# Chanjun Park

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Home: https://parkchanjun.github.io/ LinkedIn: www.linkedin.com/in/bcj1210

## LIFELONG RESEARCH OBJECTIVE

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

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 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

• Korea University Research Professor

Dec. 2024 - Now

Mar. 2022 - Nov.2024

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

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

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

July. 2019 - July. 2022 • Korea University

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. Representing the Under-Represented: Cultural and Core Capability Benchmarks for Developing Thai Large Language Models

Dahyun Kim, Sukyung Lee, Yungi Kim, Attapol Rutherford, <a href="CoLing 2025">Chanjun Park † COLING 2025</a>

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

Dahyun Kim, Yungi Kim, Wonho Song, Hyeonwoo Kim, Yunsu Kim, Sanghoon Kim, <a href="Coling 2025">Chanjun Park</a>  $^\dagger$  <a href="Coling 2025">COLING 2025</a> - Industry

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

Seonmin Koo\*, Jinsung Kim\*, Young Joon Jang, <br/> Chanjun Park  $^{\dagger},$  Heuiseok Lim $^{\dagger}$ <br/> EMNLP~2024

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

Seonmin Koo\*, Jinsung Kim\*, Chanjun Park†, Heuiseok Lim†EMNLP 2024-Findings

- 5. 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
- 6. SAAS: Solving Ability Amplification Strategy for Enhanced Mathematical Reasoning in Large Language Models

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

- 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
- 8. Open Ko-LLM Leaderboard: Evaluating Large Language Models in Korean with Ko-H5 Benchmark

Chanjun Park, Hyeonwoo Kim, Dahyun Kim, Seong<br/>Hwan Cho, Sanghoon Kim, Sukyung Lee, Yungi Kim, Hwalsuk Lee<br/>  $ACL\ 2024$ 

9. 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

10. 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

- 11. 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
- 12. 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

13. 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

14. Hyper-BTS Dataset: Scalability and Enhanced Analysis of Back TranScription (BTS) for ASR Post-Processing

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

EACL 2024-Findings

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

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

16. **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* 

17. 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

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

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

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

20. 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* 

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

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

22. 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 $WMT\ 2022$ 

23. **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* 

24. 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

 $NAACL\ 2022 ext{-}Findings$ 

25. Priming Ancient Korean Neural Machine Translation

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

26. 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  $\overline{LREC~2022}$ 

27. 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

28. 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. 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

2. 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

3. 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

4. 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

5. 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

6. 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

7. 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

8. DMOps: Data Management Operation and Recipes

Eujeong Choi, Chanjun Park\*, †

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

9. 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

10. 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

11. 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

12. Toward Practical Automatic Speech Recognition and Post-Processing: a Call for Explainable Error Benchmark Guideline

Seonmin  $\mathrm{Koo}^*$ , Chanjun  $\mathrm{Park}^*$ , Jinsung Kim, Jaehyung Seo, Sugyeong Eo, Hyeonseok Moon, Heuiseok Lim ICML 2023 - Data-centric Machine Learning Research (DMLR) Workshop

13. 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

14. 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

15. 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* 

16. 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  $\overline{AAAI}$  2022 - Artificial Intelligence for Education (AI4EDU)

17. How should human translation coexist with NMT? Efficient tool for building high quality parallel corpus

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

18. 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

19. Automatic Knowledge Augmentation for Generative Commonsense Reasoning

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

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

Seolhwa Lee, Kisu Yang, Chanjun Park, João Sedoc, Heuiseok Lim NeurIPS 2021 - Women  $\overline{in\ Machine\ Learning\ workshop}$ 

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

Seolhwa Lee, Kisu Yang, Chanjun Park, João Sedoc, Heuiseok Lim  $EMNLP~2021~-Widening~\overline{NLP~(WiNLP2021)}~workshop$ 

22. 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

23. 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)

24. Dealing with the Paradox of Quality Estimation

Sugyeong Eo<sup>\*</sup>, Chanjun Park<sup>\*</sup>, 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\*,  $\underline{\text{Chanjun Park}}^*$ , 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

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

3. Towards Harnessing the Most of ChatGPT for Korean Grammatical Error Correction  $\frac{1}{2}$ 

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, Chanjun Park, 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 ( $\overline{SCIE}$ ), 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, <u>Chanjun Park,</u> 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

 ${\it Jaehyung Seo, Dongsuk Oh, Sugyeong Eo, \underline{Chanjun\ Park}, Kisu\ Yang, Hyeonseok\ Moon, Kinam\ Park, Heuiseok\ Lim}$ 

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

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

Myunghoon Kang, Jaehyung Seo, Chanjun Park, 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, <u>Chanjun Park</u>, 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 $\it IEEE\ Access\ (SCIE),\ 2021$ 

### 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

 $\underline{\text{Chanjun Park}},$ Yeong Wook<br/>Yang, Kinam Park, Heuiseok Lim $\underline{\textit{Electronics (SCIE)}},~2020$ 

## 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

 $\underline{\text{Chanjun Park}},$  Yeong Wook<br/>Yang, Chanhee Lee, Heuiseok Lim $\overline{\textit{IEEE Access}}$  (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 34 papers in other international conferences.

## Research Projects

#### 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)

#### 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

### **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, AAAI 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, AAAI

#### Journal Reviewer

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

## **External Activities**

#### 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

#### 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**

## **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**

- Pretraining LLMs, Content Planning and Production, DeepLearning.AI. (2024-)
- Language Model to Large Language Model (LM to LLM), Lecturer, Fast Campus. (2023-)
- Natural Language Processing (NLP) Basic, Lecturer, Fast Campus. (2023-)
- Learning ChatGPT Utilization and Service Construction with AskUP, Lecturer, Fast Campus. (2023-)
- Finance Specialized Large Language Model for Everyone, Lecturer, Upstage Online Course. (2023)
- Data-Centric NLP, Lecturer, 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, Lecturer, 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

- $\bullet$   $\mathbf{DGIST},$  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

- 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