

Chanjun Park

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Research Interests

Chanjun Park is a researcher in the field of Natural Language Processing (NLP), with a focus on Data-Centric AI, Machine Translation and Large Language Models (LLM). He is currently working as a Principal Research Engineer & Technical Leader at the Upstage LLM Team. His current interests include forming an LLM-based ecosystem, and he has initiated projects such as SOLAR, Open Ko-LLM Leaderboard, Dataverse, Evalverse and Up 1 Trillion Token Club. In 2023, he received his Ph.D. from Korea University, supervised by Professor Heuseok Lim, for his work on “Data-Centric Neural Machine Translation”. From 2018 to 2019, he worked at SYSTRAN as a Research Engineer. Chanjun is the founder and chief scientist of the KU-NMT Group, and has received the Naver Ph.D. Fellowship in 2021. He served as the Virtual Social Chair at COLING 2022, and is currently serving as the Program Chair for the WinLP Workshop and Publication Chair for the DMLR Workshop. He has published more than 190 papers in the field of NLP. Finally, he is selected for Forbes 30 Under 30 Korea in the SCIENCE / SW field.

- Large Language Model (LLM)
- Data-centric AI
- Machine Translation
- Automatic Speech Recognition

Education

Korea University

Seoul, South Korea

PH.D IN COMPUTER SCIENCE AND ENGINEERING, GPA: 4.44 / 4.5

Sep. 2019 - Aug. 2023

- Advisor: Heuseok Lim
- Natural Language Processing & Artificial Intelligence Lab: <http://nlp.korea.ac.kr/>
- Founder and Leader of KU-NMT Group: <https://kunmt.org/>

Busan University of Foreign Studies (BUFS)

Busan, South Korea

B.S. IN NATURAL LANGUAGE PROCESSING & CREATIVE CONVERGENCE, GPA: 4.12 / 4.5

Mar. 2015 - February. 2019

- Advisor: Pummo Ryu
- Full Scholarship

Professional Experience

Upstage

Seoul, South Korea

PRINCIPAL RESEARCH ENGINEER & TECHNICAL LEADER

March. 2022 - Present

- About Upstage: <https://www.upstage.ai/>
- Principal Research Engineer & Technical Leader at Large Language Model (LLM) Team
- Head of LLM related Data and Evaluation (Leading Data-Centric LLM Team)
- Director and Founder of the Open Ko-LLM Leaderboard: <https://huggingface.co/spaces/upstage/open-ko-llm-leaderboard>
- Director and Founder of the Up 1 Trillion Token Club: <https://en.upstage.ai/1tt>
- Director and Founder of the Dataverse: <https://github.com/UpstageAI/dataverse/>
- Director and Founder of the Evalverse: <https://github.com/UpstageAI/evalverse>
- Extensive experience in leading multiple private LLM projects across various fields such as healthcare, Law, Finance, e-commerce, mathematics, and journalism
- Establishment of evaluation system to develop LLM Application (AskUp Biz)
- Participate in the Product Search Pack, Document AI Pack, and RecSys Pack
- Design and Development of DMOPs (Data Management Operation and Recipes). Data-Centric AI Research
- Semantic search project with AMOREPACIFIC & LG U+

SYSTRAN

RESEARCH ENGINEER

Seoul, South Korea

Sep. 2018 - July. 2019

- About SYSTRAN: <https://www.systransoft.com/>
- Automatic Speech Recognition(ASR) Team
- Core technology development of the real-time simultaneous speech translation based on knowledge enhancement (ETRI)
- Participated in NTT Docomo, CJ Logistics, Samsung SDS speech Recognition Solution Project
- Speech recognition service planning and development (Real-time lecture interpretation, Automatic subtitle generation service, English speaking evaluation, Customer-specific recognizer service, Web RTC-based Real-time video interpretation)
- Deep learning based speech recognition research (Acoustic Model, Language Model Training)
- Machine Translation research
- IaaS and PaaS service planning, API Platform service operation planning, B2B B2C planning and development
- Micro Service Architecture Design and Successful API Platform Service Launching Experience (LCloud)
- Reason for leaving: Graduate School Admission

SYSTRAN

RESEARCH INTERN

Seoul, South Korea

June. 2018 - August. 2018

- Automatic Speech Recognition(ASR) Team
- Participated a project "Core technology development of the real-time simultaneous speech translation based on knowledge enhancement (ETRI)"
- Developed Simultaneous Speech Translation (implemented using JAVA, Python and Kaldi)

Academic Services

Data-centric Machine Learning Research (DMLR)

PUBLICATION CHAIR

Anywhere on Earth

September.2023-Present

- DMLR: <https://dmlr.ai/>
- Hosted at ICLR 2024

Widening NLP (WinLP) Workshop

PROGRAM CHAIR

Anywhere on Earth

March.2023-Present

- WinLP: <https://www.winlp.org/>
- Hosted at EMNLP 2023, EMNLP 2024

COLING 2022

VIRTUAL SOCIAL CHAIR

South Korea

Sep.2021-Present

- COLING 2022: <http://coling2022.org/>
- Virtual Social Chair

Program committee

PROGRAM COMMITTEE

South Korea

January.2021-Present

- ACL Rolling Review (ACL, EMNLP, NAACL, EACL etc.) (2022 Current), ACL 2024-ML4AL, NAACL 2024-NLP+CSS, NAACL 2024-Insights, NAACL 2024-BEA, NAACL 2024-Industry Track, ICML 2023-Data-centric Machine Learning Research (DMLR), ACL 2023-Industry Track, ACL 2023-BEA, ACL 2022-Insights, NAACL 2022-Industry Track

Reviewer

REVIEWER

South Korea

January.2021-Present

- ICLR 2024 Workshop Proposal Reviewing, ETRI Journal, IEEE Access, International Journal of Human-Computer Interaction, Cybernetics and Systems, Applied Sciences, Electronics, Entropy, Connection Science

External Activities

AI Ethics and Trustworthiness Forum (AI 윤리 · 신뢰성 포럼 위원) - AI 전략최고위협의회의 윤리 · 안전분과

COMMITTEE MEMBER

South Korea

April.2024-Present

- News: <https://www.edaily.co.kr/news/read?newsId=02758486638857432&mediaCodeNo=257&OutLnkChk=Y>

National Institute of Korean Language (국립국어원 AI 말뚱)

ADVISOR

South Korea

May.2024-Present

- Consulting related to the evaluation of Korean LLM

Information Technology Committee of the Republic of Korea Army (육군발전자문위원회 정보화분과 자문위원)

ADVISOR

South Korea

May.2024-April.2025

- News: <https://www.edaily.co.kr/news/read?newsId=02758486638857432&mediaCodeNo=257&OutLnkChk=Y>

AI Privacy Policy Council (AI 프라이버시 민·관 정책협의회)

COMMITTEE MEMBER

- News: <https://www.youtube.com/watch?v=Z1GEsgLKzc4>

South Korea

October.2023-Present

Ministry of Food and Drug Safety

ADVISOR

- Homepage: <https://www.mfds.go.kr/index.do>

South Korea

December.2023-Present

Yonsei University-Institute of Language and Information Studies

ADVISOR

- Homepage: <https://ilis2.yonsei.ac.kr/ilis/index.do>
- Invited by Professor Hansaem Kim

South Korea

December.2023

Software Policy & Research Institute

ADVISOR

- Homepage: <https://spri.kr/>

South Korea

August.2023

Selected Publications

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

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

Jungseob Lee, Hyeonseok Moon, Seungjun Lee, Sugyeong Eo, Chanjun Park, Hyunwoong Ko, Jaehyung Seo, Seungyeon Lee, Heuiseok Lim, (Corresponding Author)

ACL 2024-Findings

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

Jaehyung Seo, Jaewook Lee, Chanjun Park, SeongTae Hong, Seungjun Lee, Heuiseok Lim

ACL 2024-Findings

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, Heui-Seok Lim

EACL 2024-Findings, 2024

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

Hyeonseok Moon, Jaewook Lee, Sugyeong Eo, Chanjun Park, Jaehyung Seo, Heui-Seok Lim

EACL 2024-Findings, 2024

Solar 10.7 b: Scaling large language models with simple yet effective depth up-scaling

Sanghoon, Lee, Dahyun Kim, Chanjun Park, Wonsung Kim, 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, (Equal Contribution (First Co-Author), (Corresponding Author))

NAACL 2024 - Industry Track (2024). 2024

Informative Evidence-guided Prompt-based Fine-tuning for English-Korean Critical Error Detection

Dahyun Jung, Sugyeong Eo, Chanjun Park, Hyeonseok Moon, Jaehyung Seo, Heuiseok Lim

IJCNLP-AACL 2023, 2023

KEBAP: Korean Error Explainable Benchmark Dataset for ASR and Post-processing

Seonmin Koo, Chanjun Park, Jinsung Kim, Jaehyung Seo, Sugyeong Eo, Hyeonseok Moon, Heui-Seok Lim, (Equal Contribution (First Co-Author))

EMNLP 2023, 2023

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 Yahya, Heui-Seok Lim

ACL 2023-System Demonstrations, 2023

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

Seugnjun Lee, Hyeonseok Moon, Chanjun Park, Heui-Seok Lim

ACL 2023 - IWSLT 2023, 2023

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

Expert Systems with Applications (2023) p. 120962. Elsevier, 2023

CHEF in the Language Kitchen: A Generative Data Augmentation Leveraging Korean Morpheme Ingredients

Jaehyung Seo, Hyeonseok Moon, Jaewook Lee, Sugyeong Eo, Chanjun Park, Heui-Seok Lim

EMNLP 2023, 2023

FreeTalky: Don't Be Afraid! Conversations Made Easier by a Humanoid Robot using Persona-based Dialogue

Chanjun Park, Yoonna Jang, Seolhwa Lee, Sungjin Park, Heuiseok Lim

LREC 2022, 2022, Marseille, France

PicTalky: Augmentative and Alternative Communication for Language Developmental Disabilities

Chanjun Park, Yoonna Jang, Seolhwa Lee, Jaehyung Seo, Kisu Yang, Heuseok Lim

AACL-IJCNLP 2022: System Demonstrations, 2022, Taipei, Taiwan

Priming Ancient Korean Neural Machine Translation

Chanjun Park, Seolhwa Lee, Jaehyung Seo, Hyeonseok Moon, Sugyeong Eo, Heuseok Lim

LREC 2022, 2022, Marseille, France

QUAK: A Synthetic Quality Estimation Dataset for Korean-English Neural Machine Translation

Sugyeong Eo, **Chanjun Park**, Hyeonseok Moon, Jaehyung Seo, Gyeongmin Kim, Jungseob Lee, Heui-Seok Lim

COLING 2022, 2022

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 - EMNLP 2022 - Proceedings of the Seventh Conference on Machine Translation, 2022, Abu Dhabi

Empirical Analysis of Noising Scheme based Synthetic Data Generation for Automatic Post-editing

Hyeonseok Moon, **Chanjun Park**, Seolhwa Lee, Jaehyung Seo, Jungseob Lee, Sugyeong Eo, Heuseok Lim

LREC 2022, 2022, Marseille, France

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, 2022, Seattle, United States

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 (2022) p. 109861. Elsevier, 2022

Should we find another model?: Improving Neural Machine Translation Performance with ONE-Piece Tokenization Method without Model Modification

Chanjun Park, Sugyeong Eo, Hyeonseok Moon, Heui-Seok Lim

NAACL 2021: Industry Papers, 2021

Selected Research Experience

Solar

Seoul, South Korea

PRINCIPAL RESEARCHER IN UPSTAGE

June. 2023. - Present

- Role of Principal Research Engineer & Tech Leader in LLM Team
- We introduce the first 10.7 billion (B) parameter model, SOLAR-10.7B (Specialized and Optimized Llm and Applications with Reliability). It's compact, yet remarkably powerful, and demonstrates unparalleled state-of-the-art performance in models with parameters under 30B.
- Achieving Global No. 1 on the Open LLM Leaderboard
- URL: <https://huggingface.co/upstage/SOLAR-10.7B-v1.0>
- Paper: <https://arxiv.org/abs/2312.15166>
- Press: <https://www.yna.co.kr/view/AKR20231214066100017?input=1195m>
- Blog: <https://www.upstage.ai/feed/product/solarmini-performance-report>
- API (SaaS Console): <https://console.upstage.ai/>
- Poe: <https://poe.com/Solar-Mini>
- AWS JumpStart: <https://bitly.ws/3gyjc>
- LangChain: <https://python.langchain.com/docs/integrations/chat/upstage/>
- **Product Lineup:** Solar Chat, Solar Chat Document, Solar Embedding, Solar Translation (Ko->En), Solar Summarization, Solar, Groundedness Check, Solar Function Call

(Project) Development of technologies for sustaining LLMs and incorporating recency for up-to-date relevance

Seoul, South Korea

PRINCIPAL RESEARCHER IN UPSTAGE

April. 2024. - Present

- Conducting fundamental research and developing benchmarks related to the recency of LLMs.
- Conducting joint research with ETRI, NC Soft, Seoul National University, and KAIST
- Skills: LLM, NLP, Data

(Project) Jasmine Technology Solution Private Thai LLM Project

Seoul, South Korea

PRINCIPAL RESEARCHER IN UPSTAGE

April. 2024. - Present

- Data and evaluation responsibility roles related to Private Thai LLM
- Deployment of Enterprise-Exclusive Thai LLM
- Skills: LLM, NLP, Data

(Project) Law&Company Private LLM Project

Seoul, South Korea

PRINCIPAL RESEARCHER IN UPSTAGE

April. 2024. - Present

- Data and evaluation responsibility roles related to Private Law LLM
- Deployment of Enterprise-Exclusive Law LLM
- Press: <https://www.epnc.co.kr/news/articleView.html?idxno=241298>
- Skills: LLM, NLP, Data

(Project) DeepLearning.AI

Seoul, South Korea

PRINCIPAL RESEARCHER IN UPSTAGE

January. 2024. - June.2024

- Development and planning of lecture content related to pretraining large language models
- Hosted by Andrew Ng
- Skills: LLM, NLP, Data

Evalverse

Seoul, South Korea

RESEARCHER IN UPSTAGE

March. 2024. - Present

- Open-Source Project for LLM Evaluation
- URL: <https://github.com/UpstageAI/evalverse/tree/main>
- Director and Founder of the Evalverse
- Skills: LLM, NLP, Data

Dataverse

Seoul, South Korea

PRINCIPAL RESEARCHER IN UPSTAGE

March. 2024. - Present

- Open-Source Project for Data Extract, Transform, Load (ETL) Related to LLM
- URL: <https://github.com/UpstageAI/dataverse/>
- Press: <https://www.aitimes.com/news/articleView.html?idxno=157776>
- Director and Founder of the Dataverse
- Skills: LLM, NLP, Data

Open Ko-LLM LeaderBoard

Seoul, South Korea

PRINCIPAL RESEARCHER IN UPSTAGE

August. 2023. - Present

- The Open Ko-LLM Leaderboard objectively evaluates the performance of Korean Large Language Model (LLM)
- URL: <https://huggingface.co/spaces/upstage/open-ko-llm-leaderboard>
- Press: <https://www.aitimes.kr/news/articleView.html?idxno=28851>
- HuggingFace Blog: <https://huggingface.co/blog/leaderboard-upstage>
- Director and Founder of the Open Ko-LLM Leaderboard
- Skills: LLM, NLP, Data

Up 1T Token Club

Seoul, South Korea

PRINCIPAL RESEARCHER IN UPSTAGE

August. 2023. - Present

- Role of overall responsibility for the 'Up 1T Token Club'. Through this, I aimed to share models developed using Korean data, thereby expanding accessibility to AI technology. In other words, I aspire to spearhead a national initiative that moves beyond just sharing models to fostering a culture of sharing data.
- URL: <https://en.upstage.ai/1tt>
- Press: <https://www.seoul.co.kr/news/newsView.php?id=20230814500068>
- Director and Founder of the Up 1 Trillion Token Club
- Skills: LLM, NLP, Data

(Project) Connect Wave Private LLM Project

Seoul, South Korea

PRINCIPAL RESEARCHER IN UPSTAGE

September. 2023. - April. 2024

- Data and evaluation responsibility roles related to Private E-commerce LLM
- Deployment of Enterprise-Exclusive E-commerce LLM
- Press: https://newsis.com/view/?id=NISX20230911_0002445129&cID=10406&pID=13100
- Skills: LLM, NLP, Data

(Project) Math LLM Project

Seoul, South Korea

PRINCIPAL RESEARCHER IN UPSTAGE

September. 2023. - December. 2023.

- Technical PM roles
- Achieving State of the Art (SOTA) in GSM8K and Math Benchmark
- Collaboration Underway Among QANDA, KT, and Upstage
- Press: <https://n.news.naver.com/mnews/article/001/0014430469?sid=105>
- Meta Official Blog: <https://ai.meta.com/blog/llama-2-mathgpt-mathpresso-qanda-upstage-open-source-llm/>
- Paper: <https://arxiv.org/abs/2404.03887>
- Skills: LLM, NLP, Data

(Project) BIG KINDS LLM Project

Seoul, South Korea

PRINCIPAL RESEARCHER IN UPSTAGE

September. 2023. - December. 2023.

- Data and evaluation responsibility roles related to Private LLM
- Deployment of Enterprise-Exclusive LLM for Press Field
- Skills: LLM, NLP, Data

(Project) Medical LLM Project

Seoul, South Korea

PRINCIPAL RESEARCHER IN UPSTAGE

July. 2023. - December. 2023.

- Data and evaluation responsibility roles related to Private LLM
- Exploration of Medical Use Cases using LLM
- Skills: LLM, NLP, Data

(Project) Hanwha Life Insurance LLM Application Project

Seoul, South Korea

PRINCIPAL RESEARCHER IN UPSTAGE

July. 2023. - November. 2023.

- Development of an Insurance-Specialized Conversational QA System based on LLM
- Responsible for designing LLM evaluation
- Skills: LLM, NLP, Data

Large Language Model (LLM) TF

Seoul, South Korea

RESEARCHER IN UPSTAGE

June. 2023. - July. 2023.

- Research for Large Language Model (LLM)
- Participate Hugging Face Open LLM Leaderboard
- As of July 20, 2023, achieved first place worldwide
- Press: <https://www.aitimes.com/news/articleView.html?idxno=152958>
- Skills: LLM, NLP, Data

AskUp Biz

Seoul, South Korea

RESEARCHER IN UPSTAGE

June. 2023. - Present

- Research for Large Language Model (LLM) based 3rd Party Platform (LLM Applications)
- Responsible for LLM evaluation
- AskUp Seargest, AskUp QA
- Skills: Data-Centric AI, LLM, NLP, Search

DMOps for Document AI

Seoul, South Korea

RESEARCHER IN UPSTAGE

October.2022. - June.2023

- Data Management Operations (DMOps) research related to OCR
- Building training and evaluation data for OCR
- Presentation at AI · DATA SUMMIT 2023: https://conference.etnews.com/conf_info.html?uid=237
- Publication of 7 research paper in ICML-Data-centric Machine Learning Research (DMLR): <https://dmlr.ai/>
- Press: <https://www.aitimes.com/news/articleView.html?idxno=151905>
- Skills: Data Management, DataOps, OCR

(Project) LGU + VOD Search Project

Seoul, South Korea

RESEARCHER IN UPSTAGE

June. 2022. - October.2022

- Gold Testset and evaluation system design for tag extraction model comparison
- Responsible for designing search system evaluation. Planning and designing blind tests for comparison with commercial systems
- Press: <http://www.asiaa.co.kr/news/articleView.html?idxno=90842>
- Skills: Customer Experience (CX), Quality Assurance (QA)

(Project) Amorepacific Search commercialization Project

Seoul, South Korea

RESEARCHER IN UPSTAGE

March. 2022. - June.2022

- Participated in Amorepacific's AP Mall search commercialization project
- Stability test planning and design
- Response time testing planning and design
- Establishment of systematic QA process based on bug testing
- Skills: Customer Experience (CX), Quality Assurance (QA)

(Project) Polyglot: Large Language Models of Well-balanced Competence in Multi-languages

Seoul, South Korea

RESEARCHER IN ELEUTHER AI

September. 2022. - May.2023

- Various multilingual models such as mBERT, BLOOM, and XGLM have been released. Therefore, someone might ask, "why do we need to make multilingual models again?" Before answering the question, we would like to ask, "Why do people around the world make monolingual models in their language even though there are already many multilingual models?" We would like to point out there is a dissatisfaction with the non-English language performance of the current multilingual models as one of the most significant reason. So we want to make multilingual models with higher non-English language performance. This is the reason we need to make multilingual models again and why we name them 'Polyglot'.
- Skills: Language Model, Data management

(Project) Hyundai Motor - Korean-Prompt-based Engineering for Few-shot Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

March. 2022. - July. 2022.

- Plain Template Insertion: Korean-Prompt-based Engineering for Few-shot Learners
- Supported by Hyundai Motor
- Publication of research paper in IEEE Access (SCIE): <https://ieeexplore.ieee.org/document/9913979>
- Skills: Prompt learning, Few-shot learning, Pytorch, Huggingface

(Project) NAVER PAPAGO - Parallel Corpus Filtering and Mining

Seoul, South Korea

RESEARCHER IN KOREA UNIV

December. 2021. - June. 2022.

- Research for Static and Dynamic Parallel Corpus Filtering and Mining
- Human-inspired curriculum learning based NMT
- Publication of research paper in Expert Systems With Applications (SCIE): bit.ly/3K8VCM2
- Supported by NAVER PAPAGO
- Skills: Neural Machine Translation, Parallel corpus filtering, Pytorch, Fairseq

(Project) LG Innotek - Development of patent document invention sentence extraction and key phrase extraction module

Seoul, South Korea

RESEARCHER IN KOREA UNIV

June. 2021. - December. 2021.

- AI for Patent research
- T5 based Key sentence extraction and key phrase generation
- Supported by "LG Innotek"
- Publication of research paper in IEEE Access (SCIE): <https://ieeexplore.ieee.org/document/9779775>
- Skills: Automatic Summarization, Sentence classification, Information Extraction Pytorch, Huggingface

(Project) National Security Research Institute - Domain Specialized Neural Machine Translation (Security)

Seoul, South Korea

RESEARCHER IN KOREA UNIV

May. 2020. - November.2020

- Research on Neural Machine Translation specialized for security domain
- Supported by "National Security Research Institute"
- Project Manager, Tech Lead
- Development of the latest translation model based on Transformer/BERT, AI-based Korean-English translation model suitable for the security field, and research trend of the latest AI-based translation technology research
- We propose Cross Communication Method (CCM), a new DS-NMT training methodology, inspired by cognitive scientific interpretation of cross language speech perception. This is the first study to reflect cognitive science theory in DS-NMT training methodology.
- Publication of research paper in IEEE Access: <https://ieeexplore.ieee.org/document/9751075>
- Skills: Neural Machine Translation, Pytorch, Python

(Project) A Neural-Symbolic Model for Knowledge Acquisition and Inference Techniques

Seoul, South Korea

RESEARCHER IN KOREA UNIV

April. 2020. - July. 2023

- Neural-Symbolic Model Research and Development
- Skills: Neural Symbolic Computing, Knowledge base, Pytorch, Python
- Supported by IITP
- Demo: <http://nlplab.iptime.org:32245/>

(Project) Research and development of human-inspired multiple intelligence

Seoul, South Korea

RESEARCHER IN KOREA UNIV

September. 2019. - August. 2022

- Human-inspired language understanding model
- Funded by the Korea Ministry of Science and ICT (MSIT)
- Site: <http://hiaai.co.kr/>

(Project) ETRI - Core technology development of the real-time simultaneous speech translation based on knowledge enhancement

Seoul, South Korea

RESEARCHER IN SYSTRAN

June. 2018. - July. 2019

- Collaboration with the Korea Electronics and Telecommunications Research Institute (ETRI) Language Intelligence Research Group
- Director: Dr. Young-Gil Kim (ETRI)
- 3rd year: Real-time lecture interpretation solution development
- 4th year: Busan University of Foreign Studies Field Group Test (FGT) progress and software maintenance
- Skills: JAVA, JAVA FX, Kaldi

(Project) Neural Machine Translation service for SK Telecom's in-house education program

Seoul, South Korea

RESEARCHER IN SYSTRAN

April. 2019. - April. 2019

- Development of automation software to provide translation service to SK Telecom's in-house education program
- Skills: Python

LCloud-API Platform Service Development

Seoul, South Korea

RESEARCHER IN SYSTRAN

January. 2019. - June. 2019

- Planning and development of natural language processing API Platform Service
- Gravitee IO-based platform design, planning, marketing materials production, strategy establishment
- REST API management using Swagger
- Transcription API, Translation API, Address Correction API, Speaker Verification API
- Learned Microservices architecture(MSA), IT Infrastructure
- Skills: Gravitee IO, Microservices architecture(MSA), IT Infrastructure, Mockup, Marketing, Strategic Planning, Technology management, Amazon AWS

Speech recognition transcription tool development

Seoul, South Korea

RESEARCHER IN SYSTRAN

January. 2019. - July. 2019

- Development and maintenance of speech recognition transcription tool, modification and addition of various functions
- Skills: Front End, Spring Boot, Flask, AJAX, MySQL, Kaldi,

(Project) CJ Logistics Speech Recognition Agent

Seoul, South Korea

RESEARCHER IN SYSTRAN

Aug. 2018. - July. 2019

- CJ Logistics artificial intelligence (AI) virtual assistant project
- Skills: Quality Assurance, Quality control, Mockup, Strategic Planning, Kaldi

(Project) Development of multilingual word translation service based on Korean semantics analysis for multicultural family

Seoul, South Korea

RESEARCHER IN BUFS

Sep. 2016. - June. 2018

- Han-Tong-E: Multilingual Word Translation Service based on Word Semantic Analysis
- Collaboration with Professor Ok Cheol-young's laboratory at Ulsan University
- Project homepage development
- In-depth understanding of Utagger and seminar on WSD
- Build project-related data and conduct surveys
- Project Page: <https://bufsconv.blogspot.kr/>
- Funded by National Research Foundation of Korea(NRF)

(Project) Establishment of Gold Standard language resource bank for Korean machine learning and evaluation (Next-generation information computing technology development business)

Seoul, South Korea

RESEARCHER IN BUFS

Sep. 2017. - June. 2018

- For the purpose of developing Korean Natural Language Toolkit
- Development of automatic Korean word spacing and Korean compound noun decomposer
- Skills: Python

(Project) Local industry development project in connection with public institutions

RESEARCHER IN BUFS

- ICT VAEMS: Vertical Aquaculture Energy Management
- Funded by the Korea Institute for Advancement of Technology(KIAT)

Seoul, South Korea

Sep. 2016. - Aug. 2017

(Project) Basic Research on Semantic Frame Generation for Short Questions (ExoBrain)

RESEARCHER IN BUFS

- Exobrain Project

Seoul, South Korea

Oct. 2015. - Feb. 2016

Honors & Awards

2023.10	Forbes 30 Under 30 Korea , Forbes	South Korea
2023.10	Best Paper Award (Language Model 2 Section), 2023 , The 35th Annual Conference on Human & Cognitive Language Technology (HCLT2023)	South Korea
2023.10	Best Paper Award (Data Bias & Ethics Section), 2023 , The 35th Annual Conference on Human & Cognitive Language Technology (HCLT2023)	South Korea
2023.02	Best Paper Award , Korea University	South Korea
2023.02	Research Encouragement Scholarship , Korea University	South Korea
2022.12	1st place in WMT 2022 QE Task 3, 2022 , WMT 2022 - EMNLP 2022	Abu Dhabi
2022.10	Best Paper Award, 2022 , The 34th Annual Conference on Human & Cognitive Language Technology (HCLT2022)	South Korea
2021.12	Naver Ph.D. Fellowship, 2021 , Naver	South Korea
2021.10	Best Paper Award (NLP Application 2 Section), 2021 , The 33rd Annual Conference on Human & Cognitive Language Technology (HCLT2021)	South Korea
2021.10	Best Paper Award (Language Resource Section), 2021 , The 33rd Annual Conference on Human & Cognitive Language Technology (HCLT2021)	South Korea
2021.10	Best Paper Award (QA and Speech Section), 2021 , The 33rd Annual Conference on Human & Cognitive Language Technology (HCLT2021)	South Korea
2021.07	Ranked 4th on the CommonGen 1.1 Leaderboard (Nov. 2022 Ranked 7th, CommonGen 1.1) , CommonGen 1.1	South Korea
2020.11	1st Place in Flitto Hackathon (Team Lead), 2020 , Flitto	South Korea
2020.10	Best Paper Award, 2020 , The 32nd Annual Conference on Human & Cognitive Language Technology (HCLT2020)	South Korea
2020.05	Best practices for using NIA AI training data(Korean-English Neural Machine Translation model) , AI Hub	South Korea
2019.10	Best Paper Award, 2019 , The 31st Annual Conference on Human & Cognitive Language Technology (HCLT2019)	South Korea
2019.10	1st Place Microsoft AI Accessibility Hackathon in Korea (Team Lead) , Microsoft	South Korea
2019.03	Graduate School Associate Scholarship , Sungkyunkwan University	South Korea
2018.10	Next Generation Information Processing NLP Competition 2018: Participation Award , Next-generation information computing technology development business	South Korea
2017.06	Bit Computer Excellence Award (President Award) , Bit Computer	South Korea
2015-2019	Full Scholarship , BUFS	South Korea
2016-2017	Scholarship for academic excellence , Sooyoungro Church	South Korea

Skills

Programming Skills	Python, JAVA, C / C++
Machine Learning & Deep Learning	Pytorch, Pytorch lightning, Keras, Tensorflow, Huggingface, OpenNMT, Fairseq, Kaldi, FAISS
Natural Language Processing	Large Language Model, Data-Centric AI, Machine Translation, Speech Recognition, Information Retrieval
Product & Project Manager	MS Office, Notion, Slack, Pitch, Linear, Whimsical, Recruiitee
Software Skills	Linux, AWS, Docker, Latex
Language Skills	Korean, English, Japanese, Thai, Myanmar

Patents

2019.12	Device and method for correcting Korean spelling , Granted Patent (10-2430918)	South Korea
2020.09	METHOD OF BUILDING TRAINING DATA OF MACHINE TRANSLATION , Granted Patent (10-2409667)	South Korea
2022.04	Correction performance evaluation metrics of neural network machine translation and method of constructing the same , Granted Patent (10-2390154)	South Korea
2020.09	METHOD OF TRANSLATING ANCIENT KOREAN USING MACHINE TRANSLATION , Granted Patent (10-2425922)	South Korea
2020.09	APPARATUS AND METHOD FOR OUTPUTTING IMAGE CORRESPONDING TO LANGUAGE , Granted Patent (10-2476497)	South Korea
2021.05	Method For Generating Training Data And Method For Post-Processing Of Speech Recognition Using The Same , Granted Patent (10-2557810), PCT application	South Korea
2021.11	DEVICE AND METHOD FOR GENERATING OF TRAINING DATA FOR QUALITY ESTIMATION IN MACHINE TRANSLATION , Granted Patent (10-2593447)	South Korea
2021.09	APPARATUS FOR CORPUS PROCESSING, APPARATUS AND METHOD AND MACHINE TRANSLATION , Granted Patent (10-2574167)	South Korea
2021.03	Improving speech recognition performance using TTS in domain-specific environment , Apply for a patent	South Korea
2021.09	DEVICE AND METHOD FOR GENERATING TRAINING DATA FOR AUTOMATIC POST EDITING , Apply for a patent	South Korea
2021.09	DEVICE AND METHOD FOR GENERATING OPTIMAL TRANSLATION SUBTITLE USING QUALITY ESTIMATION , Apply for a patent	South Korea
2021.09	METHOD OF BUILDING TRAINING DATA OF MACHINE TRANSLATION , PCT International Application	South Korea

Teaching Experience

Fast Campus

INSTRUCTOR

South Korea
August. 2023-Present

- Language Model to Large Language Model (LM to LLM)
- Invited by Fast Campus
- URL: https://fastcampus.co.kr/b2g_kdigitaltraining_ai

Fast Campus

INSTRUCTOR

South Korea
August. 2023-Present

- Natural Language Processing (NLP) Basic
- Invited by Fast Campus
- URL: https://fastcampus.co.kr/b2g_kdigitaltraining_ai

Fast Campus

INSTRUCTOR

South Korea
August. 2023-Present

- Learning ChatGPT Utilization and Service Construction with AskUP
- Invited by Fast Campus
- URL: https://fastcampus.co.kr/data_online_askup

Upstage

INSTRUCTOR

South Korea
July. 2023-Present

- Course Name: Finance Specialized Large Language Model for Everyone
- Upstage Online Course

BoostCamp - NAVER Connect Foundation

MASTER (INSTRUCTOR)

South Korea
February. 2023-Present

- Course Name: Data-centric NLP
- HomePage: https://boostcamp.connect.or.kr/program_ai.html

Korea University

TEACHING ASSISTANT

South Korea
Autumn 2021

- (BDC101) Introduction to Natural Language Processing in Big Data

Korea University

HEAD TEACHING ASSISTANT

South Korea
Autumn 2020

- (BDC101) Introduction to Natural Language Processing in Big Data
- (DFE610) Natural Language Processing for Digital Finance Engineering

Korea University

TEACHING ASSISTANT

- (COSE461)Natural Language Processing
- (DFC615)Artificial Intelligence and Natural Language Processing
- Lecture materials: <https://github.com/Parkchanjun/KU-NLP-2020-1>

South Korea

Spring 2020

Invited Talk

KCC 2024

PRESENTER

- SOLAR: The Next Frontier in Large Language Models by Upstage and its Ecosystem
- Invited by KCC 2024 Organizer

South Korea

June. 2024

Kyungpook National University

PRESENTER

- The Ecosystem of LLMs from a Real-World Perspective
- Invited by Professor Dongsuk Oh

South Korea

June. 2024

Applied ML: LLMs and Knowledge Graphs - Tokyo

PRESENTER

- The Ecosystem of LLMs from a Real-World Perspective
- Invited by Kaitlan Melone

South Korea

May. 2024

Chungnam National University

PRESENTER

- Data and Evaluation Methods for Trustworthy AI
- Invited by Professor Sangkeun Jung

South Korea

May. 2024

AI Safety Compass Conference 2024

PRESENTER

- Data and Evaluation Methods for Trustworthy AI
- Invited by Team Cookie
- URL: <https://2024asc.oopsy.io/>

South Korea

May. 2024

Chonbuk National University

PRESENTER

- SOLAR: The Next Frontier in Large Language Models by Upstage and its Ecosystem
- Invited by Professor Hyun-Je Song

South Korea

May. 2024

TTA

PRESENTER

- LLM Evaluation and its Ecosystem
- Invited by TTA

South Korea

May. 2024

ETRI

PRESENTER

- SOLAR: The Next Frontier in Large Language Models by Upstage and its Ecosystem
- Invited by Dr. Kyoungman Bae

South Korea

May. 2024

AI Tech 2024 - AI Frontier for AI Era

PRESENTER

- SOLAR: The Next Frontier in Large Language Models by Upstage and its Ecosystem
- Invited by Professor AI Expo Korea
- URL: <https://dubiz.co.kr/Event/249>

South Korea

May. 2024

No code · Low code Hyper-automation Conference 2024

PRESENTER

- The Ecosystem of LLMs from a Real-World Perspective
- Invited by Professor ZDNET Korea
- URL: <https://jco.zdnet.co.kr/conference/hyper2024>

South Korea

May. 2024

Hallym University

PRESENTER

- SOLAR: The Next Frontier in Large Language Models by Upstage and its Ecosystem
- Invited by Professor Yu-Seop Kim

South Korea

April. 2024

Korean Society of Artificial Intelligence in Medicine

PRESENTER

- Current state of Large-Scale Generative AI Development
- Invited by Korean Society of Artificial Intelligence in Medicine

South Korea

April. 2024

NIA

PRESENTER

- Open Ko-LLM Leaderboard and ites Ecosystem
- Invited by NIA

South Korea

April. 2024

Korea University College of Medicine - Intelligent Medical Data Lab

PRESENTER

- SOLAR: The Next Frontier in Large Language Models by Upstage
- Invited by Korea University College of Medicine

South Korea

February. 2024

Fast Campus

PRESENTER

- Job Employment Special Lecture
- Invited by Fast Campus

South Korea

February. 2024

FuriosaAI

PRESENTER

- SOLAR: The Next Frontier in Large Language Models by Upstage
- Invited by FuriosaAI

South Korea

February. 2024

The University of Tokyo - Center for Data-Driven Discovery

PRESENTER

- SOLAR: The Next Frontier in Large Language Models by Upstage
- Invited by Professor Kyunghyun Cho (<https://kyunghyuncho.me/>)

South Korea

January. 2024

Defense Agency for Technology and Quality (DTaQ)

PRESENTER

- Current State of Artificial Intelligence (AI) and Its Application Strategies in the Defense Sector
- Invited by Defense Agency for Technology and Quality (DTaQ)

South Korea

January. 2024

National Library of Korea

PRESENTER

- Upstage LLM One Pager
- Invited by National Library of Korea

South Korea

January. 2024

Ministry of Science and ICT - Data Utilization Council

PRESENTER

- Upstage LLM One Pager
- Invited by Ministry of Science and ICT

South Korea

December. 2023

Korean-English Joint Seminar on Artificial Intelligence (AI) Safety and Reliability

PRESENTER

- Upstage Vision for Ethical and Trustworthy Large Language Models
- Invited by TTA
- URL: <https://www.tta.or.kr/tta/selectBbsNttView.do?key=74&bbsNo=105&nttNo=13121&fbclid=IwAR2XW8KEGB6sBCmKk20HvIuZ9SP9QjiyfQ7dB1XhMy5k1PI31tH0a-6Kcno>

South Korea

December. 2023

Digital Innovation Forum (Ministry of Culture, Sports and Tourism)

PRESENTER

- Generative AI era: Copyright issues and countermeasures
- Invited by Ministry of Culture, Sports and Tourism
- URL: <https://www.culture.go.kr/digicon/sub02/sub04.php>

South Korea

November. 2023

Kyungpook National University

PRESENTER

- Upstage LLM One Pager
- Invited by Kyungpook National University

South Korea

November. 2023

Future Technology Exchange Conference in Southeast Region

PRESENTER

- Upstage LLM One Pager
- Invited by Pukyong National University

South Korea

November. 2023

Jeju National University

PRESENTER

- Upstage LLM One Pager
- Invited by Jeju National University

South Korea

November. 2023

Busan University of Foreign Studies

PRESENTER

- From Language Model to Large Language Model
- Invited by Busan University of Foreign Studies

South Korea

November. 2023

KB Kookmin Bank

PRESENTER

- Areas of Generative AI Application in Business
- Invited by KB Kookmin Bank

South Korea

November. 2023

Human-Inspired AI Research

PRESENTER

- Upstage and Private LLM
- Invited by Human-Inspired AI Research

South Korea

November. 2023

NIA

PRESENTER

- Upstage LLM and latest B2B LLM trends
- Invited by NIA (National Information Society Agency)

South Korea

October. 2023

Woongjin Thinkbig

PRESENTER

- Upstage and Private LLM
- Invited by Woongjin Thinkbig

South Korea

September. 2023

Kyobo Life Insurance

PRESENTER

- Upstage and Private LLM
- Invited by Kyobo Life Insurance

South Korea

September. 2023

HD Korea Shipbuilding & Offshore Engineering

PRESENTER

- Upstage and Private LLM
- Invited by HD Korea Shipbuilding & Offshore Engineering

South Korea

September. 2023

Korea University

INSTRUCTOR

- From Language Model to Large Language Model
- Invited by Professor Changhee joo, Heuseok Lim

South Korea

September. 2023

HanYang University

INSTRUCTOR

- From Language Model to Large Language Model
- URL: <https://gsai.hanyang.ac.kr/front/community/notice/view?id=164286>
- Invited by Professor Taeuk Kim

South Korea

September. 2023

Korea Institute of Patent Information

PRESENTER

- Upstage LLM and latest B2B LLM trends
- Invited by Korea Institute of Patent Information

South Korea

September. 2023

AGI Town in Seoul

PRESENTER

- The use case of solving customer problems using LLM
- URL: <https://bitly.ws/UVNt>
- Invited by AGI Town in Seoul

South Korea

September. 2023

Fast Campus

PRESENTER

- Job Employment Special Lecture
- Invited by Fast Campus

South Korea

September. 2023

HD Korea Shipbuilding & Offshore Engineering

PRESENTER

- Upstage LLM and latest B2B LLM trends
- Invited by HD Korea Shipbuilding & Offshore Engineering

South Korea

August. 2023

Upstage Webinar

PRESENTER

- The Future of Finance/Insurance Transformed by Generative AI
- Invited by Upstage
- URL: bit.ly/3qomK2U

South Korea

August. 2023

Google I/O Extended 2023 Incheon

PRESENTER

- From Language Model to Large Language Model
- Invited by Google I/O Extended 2023 Incheon
- URL: <https://festa.io/events/3780>

South Korea

August. 2023

POSCO RIST

PRESENTER

- Data-Centric AI in Real-World
- Invited by POSCO RIST

South Korea

August. 2023

Google I/O Extended 2023 Seoul

PRESENTER

- From Language Model to Large Language Model
- Invited by Google I/O Extended 2023 Seoul
- URL: <https://festa.io/events/3683>

South Korea

July. 2023

TensorFlow Korea LLM Day

PRESENTER

- Language Model to Large Language Model
- Invited by TensorFlow Korea (TFKR)
- URL: <https://festa.io/events/3717>

South Korea

July. 2023

Jeju National University

INSTRUCTOR

- Real-World Artificial Intelligence and Large Language Model for Everyone
- Invited by Jeju National University

South Korea

July. 2023

AI Education Alliance Policy lab (AIEDAP)

INSTRUCTOR

- Deep Learning Understanding and Practice
- Invited by AIEDAP

South Korea

June. 2023

KIDA (Korea Institute for Defense Analysis)

PRESENTER

- Data-Centric AI in the Large Language Model Era
- Invited by KIDA (Korea Institute for Defense Analysis)

South Korea

May. 2023

Upstage

PRESENTER

- NLP based Large Language Model for All

South Korea

April. 2023

AI · DATA SUMMIT 2023

PRESENTER

- Real-World Centric AI
- Invited by AI · DATA SUMMIT 2023
- URL: <https://www.youtube.com/watch?v=20NXHKGV3uI&t=2s>

South Korea

February. 2023

Sunmoon University

PRESENTER

- Real-World Centric AI
- Invited by Sunmoon University

South Korea

December. 2022

Kyungsung University

PRESENTER

- Language and Information Studies and the Future of Artificial Intelligence
- Invited by Kyungsung University

South Korea

August. 2022

Hankuk University of Foreign Studies

PRESENTER

- Basic practice of natural language processing for everyone
- Invited by Hankuk University of Foreign Studies, Interpreting and Translation Research Institute (ITRI)

Dongguk University

PRESENTER

- Artificial intelligence and Machine Translation lectures (3 times)
- Invited by Dongguk University, Department of English Language and Literature

Busan Social Welfare Development Institute

INVITED ADVISOR

- Attending advisory meetings and Focus Group Interview
- ICT-Based Ecosystem Construction Plan to Secure Opportunities to Enjoy Together - A Study on Developmental Disabilities

LLsoLLu

PRESENTER

- Latest natural language processing trends
- Language Representation, Neural Symbolic Computing
- Invited by LLsoLLu Global Strategy and Planning Team

NC SOFT

PRESENTER

- Technology Transfer Seminar
- Korean Spelling Corrector Using Automatic Noise Generation Methodology
- Invited by NC SOFT Language AI Team

Dongguk University

PRESENTER

- A.I - NLP - MT for Liberal Arts
- Introduction to Natural Language Processing, RBMT, SMT, NMT, OpenNMT
- Invited by Dongguk University, Department of English Language and Literature professor. Myung-Kwan Park
- Lecture materials: https://github.com/Parkchanjun/Dongguk_AI_NLP_MachineTranslation

SKC

INSTRUCTOR

- Deep Learning and Natural Language Processing Course
- Introduction of Text Preprocessing and NLP for Linguistics
- Introduction of Word Embedding
- Introduction of Machine Translation
- Lecture materials(Text Preprocessing): https://github.com/Parkchanjun/SKC_Text_Preprocessing
- Lecture materials(Introduction of Machine Translation): https://github.com/Parkchanjun/SKC_MachineTranslation

SK T Academy

INSTRUCTOR

- Machine Translation for Everyone
- Invited by SK Planet
- Introduction to Natural Language Processing, RBMT, SMT, NMT, OpenNMT
- Lecture videos: <https://tacademy.skplanet.com/live/player/onlineLectureDetail.action?seq=165>

Naver Tech Talk

PRESENTER

- Machine Translation for Everyone
- Invited by Sung Kim who are the Head of Naver Clova A.I
- Lecture videos: <https://tv.naver.com/v/9906991>

All Publications

PREPRINTS

sDPO: Don't Use Your Data All at Once

Dahyun Kim, Yungi Kim, Wonho Song, Hyeonwoo Kim, Yunsu Kim, Sanghoon Kim, **Chanjun Park, (Corrsponding Author)**
arXiv preprint arXiv:2403.19270 (2024). 2024

SAAS: Solving Ability Amplification Strategy for Enhanced Mathematical Reasoning in Large Language Models

Hyeonwoo Kim, Gyoungjin Gim, Yungi Kim, Jihoo Kim, Byungju Kim, Wonseok Lee, **Chanjun Park, (Corrsponding Author)**
arXiv preprint arXiv:2404.03887 (2024). 2024

Evalverse: Unified and Accessible Library for Large Language Model Evaluation

Jihoo Kim, Wonho Song, Dahyun Kim, Yunsu Kim, Yungi Kim, **Chanjun Park, (Corrsponding Author)**
arXiv preprint arXiv:2404.00943 (2024). 2024

South Korea

July. 2022

South Korea

January. 2022

South Korea

July. 2021

South Korea

March. 2020

South Korea

February. 2020

South Korea

January. 2020

South Korea

Oct. 2019 - Nov.2019

South Korea

Aug. 2019

South Korea

Aug. 2019

Translation of Multifaceted Data without Re-Training of Machine Translation Systems

Hyeonseok Moon, Seungyoon Lee, Seongtae Hong, Seungjun Lee, **Chanjun Park**, Heuseok Lim
arXiv preprint arXiv:2404.16257 (2024). 2024

Dataverse: Open-Source ETL (Extract, Transform, Load) Pipeline for Large Language Models

Hyunbyung Park, Sukyung Lee, Gyoungjin Gim, Yungi Kim, Dahyun Kim, **Chanjun Park**, **(Corrponding Author)**
arXiv preprint arXiv:2403.19340 (2024). 2024

Self-Improving-Leaderboard (SIL): A Call for Real-World Centric Natural Language Processing Leaderboards

Chanjun Park, Hyeonseok Moon, Seolhwa Lee, Jaehyung Seo, Sugyeong Eo, Heuseok Lim
arXiv preprint arXiv:2303.10888 (2023). 2023

Empirical study on BlenderBot 2.0 Errors Analysis in terms of Model, Data and User-Centric Approach

Jungseob Lee, Midan Shim, Suhyune Son, Yujin Kim, **Chanjun Park**, Heuseok Lim, **(Equal Contribution (First Co-Author))**
arXiv preprint arXiv:2201.03239 (2022). 2022

Language Chameleon: Transformation analysis between languages using Cross-lingual Post-training based on Pre-trained language models

Suhyune Son, **Chanjun Park**, Jungseob Lee, Midan Shim, Chanhee Lee, Yoonna Jang, Jaehyung Seo, Heuseok Lim, **(Equal Contribution (First Co-Author))**
arXiv preprint arXiv:2209.06422 (2022). 2022

TOP CONFERENCE

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

Explainable CED: A Dataset for Explainable Critical Error Detection in Machine Translation

Dahyun Jung, Sugyeong Eo, **Chanjun Park**, Heuseok Lim, **(Corrponding Author)**
NAACL 2024 - Student Research Workshop

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

Jungseob Lee, Hyeonseok Moon, Seungjun Lee, Sugyeong Eo, **Chanjun Park**, Hyunwoong Ko, Jaehyung Seo, Seungyoon Lee, Heuseok Lim, **(Corrponding Author)**
ACL 2024-Findings

Exploring Inherent Biases in LLMs within Korean Social Context: A Comparative Analysis of ChatGPT and GPT-4

Seungyoon Lee, Dongjun Kim, Dahyun Jung, **Chanjun Park**, Heuseok Lim, **(Corrponding Author)**
NAACL 2024 - Student Research Workshop

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

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 (2024). 2024

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

Chanjun Park, Jaehyung Seo, Seolhwa Lee, Junyoung Son, Hyeonseok Moon, Sugyeong Eo, Chanhee Lee, Heui-Seok Lim
EACL 2024-Findings, 2024

Detecting Critical Errors Considering Cross-Cultural Factors in English-Korean Translation

Sugyeong Eo, Jungwoo Lim, **Chanjun Park**, DaHyun Jung, Seonmin Koo, Hyeonseok Moon, Jaehyung Seo, Heui-Seok Lim
LREC-COLING 2024, 2024

Leveraging Pre-existing Resources for Data-Efficient Counter-Narrative Generation in Korean

Seungyoon Lee, **Chanjun Park**, DaHyun Jung, Hyeonseok Moon, Jaehyung Seo, Sugyeong Eo, Heui-Seok Lim, **(Corrponding Author)**
LREC-COLING 2024, 2024

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

Hyeonseok Moon, Jaewook Lee, Sugyeong Eo, **Chanjun Park**, Jaehyung Seo, Heui-Seok Lim
EACL 2024-Findings, 2024

Solar 10.7 b: Scaling large language models with simple yet effective depth up-scaling

Sanghoon, Lee, Dahyun Kim, **Chanjun Park**, Wonsung Kim, 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, **(Equal Contribution (First Co-Author), (Corrponding Author))**
NAACL 2024 - Industry Track (2024). 2024

Synthetic Alone: Exploring the Dark Side of Synthetic Data for Grammatical Error Correction

Chanjun Park, Seonmin Koo, Seolhwa Lee, Jaehyung Seo, Sugyeong Eo, Hyeonseok Moon, Heuseok Lim
ICML 2023 - Data-centric Machine Learning Research (DMLR) Workshop (2023). 2023

DMOps: Data Management Operation and Recipes

Eujeong Choi, **Chanjun Park**, **(Corresponding Author)**
ICML 2023 - Data-centric Machine Learning Research (DMLR) Workshop (2023). 2023

Proceedings of the Seventh Widening NLP Workshop (WiNLP 2023)

Bonaventure FP Dossou, Isidora Tourni, Hatem Haddad, Shaily Bhatt, Fatemehsadat Mireshghallah, Sunipa Dev, Tanvi Anand, Weijia Xu, Atnafu Lambebo Tonja, Alfredo Gomez, **Chanjun Park**

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-AACL 2023, 2023

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 (2023). 2023

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

Damrin Kim, NamHyeok Kim, **Chanjun Park**, Harksoo Kim, **(Corresponding Author)**

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

Inter-Annotator Agreement in the Wild: Uncovering Its Emerging Roles and Considerations in Real-World Scenarios

NamHyeok Kim, **Chanjun Park**, **(Corresponding Author)**

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

KEBAP: Korean Error Explainable Benchmark Dataset for ASR and Post-processing

Seonmin Koo, **Chanjun Park**, Jinsung Kim, Jaehyung Seo, Sugyeong Eo, Hyeonseok Moon, Heui-Seok Lim, **(Equal Contribution (First Co-Author))**

EMNLP 2023, 2023

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, Heuseok Lim, **(Equal Contribution (First Co-Author))**

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

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 Yahya, Heui-Seok Lim

ACL 2023-System Demonstrations, 2023

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

Seugnjun Lee, Hyeonseok Moon, **Chanjun Park**, Heui-Seok Lim

ACL 2023 - IWSLT 2023, 2023

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 (2023). 2023

Alternative Speech: Complementary Method to Counter-Narrative for Better Discourse

Seungyoon Lee, Dahyun Jung, **Chanjun Park**, Seolhwa Lee, Heuseokv Lim

ICDM 2023 - The First Workshop on Data-Centric AI (DCAI) (2023). 2023

CHEF in the Language Kitchen: A Generative Data Augmentation Leveraging Korean Morpheme Ingredients

Jaehyung Seo, Hyeonseok Moon, Jaewook Lee, Sugyeong Eo, **Chanjun Park**, Heui-Seok Lim

EMNLP 2023, 2023

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, 2022, Marseille, France

Priming Ancient Korean Neural Machine Translation

Chanjun Park, Seolhwa Lee, Jaehyung Seo, Hyeonseok Moon, Sugyeong Eo, Heuseok Lim

LREC 2022, 2022, Marseille, France

QUAK: A Synthetic Quality Estimation Dataset for Korean-English Neural Machine Translation

Sugyeong Eo, **Chanjun Park**, Hyeonseok Moon, Jaehyung Seo, Gyeongmin Kim, Jungseob Lee, Heui-Seok Lim

COLING 2022, 2022

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KommonGen: A Dataset for Korean Generative Commonsense Reasoning Evaluation (Best Paper Award)

Jaehyung Seo, **Chanjun Park**, Heonseok Moon, Sugyeong Eo, Myunghoon Kang, Seounghoon Lee, HeuiSeok Lim

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Con-Talky: Information Extraction and Visualization Platform for Communication of Construction Industry

Midan Shim, **Chanjun Park**, Yuna Hur, HeuiSeok Lim

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Categorization and Analysis of Error Types in the Korean Speech Recognition System (Best Paper Award)

Junyoung Son, **Chanjun Park**, Jaehyung Seo, HeuiSeok Lim

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A Comparative Study on Korean Relation Extraction with entity position information

Suhylene Son, Yuna Hur, Jungwoo Lim, Midan Shim, **Chanjun Park**, HeuiSeok Lim

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Attention Patterns and Semantics of Korean Language Models

Kisu Yang, Yoonna Jang, Jingwoo Lim, **Chanjun Park**, Hwanseok Jang, HeuiSeok Lim

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Quality, not Quantity? : Effect of parallel corpus quantity and quality on Neural Machine Translation

Chanjun Park, Yeonsu Lee, Chanhee Lee, HeuiSeok Lim

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Alleviation of Overcorrection Problem in Neural Korean Spelling Correction

Chanjun Park, Yeonsu Lee, Kisu Yang, HeuiSeok Lim

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Design Neural Machine Translation Model Combining External Symbolic Knowledge

Sugyeong Eo, **Chanjun Park**, HeuiSeok Lim

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Cross-Lingual Transfer of Pretrained Transformers to Resource-Scarce Languages (Best Paper Award)

Chanhee Lee, **Chanjun Park**, Gyeongmin Kim, Dongsuk Oh, HeuiSeok Lim

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MMA: Multi-modal Message Aggregation for Korean VQA

Sungjin Park, **Chanjun Park**, Jaehyung Seo, HeuiSeok Lim

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Korean Spell Correction based on Denoising Transformer

Chanjun Park, Sol Jeong, Kisu Yang, Sumi Lee, Jaechoon Joe, HeuiSeok Lim

The 31st Annual Conference on Human Cognitive Language Technology, 2019

Parallel Corpus Filtering and Korean-Optimized Subword Tokenization for Machine Translation

Chanjun Park, Gyeongmin Kim, HeuiSeok Lim

The 31st Annual Conference on Human Cognitive Language Technology, 2019

Optimization of Data Augmentation Techniques in Neural Machine Translation

Chanjun Park, Kuekyeng Kim, HeuiSeok Lim

Comparative Study of Sentiment Analysis Model based on Korean Linguistic Characteristics

Gyeongmin Kim, **Chanjun Park**, HeuiSeok Lim

The 31st Annual Conference on Human Cognitive Language Technology, 2019

Cross-Validated Ensemble Methods in Natural Language Inference (Best Paper Award)

Kisu Yang, Taesun Whang, Dongsuk Oh, **Chanjun Park**, HeuiSeok Lim

The 31st Annual Conference on Human Cognitive Language Technology, 2019

Korean Spacing Module using Eojeol dictionary and Morpheme dictionary

Chanjun Park, Jin-hyuk Choi, Pummo Ryu

Korea Software Congress 2018, 2018

Knowledge-enhancing Real-time Lecture interpreter service Development

Chanjun Park, Minho Kang, Byunggun Park, Suntae Kim, Myeongjin Hwang, Dongpil Kim, Young-kil Kim

Korea Software Congress 2018, 2018

Voice recognition performance improvement using TTS system in address recognition system

Chanjun Park, Suntae Kim, Minho Kang, Myeongjin Hwang, Byunggun Park, Yeonsu Kim

Korea Software Congress 2018, 2018

Improved speech recognition performance in business meeting environments using domain-specific method

Chanjun Park, Suntae Kim, Minho Kang, Byunggun Park, Myeongjin Hwang, Yeonsu Kim

Korea Software Congress 2018, 2018

Spam/Ham Classification using Ensemble Technique of Machine Learning Algorithms

Chanjun Park, Pummo Ryu

Korea Computer Congress 2018, 2018

Two-Stage Korea Compound Noun Decomposer

Chanjun Park, Pummo Ryu

The 30th Annual Conference on Human Cognitive Language Technology, 2018

Dictionary based Compound Noun Decomposer using Resource extension

Chanjun Park, Hyejin Won, Pummo Ryu

Korea Computer Congress 2018, 2018

BOOK CHAPTERS

Data-Centric Neural Machine Translation - A Real-World Approaches

Chanjun Park

Ph.D. Thesis (2023). 2023

Natural Language Processing Bible

Heuiseok Lim, **Korea University NLPAL Lab**

Human Science, <https://www.aladin.co.kr/shop/wproduct.aspx?partner=rss&ISBN=K412637214>, 2020

Extracurricular Activities during Undergraduate Studies

Operate Naver's natural language processing blog

South Korea

BLOGGER

2016.Dec-Present

- URL: <https://blog.naver.com/bcj1210>
- Linguistics for natural language processing
- Natural Language Processing (NLP)
- Machine Translation for Everyone
- Business, strategy, and planning for everyone
- Natural language processing with NLTK
- Software engineering

OpenNMT Forum Members

South Korea

MEMBERS

2019.July-2019.July

- Active as OpenNMT Forum Members
- Develop and share OpenNMT Pytorch, Tensorflow, Library Tutorial

ETRI's machine translation quality evaluator

South Korea

ESTIMATOR

2019.October-2019.December

- Quality evaluation of machine translation hosted by ETRI

Completed the natural language processing tutorial (2016-2019)

South Korea

STUDENT

2016 - 2019

- Special Interest Group of Human and Cognitive Language Technology

Journalist of the Ministry of Science and ICT

REPORTER

- 8 articles published
- Visit Exobrain Quiz Show
- URL: <https://blog.naver.com/bcj1210/221147196551>

South Korea

2016.Feb-2017.Feb

BIT Computer Advanced Course Completion

STUDENT

- Bit Advanced Course Completion and Bit President Award
- Bit project level 2 license
- Development of intelligent English learning APP

South Korea

2016.January-2016.August

BIT Computer Short Course Completion

STUDENT

- Short-term course completion (C, JAVA, Data Structure)

South Korea

2015.June-2015.August