

# Chanjun Park

Technical Leader, Upstage

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## LIFELONG RESEARCH OBJECTIVE

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My lifelong research objective is to advance the development of machine translation systems that ensure consistent translation quality across diverse languages, thereby breaking down barriers to global communication. Through this research, I aim to contribute to creating an environment where linguistic diversity is honored, while enabling effective communication without cultural or linguistic impediments.

## RESEARCH INTERESTS

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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

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- **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

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- **Upstage** Mar. 2022 - Present  
Technical Leader (July. 2023 - Present)  
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

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*Equal contribution: \**, *Corresponding author: †*

*Google Scholar:* <https://scholar.google.com/citations?user=085jNMAAAAJ&hl=en>

*Semantic Scholar:* <https://www.semanticscholar.org/author/Chanjun-Park/2115195904>

## Conferences

- 1. Where am I? Large Language Models Wandering between Semantics and Structures in Long Contexts**  
Seonmin Koo<sup>\*</sup>, Jinsung Kim<sup>\*</sup>, YoungJoon Jang, Chanjun Park<sup>†</sup>, Heuseok Lim<sup>†</sup>  
*EMNLP 2024*
- 2. Search if you don't know! Knowledge-Augmented Korean Grammatical Error Correction with Large Language Models**  
Seonmin Koo<sup>\*</sup>, Jinsung Kim<sup>\*</sup>, Chanjun Park<sup>†</sup>, Heuseok Lim<sup>†</sup>  
*EMNLP 2024-Findings*
- 3. Translation of Multifaceted Data without Re-Training of Machine Translation Systems**  
Hyeonseok Moon, Seungyoon Lee, Seongtae Hong, Seungjun Lee, Chanjun Park, Heuseok Lim  
*EMNLP 2024-Findings*
- 4. SAAS: Solving Ability Amplification Strategy for Enhanced Mathematical Reasoning in Large Language Models**  
Hyeonwoo Kim<sup>\*</sup>, Gyoungjin Gim<sup>\*</sup>, Yungi Kim<sup>\*</sup>, Jihoo Kim, Byungju Kim, Wonseok Lee, Chanjun Park<sup>†</sup>  
*EMNLP 2024-Industry*
- 5. Evalverse: Unified and Accessible Library for Large Language Model Evaluation**  
Jihoo Kim, Wonho Song, Dahyun Kim, Yunsu Kim, Yungi Kim, Chanjun Park<sup>†</sup>  
*EMNLP 2024-Demo*
- 6. 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*
- 7. KoCommonGEN v2: A Benchmark for Navigating Korean Commonsense Reasoning Challenges in Large Language Models**  
Jaehyung Seo, Jaewook Lee, Chanjun Park, SeongTae Hong, Seungjun Lee, Heuseok Lim  
*ACL 2024-Findings*
- 8. Length-aware Byte Pair Encoding for Mitigating Over-segmentation in Korean Machine Translation**  
Jungseob Lee, Hyeonseok Moon, Seungjun Lee, Chanjun Park<sup>†</sup>, Sugyeong Eo, Hyunwoong Ko, Jaehyung Seo, Seungyoon Lee, Heuseok Lim<sup>†</sup>  
*ACL 2024-Findings*
- 9. SOLAR 10.7B: Scaling Large Language Models with Simple yet Effective Depth Up-Scaling**  
Sanghoon Kim<sup>\*, †</sup>, Dahyun Kim<sup>\*</sup>, Chanjun Park<sup>\*, †</sup>, Wonsung Lee<sup>\*, †</sup>, Wonho Song<sup>\*</sup>, Yunsu Kim<sup>\*</sup>, Hyeonwoo Kim<sup>\*</sup>, Yungi Kim, Hyeonju Lee, Jihoo Kim, Changbae Ahn, Seonghoon Yang, Sukyung Lee, Hyunbyung Park, Gyoungjin Gim, Mikyoung Cha, Hwalsuk Lee<sup>†</sup>, Sunghun Kim<sup>†</sup>  
*NAACL 2024 - Industry Track*
- 10. 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, Heuseok Lim<sup>†</sup>  
*LREC-COLING 2024, Oral*
- 11. 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*
- 12. Hyper-BTS Dataset: Scalability and Enhanced Analysis of Back Transcription (BTS) for ASR Post-Processing**  
Chanjun Park, Jaehyung Seo, Seolhwa Lee, Junyoung Son, Hyeonseok Moon, Sugyeong Eo, Chanhee Lee, Heuseok Lim  
*EACL 2024-Findings*
- 13. 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*

14. **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*
15. **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*
16. **Informative Evidence-guided Prompt-based Fine-tuning for English-Korean Critical Error Detection**  
DaHyun Jung, Sugyeong Eo, Chanjun Park, Hyeonseok Moon, Jaehyung Seo, Heuseok Lim  
*IJCNLP-AAACL 2023*
17. **Improving Formality-Sensitive Machine Translation using Data-Centric Approaches and Prompt Engineering**  
Seugnjun Lee, Hyeonseok Moon, Chanjun Park, Heuseok Lim  
*IWSLT 2023*
18. **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, Heuseok Lim  
*ACL 2023 - Demo Track*
19. **PicTalky: Augmentative and Alternative Communication for Language Developmental Disabilities**  
Chanjun Park\*, Yoonna Jang\*, Seolhwa Lee\*, Jaehyung Seo\*, Kisu Yang, Heuseok Lim  
*AAACL-IJCNLP 2022 - Demo Track*
20. **KU X Upstage’s submission for the WMT22 Quality Estimation: Critical Error Detection Shared Task**  
Sugyeong Eo, Chanjun Park, Hyeonseok Moon, Jaehyung Seo, Heuseok Lim  
*WMT 2022*
21. **QUAK: A Synthetic Quality Estimation Dataset for Korean-English Neural Machine Translation**  
Sugyeong Eo, Chanjun Park, Hyeonseok Moon, Jaehyung Seo, Gyeongmin Kim, Jungseob Lee, Heuseok Lim  
*COLING 2022*
22. **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, Heuseok Lim  
*NAACL 2022-Findings*
23. **Priming Ancient Korean Neural Machine Translation**  
Chanjun Park\*, Seolhwa Lee\*, Hyeonseok Moon, Sugyeong Eo, Jaehyung Seo, Heuseok Lim  
*LREC 2022, Oral*
24. **FreeTalky: Don’t Be Afraid! Conversations Made Easier by a Humanoid Robot using Persona-based Dialogue**  
Chanjun Park\*, Yoonna Jang\*, Seolhwa Lee\*, Sungjin Park\*, Heuseok Lim  
*LREC 2022*
25. **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, Heuseok Lim  
*LREC 2022*
26. **Should we find another model?: Improving Neural Machine Translation Performance with ONE-Piece Tokenization Method without Model Modification**  
Chanjun Park\*, Sugyeong Eo\*, Hyeonseok Moon\*, Heuseok Lim  
*NAACL-HLT 2021 - Industry Track, Oral*

## Workshops

1. **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<sup>†</sup>, Heuseok Lim<sup>†</sup>  
*NAACL 2024 - Student Research Workshop*
2. **Explainable CED: A Dataset for Explainable Critical Error Detection in Machine Translation**  
 Dahyun Jung, Sugyeong Eo, Chanjun Park<sup>†</sup>, Heuseok Lim<sup>†</sup>  
*NAACL 2024 - Student Research Workshop*
  3. **Model-Based Data-Centric AI: Bridging the Divide Between Academic Ideals and Industrial Pragmatism**  
Chanjun Park<sup>\*</sup>, <sup>†</sup>, Minsoo Khang<sup>\*</sup>, Dahyun Kim<sup>\*</sup>  
*ICLR 2024 - Data-centric Machine Learning Research (DMLR) Workshop*
  4. **Proceedings of the Seventh Widening NLP Workshop (WiNLP 2023)**  
 Bonaventure F. P. Dossou, Isidora Tourni, Hatem Haddad, Shaily Bhatt, Fatemehsadat Miresghallah, Sunipa Dev, Tanvi Anand, Weijia Xu, Atnafu Lambebo Tonja, Alfredo Gomez, Chanjun Park  
*EMNLP 2023-Widening NLP Workshop*
  5. **Alternative Speech: Complementary Method to Counter-Narrative for Better Discourse**  
 Seungyoon Lee<sup>\*</sup>, DaHyun Jung<sup>\*</sup>, Chanjun Park<sup>\*</sup>, Seolhwa Lee, Heuseok Lim  
*ICDM 2023 - The First Workshop on Data-Centric AI*
  6. **Synthetic Alone: Exploring the Dark Side of Synthetic Data for Grammatical Error Correction**  
Chanjun Park<sup>\*</sup>, Seonmin Koo<sup>\*</sup>, Seolhwa Lee, Jaehyung Seo, Sugyeong Eo, Hyeonseok Moon, Heuseok Lim  
*ICML 2023 - Data-centric Machine Learning Research (DMLR) Workshop*
  7. **DMOps: Data Management Operation and Recipes**  
 Eujeong Choi, Chanjun Park<sup>\*</sup>, <sup>†</sup>  
*ICML 2023 - Data-centric Machine Learning Research (DMLR) Workshop*
  8. **Inter-Annotator Agreement in the Wild: Uncovering Its Emerging Roles and Considerations in Real-World Scenarios**  
 NamHyeok Kim, Chanjun Park<sup>\*</sup>, <sup>†</sup>  
*ICML 2023 - Data-centric Machine Learning Research (DMLR) Workshop*
  9. **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*
  10. **Data-Driven Approach for Formality-Sensitive Machine Translation: Language-Specific Handling and Synthetic Data Generation**  
 Seugnjun Lee, Hyeonseok Moon, Chanjun Park, Heuseok Lim  
*ICML 2023 - Data-centric Machine Learning Research (DMLR) Workshop*
  11. **Toward Practical Automatic Speech Recognition and Post-Processing: a Call for Explainable Error Benchmark Guideline**  
 Seonmin Koo<sup>\*</sup>, Chanjun Park<sup>\*</sup>, Jinsung Kim, Jaehyung Seo, Sugyeong Eo, Hyeonseok Moon, Heuseok Lim  
*ICML 2023 - Data-centric Machine Learning Research (DMLR) Workshop*
  12. **Knowledge Graph-Augmented Korean Generative Commonsense Reasoning**  
 Dahyun Jung, Jaehyung Seo, Jaewook Lee, Chanjun Park, Heuseok Lim  
*ICML 2023 - Data-centric Machine Learning Research (DMLR) Workshop*
  13. **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, Heuseok Lim  
*COLING 2022 - The 1st Workshop on Customized Chat Grounding Persona and Knowledge*
  14. **A Self-Supervised Automatic Post-Editing Data Generation Tool**  
 Hyeonseok Moon, Chanjun Park, Sugyeong Eo, Jaehyung Seo, Seugnjun Lee, Heuseok Lim  
*ICML 2022 - DataPerf Workshop*
  15. **FreeTalky: Don't Be Afraid! Conversations Made Easier by a Humanoid Robot using Persona-based Dialogue**  
Chanjun Park<sup>\*</sup>, Yoonna Jang<sup>\*</sup>, Seolhwa Lee<sup>\*</sup>, Sungjin Park<sup>\*</sup>, Heuseok Lim  
*AAAI 2022 -Artificial Intelligence for Education (AI4EDU)*

16. **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, Heuseok Lim  
*NeurIPS 2021 - Data-centric AI (DCAI) workshop*
17. **A New Tool for Efficiently Generating Quality Estimation Datasets**  
Sugyeong Eo, Chanjun Park, Jaehyung Seo, Hyeonseok Moon, Heuseok Lim  
*NeurIPS 2021 - Data-centric AI (DCAI) workshop*
18. **Automatic Knowledge Augmentation for Generative Commonsense Reasoning**  
Jaehyung Seo, Chanjun Park, Sugyeong Eo, Hyeonseok Moon, Heuseok Lim  
*NeurIPS 2021 - Data-centric AI (DCAI) workshop*
19. **Syntax-enhanced Dialogue Summarization using Syntax-aware information**  
Seolhwa Lee, Kisu Yang, Chanjun Park, João Sedoc, Heuseok Lim  
*NeurIPS 2021 - Women in Machine Learning workshop*
20. **Towards Syntax-Aware Dialogue Summarization using Multi-task Learning**  
Seolhwa Lee, Kisu Yang, Chanjun Park, João Sedoc, Heuseok Lim  
*EMNLP 2021 - Widening NLP (WiNLP2021) workshop*
21. **Two Heads are Better than One? Verification of Ensemble Effect in Neural Machine Translation**  
Chanjun Park, Sungjin Park, Seolhwa Lee, Taesun Whang, Heuseok Lim  
*EMNLP 2021 - The Second Workshop on Insights from Negative Results in NLP*
22. **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, Heuseok Lim  
*ACL 2021 - Workshop on Asian Translation (WAT)*
23. **Dealing with the Paradox of Quality Estimation**  
Sugyeong Eo\*, Chanjun Park\*, Jaehyung Seo, Hyeonseok Moon, Heuseok Lim  
*MT Summit 2021 - Workshop on Technologies for Machine Translation of Low-Resource Languages (LoResMT)*

## Journals

1. **Analysis of the Effectiveness of Model, Data, and User-Centric Approaches for Chat Application: A Case Study of BlenderBot 2.0**  
Chanjun Park\*, Jungseob Lee\*, Suhyune Son\*, Kinam Park, Jungsun Jang, Heuseok Lim  
*Applied Sciences (SCIE), 2024*
2. **Towards Harnessing the Most of ChatGPT for Korean Grammatical Error Correction**  
Chanjun Park\*, Seonmin Koo\*, Gyeongmin Kim, Heuseok Lim  
*Applied Sciences (SCIE), 2024*
3. **Exploiting Hanja-based Resources in Processing Korean Historic Documents written by Common Literati**  
Hyeonseok Moon, Myunghoon Kang, Jaehyung Seo, Sugyeong Eo, Chanjun Park, Yeongwook Yang, Heuseok Lim  
*IEEE Access (SCIE), 2024*
4. **Enhancing Machine Translation Quality Estimation via Fine-grained Error Analysis and Large Language Model**  
Dahyun Jung, Chanjun Park, Sugyeong Eo, Heuseok Lim  
*Mathematics (SCIE), 2023*
5. **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, Heuseok Lim  
*IEEE Access (SCIE), 2023*
6. **Doubts on the Reliability of Parallel Corpus Filtering**  
Hyeonseok Moon, Chanjun Park, Seonmin Koo, Jungseob Lee, Seungjun Lee, Jaehyung Seo, Sugyeong Eo, Yoonna Jang, Hyunjoong Kim, Hyoung-gyu Lee, Heuseok Lim  
*Expert Systems With Applications (SCIE, Q1), 2023*
7. **A Survey on Evaluation Metrics for Machine Translation**  
Seungjun Lee, Jungseob Lee, Hyeonseok Moon, Chanjun Park, Jaehyung Seo, Sugyeong Eo, Seonmin Koo, Heuseok Lim  
*Mathematics (SCIE), 2023*

8. **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, Heuseok Lim  
*IEEE Access (SCIE), 2022*
9. **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, Heuseok Lim  
*IEEE Access (SCIE), 2022*
10. **The ASR post-processor performance challenges of BackTranScription (BTS) : Data-Centric and Model-Centric Approaches**  
Chanjun Park, Jaehyung Seo, Seolhwa Lee, Chanhee Lee, Heuseok Lim  
*Mathematics (SCIE), 2022*
11. **PU-GEN: Enhancing Generative Commonsense Reasoning for Language Models with Human-Centered Knowledge**  
Jaehyung Seo, Dongsuk Oh, Sugyeong Eo, Chanjun Park, Kisu Yang, Hyeonseok Moon, Kinam Park, Heuseok Lim  
*Knowledge-Based Systems (SCIE, Q1), 2022*
12. **Utilization Strategy of User Engagements in Korean Fake News Detection**  
Myunghoon Kang, Jaehyung Seo, Chanjun Park, Heuseok Lim  
*IEEE Access (SCIE), 2022*
13. **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, Heuseok Lim  
*Applied Sciences (SCIE), 2022*
14. **Empirical Analysis of Parallel Corpora and in-depth Analysis using LIWC**  
Chanjun Park, Midan Shim, Sugyeong Eo, Seolhwa Lee, Jaehyung Seo, Hyeonseok Moon, Heuseok Lim  
*Applied Sciences (SCIE), 2022*
15. **AI for Patents: A Novel yet Effective and Efficient Framework for Patent Analysis**  
Junyoung Son, Hyeonseok Moon, Jeongwoo Lee, Seolhwa Lee, Chanjun Park, Wonkyung Jung, Heuseok Lim  
*IEEE Access (SCIE), 2022*
16. **AI student: A Machine Reading Comprehension System for the Korean College Scholastic Ability Test**  
Gyeongmin Kim, Soomin Lee, Chanjun Park, Jaechoon Jo  
*Mathematics (SCIE), 2022*
17. **Return on Advertising Spend Prediction with Task Decomposition based LSTM Model**  
Hyeonseok Moon, Taemin Lee, Jaehyung Seo, Chanjun Park, Sugyeong Eo, Imatitkua D. AIyanyo, Jeongbae Park, Aram So, Kyoungwha Ok, Kinam Park  
*Mathematics (SCIE), 2022*
18. **Word-level Quality Estimation for Korean-English Neural Machine Translation**  
Sugyeong Eo\*, Chanjun Park\*, Hyeonseok Moon, Jaehyung Seo, Heuseok Lim  
*IEEE Access (SCIE), 2022*
19. **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, Imatitkua D. AIyanyo, Kinam Park, Aram So, Sungmin Ahn, Jeongbae Park  
*Mathematics (SCIE), 2022*
20. **Mimicking Infants' Bilingual Language Acquisition for Domain Specialized Neural Machine Translation**  
Chanjun Park\*, Woo-Young Go\*, Sugyeong Eo, Hyeonseok Moon, Seolhwa Lee, Heuseok Lim  
*IEEE Access (SCIE), 2022*
21. **An Automatic Post Editing with Efficient and Simple Data Generation Method**  
Hyeonseok Moon\*, Chanjun Park\*, Jaehyung Seo, Sugyeong Eo, Heuseok Lim  
*IEEE Access (SCIE), 2022*

22. **Who speaks like a style of Vitamin: Towards Syntax-Aware Dialogue Summarization using Multi-task Learning**  
Seolhwa Lee, Kisu Yang, Chanjun Park, João Sedoc, Heuseok Lim  
*IEEE Access (SCIE)*, 2021
23. **Grounded Vocabulary for Image Retrieval Using a Modified Multi-Generator Generative Adversarial Network**  
Kuekyeng Kim, Chanjun Park, Jaehyung Seo, Heuseok Lim  
*IEEE Access (SCIE)*, 2021
24. **An Empirical Study on Automatic Post Editing for Neural Machine Translation**  
Hyeonseok Moon\*, Chanjun Park\*, Sugyeong Eo, Jaehyung Seo, Heuseok Lim  
*IEEE Access (SCIE)*, 2021
25. **Variational Reward Estimator Bottleneck: Towards Robust Reward Estimator for Multi-Domain Task-Oriented Dialogue**  
Jeiyeon Park, Chanhee Lee, Chanjun Park, Kuekyeng Kim, Heuseok Lim  
*Applied Sciences (SCIE)*, 2021
26. **Comparative Analysis of Current Approaches to Quality Estimation for Neural Machine Translation**  
Sugyeong Eo\*, Chanjun Park\*, Hyeonseok Moon, Jaehyung Seo, Heuseok Lim  
*Applied Sciences (SCIE)*, 2021
27. **Exploring the Data Efficiency of Cross-Lingual Post-Training in Pretrained Language Models**  
Chanhee Lee, Kisu Yang, Taesun Whang, Chanjun Park, Andrew Matteson, Heuseok Lim  
*Applied Sciences (SCIE)*, 2021
28. **Decoding Strategies for Improving Low-Resource Machine Translation**  
Chanjun Park, YeongWookYang, Kinam Park, Heuseok Lim  
*Electronics (SCIE)*, 2020
29. **Ancient Korean Neural Machine Translation**  
Chanjun Park, Chanhee Lee, YeongWookYang, Heuseok Lim  
*IEEE Access (SCIE)*, 2020
30. **Comparison of the evaluation metrics for Neural Grammatical Error Correction with Overcorrection**  
Chanjun Park, YeongWookYang, Chanhee Lee, Heuseok Lim  
*IEEE Access (SCIE)*, 2020
31. **Neural Spelling Correction: Translating Incorrect sentences to Correct sentences for Multimedia**  
Chanjun Park\*, Kuekyeng Kim\*, YeongWookYang, Minho Kang, Heuseok 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 34 papers in other international conferences.

## Research Projects

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### Upstage

- **LLM Projects:** Solar | sDPO | SAAS | Open Ko-LLM Leaderboard | Open Ko-LLM Leaderboard2 | Dataverse | Evalverse | 1 Trillion Token Club | 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)

### Korea University

- **National Projects:** A Neural-Symbolic Model for Knowledge Acquisition and Inference Techniques (IITP) | Research and Development of Human-inspired multiple intelligence (IITP) | ICT Creative Consilience Program (IITP) | Research on Korean/English Translation Technology in the Security Domain (National Security Research Institute (NRF))
- **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) | Research on Korean Prompt-Based Engineering for Few-Shot Learners (Hyundai Motors)

## 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

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### 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

- COLING 2025, COLING 2025-Industry Track, AACL 2025, EMNLP 2024-Industry Track, ACL 2024-ML4AL, NAACL 2024-NLP+CSS, NAACL 2024-Insights, NAACL 2024-BEA, ICML 2023-Data-centric Machine Learning Research (DMLR), ACL 2023-Industry Track, ACL 2023-BEA, ACL 2022-Insights, NAACL 2022-Industry Track

### Conference Reviewer

- ACL, EMNLP, NAACL, EACL, COLING, ARR, NeurIPS, ICLR, AACL

### Journal Reviewer

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

## External Activities

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### Committee Member

- Information Technology Committee of the Republic of Korea Army (2024.05-)
- AI Ethics and Trustworthiness Forum (2024.04-)
- AI Privacy Policy Council (2023.10-)

### Advisor

- The Korea Institute of Public Administration (2024.07-)
- National Institute of Korean Language (2024.04-)
- National Information Society Agency (2024.01-)
- Ministry of Food and Drug Safety (2023.12)
- Yonsei University-Institute of Language and Information Studies (2023.12)
- Software Policy & Research Institutes (2023.08)



## AWARDS/FELLOWSHIPS

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### Awards

- 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)
- 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)
- Scholarship for academic excellence by Sooyoungro Church (2016, 2017)
- Undergraduate Study Full Scholarship by Busan University of Foreign Studies (2015-2019)

## PATENTS

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### 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**  
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

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- **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-)
- **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

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### International Talks

- **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

- **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
- **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