attanal Butherford, Chapting Park

Dahyun Kim, Sukyung Lee, Yungi Kim, Attapol Rutherford, Chanjun Park  $^{\dagger}$  COLING~2025

22. sDPO: Don't Use Your Data All at Once

Dahyun Kim, Yungi Kim, Wonho Song, Hyeonwoo Kim, Yunsu Kim, Sanghoon Kim, Chanjun Park  $^\dagger$  COLING~2025 - Industry

23. Where am I? Large Language Models Wandering between Semantics and Structures in Long Contexts

Seonmin Koo\*, Jinsung Kim\*, Young Joon Jang, <br/> <u>Chanjun Park</u>†, Heuiseok Lim† EMNLP~2024

24. Search if you don't know! Knowledge-Augmented Korean Grammatical Error Correction with Large Language Models

Seonmin Koo\*, Jinsung Kim\*, Chanjun Park $^{\dagger},$  Heuiseok Lim $^{\dagger}$  EMNLP 2024-Findings

- 25. Translation of Multifaceted Data without Re-Training of Machine Translation Systems Hyeonseok Moon, Seungyoon Lee, Seongtae Hong, Seungjun Lee, Chanjun Park, Heuiseok Lim *EMNLP 2024-Findings*
- 26. SAAS: Solving Ability Amplification Strategy for Enhanced Mathematical Reasoning in Large Language Models

Hyeonwoo  $\operatorname{Kim}^*$ , Gyoungjin  $\operatorname{Gim}^*$ , Yungi  $\operatorname{Kim}^*$ , Jihoo  $\operatorname{Kim}$ , Byungju  $\operatorname{Kim}$ , Wonseok Lee, Chanjun  $\operatorname{Park}^\dagger$  *EMNLP 2024-Industry* 

- 27. Evalverse: Unified and Accessible Library for Large Language Model Evaluation Jihoo Kim, Wonho Song, Dahyun Kim, Yunsu Kim, Yungi Kim, Chanjun Park† EMNLP 2024-Demo
- 28. Open Ko-LLM Leaderboard: Evaluating Large Language Models in Korean with Ko-H5 Benchmark

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

ACL 2024

29. KoCommonGEN v2: A Benchmark for Navigating Korean Commonsense Reasoning Challenges in Large Language Models

Jaehyung Seo, Jaewook Lee, <u>Chanjun Park,</u> Seong<br/>Tae Hong, Seungjun Lee, Heuiseok LimACL~2024-Findings

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

Jungseob Lee, Hyeonseok Moon, Seungjun Lee, Chanjun Park $^\dagger$ , Sugyeong Eo, Hyunwoong Ko, Jaehyung Seo, Seungyoon Lee, Heuiseok Lim $^\dagger$  ACL~2024-Findings

- 31. 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
- 32. 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
- 33. 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
- 34. 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  $\underline{\text{Lim}}$ 

EACL 2024-Findings

35. 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

- 36. KEBAP: Korean Error Explainable Benchmark Dataset for ASR and Post-processing Seonmin  $\operatorname{Koo}^*$ ,  $\operatorname{\underline{Chanjun\ Park}}^*$ , Jinsung Kim, Jaehyung Seo, Sugyeong Eo, Hyeonseok Moon, Heuiseok Lim  $EMNLP\ 2023$
- 37. CHEF in the Language Kitchen: A Generative Data Augmentation Leveraging Korean Morpheme Ingredients

Jaehyung Seo, Hyeonseok Moon, Jaewook Lee, Sugyeong Eo, Chanjun Park, Heuiseok LimEMNLP~2023

38. 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  $IJCNLP\text{-}AACL\ 2023$ 

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

Seugnjun Lee, Hyeonseok Moon, <u>Chanjun Park,</u> Heuiseok LimIWSLT~2023

40. 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 $ACL\ 2023$  -  $Demo\ Track$ 

41. PicTalky: Augmentative and Alternative Communication for Language Developmental Disabilities

 $\frac{\text{Chanjun Park}^*}{AACL\text{-}IJCNLP}$ 2022 - DemoTrack

42. 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 $WMT\ 2022$ 

- 43. **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*
- 44. 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

 $NAACL\ 2022 ext{-}Findings$ 

45. Priming Ancient Korean Neural Machine Translation

Chanjun Park $^*$ , Seolhwa Lee $^*$ , Hyeonseok Moon, Sugyeong Eo, Jaehyung Seo, Heuiseok Lim $\overline{LREC~2022,~Oral}$ 

46. 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  $\overline{LREC~2022}$ 

47. 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

48. 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

#### Workshops

1. From Ambiguity to Accuracy: The Transformative Effect of Coreference Resolution on RAG systems

Youngjoon Jang, Seongtae Hong, Junyoung Son, Sungjin Park, Chanjun Park $^{\dagger}$ , Heuiseok Lim $^{\dagger}$  ACL 2025 - Student Research Workshop

2. Data-centric Machine Learning Research (DMLR): Harnessing Momentum for Science

Manil Maskey, Lilith Bat-Leah, Danilo Brajovic, Paolo Climaco, Alicia Parrish, Chanjun Park, Xiaozhe Yao, Holger Caesar, Bernard Koch, Fatimah Alzamzami, Zhangyang Wang, Jerone Andrews, Praveen Paritosh, Steffen Vogler, Mayee F Chen, Sang T. Truong, Bolei Ma

ICLR 2024 Workshops

3. Proceedings of the Eighth Widening NLP Workshop (WiNLP 2024)

Atnafu Lambebo Tonja, Alfredo Gomez, <u>Chanjun Park,</u> Hellina Hailu Nigatu, Santosh T.Y.S.S, Tanvi Anand, Wiem Ben Rim

EMNLP 2024-Widening NLP Workshop

4. 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

6. 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

7. 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

8. 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

9. 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

10. DMOps: Data Management Operation and Recipes

Eujeong Choi, Chanjun Park\*, †

ICML 2023 - Data-centric Machine Learning Research (DMLR) Workshop

11. 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

12. Transcending Traditional Boundaries: Leveraging Inter-Annotator Agreement (IAA) for Enhancing Data Management Operations

Damrin Kim, NamHyeok Kim, Chanjun Park<sup>†</sup>, Harksoo Kim<sup>†</sup>

ICML 2023 - Data-centric Machine Learning Research (DMLR) Workshop

13. 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

14. 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

15. 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

16. 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

17. A Self-Supervised Automatic Post-Editing Data Generation Tool

Hyeonseok Moon, <u>Chanjun Park</u>, Sugyeong Eo, Jaehyung Seo, Seungjun Lee, Heuiseok Lim *ICML 2022 - DataPerf Workshop* 

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

<u>Chanjun Park</u>\*, Yoonna Jang\*, Seolhwa Lee\*, Sungjin Park\*, Heuiseok Lim <u>AAAI 2022</u> -Artificial Intelligence for Education (AI4EDU)

19. 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  $\overline{NeurIPS~2021}$  - Data-centric~AI~(DCAI)~workshop

20. 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

21. Automatic Knowledge Augmentation for Generative Commonsense Reasoning

Jaehyung Seo, <u>Chanjun Park</u>, Sugyeong Eo, Hyeonseok Moon, Heuiseok Lim NeurIPS 2021 - <u>Data-centric</u> AI (DCAI) workshop

22. Syntax-enhanced Dialogue Summarization using Syntax-aware information

Seolhwa Lee, Kisu Yang, <u>Chanjun Park</u>, João Sedoc, Heuiseok Lim NeurIPS 2021 - Women in Machine Learning workshop

23. Towards Syntax-Aware Dialogue Summarization using Multi-task Learning

Seolhwa Lee, Kisu Yang, <u>Chanjun Park</u>, João Sedoc, Heuiseok Lim EMNLP 2021 - Widening NLP (WiNLP2021) workshop

24. 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

25. 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)

26. 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)

#### **Journals**

1. An Analysis on Language Transfer of Pre-trained Language Model with Cross-lingual Post-training

Suhyune Son\*, <u>Chanjun Park</u>\*, Jungseob Lee\*, Midan Shim\*, Chanhee Lee, Yoonna Jang, Jungwoo Lim, Heuiseok Lim

Expert Systems With Applications (SCIE, Q1), 2024

2. Analysis of the Effectiveness of Model, Data, and User-Centric Approaches for Chat Application: A Case Study of BlenderBot 2.0

<u>Chanjun Park</u>\*, Jungseob Lee\*, Suhyune Son\*, Kinam Park, Jungsun Jang, Heuiseok Lim <u>Applied Sciences</u> (SCIE), 2024

3. Towards Harnessing the Most of ChatGPT for Korean Grammatical Error Correction Chanjun Park\*, Seonmin Koo\*, Gyeongmin Kim, Heuiseok Lim

Applied Sciences (SCIE), 2024

4. Exploiting Hanja-based Resources in Processing Korean Historic Documents written by Common Literati

Hyeonseok Moon, Myunghoon Kang, Jaehyung Seo, Sugyeong Eo, <u>Chanjun Park</u>, Yeongwook Yang, Heuiseok Lim

IEEE Access (SCIE), 2024

5. Enhancing Machine Translation Quality Estimation via Fine-grained Error Analysis and Large Language Model

Dahyun Jung, Chanjun Park, Sugyeong Eo, Heuiseok Lim Mathematics (SCIE), 2023

6. Uncovering the Risks and Drawbacks Associated with the Use of Synthetic Data for Grammatical Error Correction

Seonmin Koo\*, Chanjun Park\*, Seolhwa Lee, Jaehyung Seo, Sugyeong Eo, Hyeonseok Moon, Heuiseok Lim  $IEEE\ Access\ (SCIE),\ 2023$ 

7. Doubts on the Reliability of Parallel Corpus Filtering

Hyeonseok Moon, <u>Chanjun Park</u>, Seonmin Koo, Jungseob Lee, Seungjun Lee, Jaehyung Seo, Sugyeong Eo, Yoonna Jang, Hyunjoong Kim, Hyoung-gyu Lee, Heuiseok Lim Expert Systems With Applications (SCIE, Q1), 2023

8. A Survey on Evaluation Metrics for Machine Translation

Seungjun Lee, Jungseob Lee, Hyeonseok Moon, Chanjun Park, Jaehyung Seo, Sugyeong Eo, Seonmin Koo, Heuiseok Lim

Mathematics (SCIE), 2023

9. K-NCT: Korean Neural Grammatical Error Correction Gold-Standard Test Set Using Novel Error Type Classification Criteria

Seonmin Koo\*, Chanjun Park\*, Jaehyung Seo, Seungjun Lee, Hyeonseok Moon, Jungseob Lee, Heuiseok Lim  $IEEE\ Access\ (SCIE),\ 2022$ 

#### 10. Plain Template Insertion: Korean-Prompt-based Engineering for Few-shot Learners

Jaehyung Seo, Hyeonseok Moon, Chanhee Lee, Sugyeong Eo, Chanjun Park, Jihoon Kim, Changwoo Chun, Heuiseok Lim

IEEE Access (SCIE), 2022

# 11. The ASR post-processor performance challenges of BackTranScription (BTS) : Data-Centric and Model-Centric Approaches

Chanjun Park, Jaehyung Seo, Seolhwa Lee, Chanhee Lee, Heuiseok Lim  $\overline{Mathematics}$  (SCIE), 2022

# 12. PU-GEN: Enhancing Generative Commonsense Reasoning for Language Models with Human-Centered Knowledge

Jaehyung Seo, Dongsuk Oh, Sugyeong Eo, <u>Chanjun Park</u>, Kisu Yang, Hyeonseok Moon, Kinam Park, Heuiseok Lim

 $Knowledge\text{-}Based\ Systems\ (SCIE,\ Q1),\ 2022$ 

### 13. Utilization Strategy of User Engagements in Korean Fake News Detection

Myunghoon Kang, Jaehyung Seo, <u>Chanjun Park</u>, Heuiseok Lim *IEEE Access (SCIE)*, 2022

# 14. BERTOEIC: Solving TOEIC Problems Using Simple and Efficient Data Augmentation Techniques with Pretrained Transformer Encoders

Jeongwoo Lee, Hyeonseok Moon, Chanjun Park, Jaehyung Seo, Sugyeong Eo, Heuiseok Lim Applied Sciences (SCIE), 2022

#### 15. Empirical Analysis of Parallel Corpora and in-depth Analysis using LIWC

Chanjun Park, Midan Shim, Sugyeong Eo, Seolhwa Lee, Jaehyung Seo, Hyeonseok Moon, Heuiseok Lim  $\overline{Applied~Sciences~(SCIE)},~2022$ 

## 16. AI for Patents: A Novel yet Effective and Efficient Framework for Patent Analysis

Junyoung Son, Hyeonseok Moon, Jeongwoo Lee, Seolhwa Lee, <a href="Chanjun Park">Chanjun Park</a>, Wonkyung Jung, Heuiseok Lim IEEE Access (SCIE), 2022

# 17. AI student: A Machine Reading Comprehension System for the Korean College Scholastic Ability Test

Gyeongmin Kim, Soomin Lee, Chanjun Park, Jaechoon JoMathematics~(SCIE),~2022

# 18. Return on Advertising Spend Prediction with Task Decomposition based LSTM Model

Hyeonseok Moon, Taemin Lee, Jaehyung Seo, <u>Chanjun Park</u>, Sugyeong Eo, Imatitikua D. Alyanyo, Jeongbae Park, Aram So, Kyoungwha Ok, Kinam Park <u>Mathematics (SCIE)</u>, 2022

### 19. Word-level Quality Estimation for Korean-English Neural Machine Translation

Sugyeong Eo\*, Chanjun Park\*, Hyeonseok Moon, Jaehyung Seo, Heuiseok Lim  $IEEE\ Access\ (SCIE),\ 2022$ 

# 20. Dense-to-Question and Sparse-to-Answer: Hybrid Retriever System for Industrial Frequently Asked Questions

Jaehyung Seo, Taemin Lee, Hyeonseok Moon, Chanjun Park, Sugyeong Eo, Imatitikua D. Alyanyo, Kinam Park, Aram So, Sungmin Ahn, Jeongbae Park Mathematics (SCIE), 2022

# 21. Mimicking Infants' Bilingual Language Acquisition for Domain Specialized Neural Machine Translation

Chanjun Park\*, Woo-Young Go\*, Sugyeong Eo, Hyeonseok Moon, Seolhwa Lee, Heuiseok Lim  $\overline{IEEE\ Access\ (SCIE)}$ , 2022

### 22. An Automatic Post Editing with Efficient and Simple Data Generation Method

Hyeonseok Moon\*, Chanjun Park\*, Jaehyung Seo, Sugyeong Eo, Heuiseok Lim  $IEEE\ Access\ (SCIE),\ 2022$ 

# 23. Who speaks like a style of Vitamin: Towards Syntax-Aware Dialogue Summarization using Multi-task Learning

Seolhwa Lee, Kisu Yang, Chanjun Park, João Sedoc, Heuiseok Lim IEEE Access (SCIE), 2021

# 24. Grounded Vocabulary for Image Retrieval Using a Modified Multi-Generator Generative Adversarial Network

Kuekyeng Kim, Chanjun Park, Jaehyung Seo, Heuiseok Lim IEEE Access (SCIE), 2021

### 25. An Empirical Study on Automatic Post Editing for Neural Machine Translation

Hyeonseok Moon\*, Chanjun Park\*, Sugyeong Eo, Jaehyung Seo, Heuiseok Lim *IEEE Access (SCIE). 2021* 

# 26. Variational Reward Estimator Bottleneck: Towards Robust Reward Estimator for Multi-Domain Task-Oriented Dialogue

Jeiyoon Park, Chanhee Lee, Chanjun Park, Kuekyeng Kim, Heuiseok Lim Applied Sciences (SCIE),  $20\overline{21}$ 

# 27. Comparative Analysis of Current Approaches to Quality Estimation for Neural Machine Translation

Sugyeong Eo\*, Chanjun Park\*, Hyeonseok Moon, Jaehyung Seo, Heuiseok Lim Applied Sciences (SCIE), 2021

# 28. Exploring the Data Efficiency of Cross-Lingual Post-Training in Pretrained Language Models Chanhee Lee, Kisu Yang, Taesun Whang, Chanjun Park, Andrew Matteson, Heuiseok Lim

Applied Sciences (SCIE), 2021

### 29. Decoding Strategies for Improving Low-Resource Machine Translation

Chanjun Park, YeongWookYang, Kinam Park, Heuiseok Lim *Electronics (SCIE)*, 2020

## 30. Ancient Korean Neural Machine Translation

Chanjun Park, Chanhee Lee, YeongWookYang, Heuiseok Lim  $\overline{IEEE~Access}~(SCIE),~2020$ 

# 31. Comparison of the evaluation metrics for Neural Grammatical Error Correction with Overcorrection

Chanjun Park, Yeong Wook Yang, Chanhee Lee, Heuiseok Lim<br/>  $\overline{IEEE\ Access}\ (SCIE),\ 2020$ 

# 32. Neural Spelling Correction: Translating Incorrect sentences to Correct sentences for Multimedia

Chanjun Park\*, Kuekyeng Kim\*, YeongWookYang, Minho Kang, Heuiseok Lim Multimedia Tools and Applications (SCIE, Q1), 2020

In addition, I have published 21 papers in domestic journals (KCI), 65 papers in domestic conferences, and 35 papers in other international conferences.

## Research Projects

#### Korea University

- National Projects: Research on the reliability and coherence of outcomes produced by Generative AI (IITP) | Development of a Tailored Growth-Support Platform for Startups Based on Core Foundation-Model AI Technologies (IITP) | University Technology Management Promotion Project-TLO-Innovation Type (COMPA) | A Neural-Symbolic Model for Knowledge Acquisition and Inference Techniques (IITP) | Research and Development of Human-inspired multiple intelligence (IITP) | Human-Inspired AI Laboratory-Priority Research Centers Program (NRF) | ICT Creative Consilience Program (IITP) | Research on Korean/English Translation Technology in the Security Domain (NSR)
- Industry Projects: Research on Utilizing Low to Medium Quality Data to Improve NMT Performance (Naver Papago) | Development of technology for extracting purpose sentences and key phrases from patent documents (LG innotek)

### Upstage

- LLM Projects: Solar | sDPO | SAAS | Open Ko-LLM Leaderboard | Open Ko-LLM Leaderboard2 | Dataverse | Evalverse | 1 Trillion Token Club | LP Data Pipeline | MathGPT (with KT & Mathpresso)| E-Commerce LLM (with Connectwave) | News LLM (with BIG KINDS) | Law LLM (with Law&Company) | Medical LLM (with PHI Digital Healthcare) | Thai LLM (with KT & Jasmine Technology Solution) | AskUp Biz
- Semantic Search Projects: Semantic Search Pack (with LG U+ & Amorepacific respectively)
- Education Projects: Upstage AI Lab (with Fastcampus) | Boostcamp (with NAVER Connect Foundation) | Pretraining LLMs (with DeepLearning.AI)
- National Projects: Development of learning and utilization technology to reflect sustainability of generative language models and up-to-dateness over time (IITP) | Development of a Generative AI Agent-Based Legal Case Analysis Support Service (NIPA)

#### **SYSTRAN**

- National Projects: Core technology development of the real-time simultaneous speech translation based on knowledge enhancement (Ministry of Science and ICT)
- Internal Projects: Neural Machine Translation | Automatic Speech Recognition | Real-time Simultaneous Speech Translation | L Cloud (API Portal) | Grammar Error Correction (with Hello Talk) | AI Voice Assistant (with CJ Logistics)

#### **BUFS**

• National Projects: Development of multilingual word translation service based on Korean semantics analysis for multicultural family (National Research Foundation of Korea) | Exobrain (Ministry of Science and ICT, ETRI) | Research and Development of Korean Information Processing Technologies (Ministry of Science and ICT) | ICT VAEMS: Vertical Aquaculture Energy Management (Ministry of Trade, Industry and Energy)

### Academic Services

### **Program Chair**

• Widening NLP (WiNLP) Workshop at EMNLP 2023 & EMNLP 2024

#### **Publication Chair**

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

#### Virtual Social Chair

• COLING 2022

## Area Chair

• ACL, EMNLP

#### **Academic Chair**

• HCLT-KACL 2025

#### Session Chair

• HCLT-KACL 2024

#### **Program Committee**

• ACL, EMNLP, NAACL, EACL, COLING, WMT, ARR, ICML, NeurIPS, ICLR, AAAI

#### Journal Reviewer

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

## **External Activities**

#### Committee Member

- Systems Division for Innovation in the R&D Ecosystem (KISTEP) (2025-)
- Information Technology Committee of the Republic of Korea Army (2024-2025)
- AI Ethics and Trustworthiness Forum (2024)
- AI Privacy Policy Council (2023-)

#### Advisor

- Korea Foundation for the Advancement of Science and Creativity
- Korea Data Agency (K Data)
- Ministry of Science and ICT
- The Korea Institute of Public Administration
- National Institute of Korean Language
- National Information Society Agency (NIA)
- Ministry of Food and Drug Safety
- Yonsei University-Institute of Language and Information Studies
- Software Policy & Research Institutes

# AWARDS/FELLOWSHIPS

#### Awards

- Best Paper Award at International Conference on Small & Medium Business (ICSMB) 2025 (2025)
- Forbes 30 Under 30 Korea (2024)
- Outstanding Paper Award at Korea University (2023)
- Outstanding Paper Award at Annual Conference on Human & Cognitive Language Technology (2019 (x1), 2020 (x1), 2021 (x3), 2022 (x1), 2023 (x2), 2024 (x1))
- 1st Place at WMT Quality Estimation Shared Task 2022 Sentence-level Critical Error Detection (2022)
- 1st Place at Flitto Hackathon (2020)
- $\bullet\,$ 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)
- $\bullet\,$  Scholarship for a cademic excellence by Sooyoungro Church (2016, 2017)
- 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

Granted Patent (12,217,738)

• 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 Granted Patent (10-2690953)
- 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**

#### Soongsil University

• Database Application (2025-Fall)

### Before joining Soongsil University

- Large Language Models, Instructor, Samsung SW-AI academy For Youth (SSAFY). (2025)
- 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, Instructor, BoostCamp NAVER Connect Foundation. (2023-2025)
- 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)
- Machine Translation for everyone, Instructor, SK T Academy (2019)

### **TALKS**

#### **International Talks**

- U.S. Department of State-2024 Tech Camp Korea, Large Language Model in the Wild, November 2024
- Applied ML: LLMs and Knowledge Graphs- Tokyo, The Ecosystem of LLMs from a Real-World Perspective, May 2024
- The University of Tokyo Center for Data-Driven Discovery, SOLAR: The Next Frontier in Large Language Models by Upstage, January 2024

• Korean-English Joint Seminar on Artificial Intelligence (AI) Safety and Reliability, Upstage Vision for Ethical and Trustworthy Large Language Models, December 2023

#### Domestic Talks

- $\bullet$  NIA, Redefining Evaluation and Korea's Leaderboards in the LLM Era, February 2025
- DGIST, Large Language Model in the Wild, November 2024
- LG Electronics, Large Language Model Data and Evaluation in the Wild, November 2024
- KUBIG, Large Language Model in the Wild, November 2024
- Republic of Korea Army Headquarters, Large Language Model in the Wild, October 2024
- Seoul National University, Large Language Model in the Wild, September 2024
- University of Ulsan, Large Language Model in the Wild, September 2024
- Embassy of the United States in Seoul, Large Language Model in the Wild, September 2024
- 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
- 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
- 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
- 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
- $\bullet$  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
- NAVER, Machine Translation for everyone, August 2019