

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 Model (LLM). He is currently working as an Technical Leader (TL) at Upstage. In 2023, he received Ph.D. from Korea University under the supervision of Professor Heuseok Lim for the work on “Data-Centric Neural Machine Translation”. From 2018 to 2019, he worked at SYSTRAN as a Research Engineer. Chanjun is the founder and leader 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. He has published more than 150 papers in the field of NLP.

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

Education

Korea University

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

- Advisor: Heuseok Lim
- Natural Language Processing & Artificial Intelligence Lab
- Founder and Leader of KU-NMT Group.

Seoul, South Korea

Sep. 2019 - Aug. 2023

Busan University of Foreign Studies (BUFS)

B.S. IN NATURAL LANGUAGE PROCESSING & CREATIVE CONVERGENCE, GPA: 4.2 / 4.5

- Advisor: Pummo Ryu
- Full Scholarship

Busan, South Korea

Mar. 2015 - Aug. 2018

Academic Services

Widening NLP (WinLP) Workshop

PROGRAM CHAIR

- WinLP: <https://www.winlp.org/>

Anywhere on Earth

March. 2023 - Present

COLING 2022

VIRTUAL SOCIAL CHAIR

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

South Korea

Sep. 2021 - Present

Program committee

PROGRAM COMMITTEE

- ICML 2023-Data-centric Machine Learning Research (DMLR), ACL 2023-Industry Track, ACL 2023-BEA, EACL 2023, EACL 2023-Insights, ACL 2022-Insights, NAACL 2022-Industry Track, Reviewer of ARR (2022 Current)

South Korea

January. 2021 - Present

Reviewer

REVIEWER

- IEEE Access, International Journal of Human-Computer Interaction, Cybernetics and Systems, Applied Sciences, Electronics, Entropy, Connection Science

South Korea

January. 2021 - Present

Selected Publications

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

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

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

Seonmin Koo, **Chanjun Park**, Jinsung Kim, Jaehyung Seo, Sugyeong Eo, Hyeonseok Moon, Heuiseok Lim, **(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, Proceedings of the 20th International Conference on Spoken Language Translation, 2023

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 (2023). 2023

Doubts on the reliability of parallel corpus filtering

Hyeonseok Moon, **Chanjun Park**, Seonmin Koo, Jungseob Lee, Seugnjun Lee, Jaehyung Seo, Sugyeong Eo, Yoonna Jang, Hyunjoong Kim, Hyoung-gyu Lee

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

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

Chanjun Park, Woo-Young Go, Sugyeong Eo, Hyeonseok Moon, Seolhwa Lee, Heuiseok Lim

IEEE Access 10 (2022) pp. 38684–38693. IEEE, 2022

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 (Proceedings of the Language Resources and Evaluation Conference), 2022, Marseille, France

PicTalky: Augmentative and Alternative Communication for Language Developmental Disabilities

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

LREC 2022 (Proceedings of the Language Resources and Evaluation Conference), 2022, Marseille, France

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

Mathematics 10.19 (2022). 2022

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

Applied Sciences 12.11 (2022) p. 5545. Multidisciplinary Digital Publishing Institute, 2022

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 - Proceedings of the 29th International Conference on Computational Linguistics, 2022

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

Focus on FoCuS: Is FoCuS focused on Context, Knowledge and Persona?

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

COLING 2022 - Proceedings of the 1st Workshop on Customized Chat Grounding Persona and Knowledge, 2022

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, 2022 (2022). 2022

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, Heuiseok Lim

LREC 2022 (Proceedings of the Language Resources and Evaluation Conference), 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, Heuiseok Lim

Findings of the Association for Computational Linguistics: NAACL 2022, 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, Heuiseok 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 - Proceedings of the 2021 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies: Industry Papers, 2021

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

AAAI 2022 - Artificial Intelligence for Education(AI4EDU) (2021). 2021

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

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

NeurIPS 2021 - Data-centric AI (DCAI) workshop (2021). 2021

Two Heads are Better than One? Verification of Ensemble Effect in Neural Machine Translation

Chanjun Park, Sungjin Park, Seolhwa Lee, Taesun Whang, Heuseok Lim

EMNLP 2021 - Proceedings of the Second Workshop on Insights from Negative Results in NLP, 2021, Online and Punta Cana, Dominican Republic

BTS: Back TranScription for Speech-to-Text Post-Processor using Text-to-Speech-to-Text

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

ACL 2021 - Proceedings of the 8th Workshop on Asian Translation (WAT2021), 2021, Online

Dealing with the Paradox of Quality Estimation

Sugyeong Eo, **Chanjun Park**, Hyeonseok Moon, Jaehyung Seo, Heuseok Lim, **(Equal Contribution (First Co-Author))**

MT Summit - Proceedings of the 4th Workshop on Technologies for MT of Low Resource Languages (LoResMT2021), 2021, Virtual

A New Tool for Efficiently Generating Quality Estimation Datasets

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

NeurIPS 2021 - Data-centric AI (DCAI) workshop, 2021

Syntax-enhanced Dialogue Summarization using Syntax-aware information

Seolhwa Lee, Kisu Yang, **Chanjun Park**, João Sedoc, Heui-Seok Lim

NerIPS 2021 16th Women in Machine Learning Workshop, 2021

Towards Syntax-Aware Dialogue Summarization using Multi-task Learning

Seolhwa Lee, Kisu Yang, **Chanjun Park**, João Sedoc, Heui-Seok Lim

EMNLP 2021 - Widening NLP (WinLP2021) workshop, 2021

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

Seolhwa Lee, Kisu Yang, **Chanjun Park**, João Sedoc, Heuseok Lim

IEEE Access (2021). IEEE, 2021

Automatic Knowledge Augmentation for Generative Commonsense Reasoning

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

NeurIPS 2021 - Data-centric AI (DCAI) workshop, 2021

Neural Spelling Correction: Translating Incorrect sentences to Correct sentences for Multimedia

Chanjun Park, Kuekyeng Kim, YeongWook Yang, Minho Kang, HeuiSeok Lim

Multimedia Tools and Applications (2020) pp. 1–18. Springer, 2020

Ancient Korean Neural Machine Translation

Chanjun Park, Chanhee Lee, YeongWook Yang, Heuseok Lim

IEEE Access 8 (2020) pp. 116617–116625. 2020

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

Chanjun Park, YeongWook Yang, Chanhee Lee, Heuseok Lim

IEEE Access 8 (2020) pp. 106264–106272. 2020

Decoding Strategies for Improving Low-Resource Machine Translation

Chanjun Park, Yeongwook Yang, Kinam Park, Heuseok Lim

Electronics 9.10 (2020) p. 1562. Multidisciplinary Digital Publishing Institute, 2020

Honors & Awards

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

Selected Research Experience

LLM Modeling

RESEARCHER IN UPSTAGE

Seoul, South Korea

July. 2023. - Present

- Role of Tech Leader in LLM Data and Evaluation
- Data Research for LLM Pretraining and Instruction Finetuning
- Skills: LLM, NLP, Data

(Project) Hanwha Life Insurance LLM Application Project

RESEARCHER IN UPSTAGE

Seoul, South Korea

July. 2023. - Present

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

LLM Application - AskUp Biz

RESEARCHER IN UPSTAGE

Seoul, South Korea

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

Large Language Model (LLM) TF

RESEARCHER IN UPSTAGE

Seoul, South Korea

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
- Skills: LLM, NLP, Data

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 POC 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)

Product Search Pack

Seoul, South Korea

RESEARCHER IN UPSTAGE

March. 2022. - October. 2022

- Develop Product Search Pack
- Establishment of evaluation system to develop Product Search Pack and responsible for data, planning, and evaluation
- Quality Assurance for Search System, Gold Testset Planning
- Press: <https://sedaily.com/NewsView/265XEW0U0Z>
- Skills: Data Manager, User Experience (UX), 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) 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) Return on Advertising Spend (ROAS) Prediction Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

December. 2021. - March. 2022.

- Return on Advertising Spend (ROAS) refers to the ratio of revenue generated by advertising projects to its expense.
- We present a method for predicting ROAS that does not require controlled experiments in data acquisition and validates its effectiveness through comparative experiments. Specifically, we propose a task decomposition method that divides the end-to-end prediction task into the two-stage process; occurrence prediction and occurred ROAS regression.
- Supported by Data voucher
- Publication of research paper in Mathematics (SCIE): <https://www.mdpi.com/2227-7390/10/10/1637>
- Skills: ROAS, Regression, Pytorch

(Project) Hybrid Retriever System for Industrial Frequently Asked Questions Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

December. 2021. - March. 2022.

- We propose a method of returning responses to customer inquiries using only data that can be easily obtained from companies based on the deep learning information retrieval module. In this work, we hybridize dense embedding and sparse embedding to make it robust to professional terms and suggest new functions to scale the results returned by the two modules and adjust the weight ratio.
- Supported by Data voucher
- Publication of research paper in Mathematics (SCIE): <https://www.mdpi.com/2227-7390/10/8/1335>
- Skills: Information Retrieval, Pytorch

Fake News Detection Research

RESEARCHER IN KOREA UNIV

Seoul, South Korea

January, 2022. - Present

- Research for Utilization Strategy of User Engagements in Korean Fake News Detection
- Publication of research paper in IEEE Access (SCIE): <https://ieeexplore.ieee.org/document/9841541>
- Skills: Graph Neural Network, Pytorch, Fairseq

(Project) NAVER PAPAGO - Parallel Corpus Filtering and Mining

RESEARCHER IN KOREA UNIV

Seoul, South Korea

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](https://doi.org/10.1016/j.eswa.2021.115842)
- Supported by NAVER PAPAGO
- Skills: Neural Machine Translation, Parallel corpus filtering, Pytorch, Fairseq

Data-centric AI Research

RESEARCHER IN KOREA UNIV & UPSTAGE

Seoul, South Korea

July, 2021. - Present

- Research for Data-centric Neural Machine Translation, Automatic Post Editing, Quality Estimation, Generative Commonsense Reasoning, LLM
- Publication of 3 research paper in NeurIPS 2021 - Data-centric AI (DCAI) workshop: <https://eval.how/dcai2021/index.html>
- Publication of research paper in ICML 2022 - DataPerf workshop: <https://sites.google.com/view/dataperf2022>
- Publication of 7 research paper in ICML 2023 - Data-centric Machine Learning Research (DMLR): <https://dmlr.ai/>
- Improving Formality-Sensitive Machine Translation using Data-Centric Approaches and Prompt Engineering
- Publication of research paper in IWSLT 2023 : <https://sites.google.com/view/dataperf2022>
- Skills: Neural Machine Translation, Web Application, Fairseq

Korean Commonsense Generation and Reasoning Research

RESEARCHER IN KOREA UNIV

Seoul, South Korea

June, 2021. - Present

- KommonGen: A Dataset for Korean Generative Commonsense Reasoning Evaluation
- Automatic Knowledge Augmentation for Generative Commonsense Reasoning
- Publication of research paper in NAACL 2022: <https://aclanthology.org/2022.findings-naacl.172/>
- Publication of research paper in Knowledge-Based Systems: <https://www.sciencedirect.com/science/article/abs/pii/S0950705122009546>
- Skills: Commonsense Reasoning, Pytorch, Huggingface

Image Retrieval Research

RESEARCHER IN KOREA UNIV

Seoul, South Korea

June, 2021. - September, 2021.

- Grounded Vocabulary for Image Retrieval Using a Modified Multi-Generator Generative Adversarial Network
- Publication of research paper in IEEE Access (SCIE): <https://ieeexplore.ieee.org/document/9585128>
- Skills: Image Retrieval, Pytorch, Huggingface

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

RESEARCHER IN KOREA UNIV

Seoul, South Korea

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

Dialogue Summarization Research

RESEARCHER IN KOREA UNIV

Seoul, South Korea

June, 2021. - December, 2021

- Syntax-Aware Dialogue Summarization using Multi-task Learning
- Skills: Dialogue system, Automatic Summarization, Pytorch, Huggingface
- Publication of research paper in EMNLP 2021 -Widening NLP (WiNLP2021) workshop
- Publication of research paper in NeurIPS 2021 - Women in Machine Learning (WiML 2021) workshop
- Publication of research paper in IEEE Access (SCIE): <https://ieeexplore.ieee.org/abstract/document/9664379/>

Dialogue System Research

RESEARCHER IN KOREA UNIV

Seoul, South Korea

April, 2021. - December, 2021

- Robust Reward Estimator for Multidomain Task-Oriented Dialogue
- Publication of research paper in Applied Science (SCIE): <https://www.mdpi.com/2076-3417/11/14/6624>
- BlenderBot 2.0 Errors Analysis in terms of Model, Data and User-Centric Approach
- Publication of research paper in Arxiv: <https://arxiv.org/abs/2201.03239>
- Focus on FoCus: Is FoCus focused on Context, Knowledge and Persona?
- Publication of research paper in COLING 2022 Workshop: <https://aclanthology.org/2022.ccgpk-1.1.pdf>
- Skills: Dialogue system, Pytorch, Huggingface, ParlAI

(Project) Subtitle production and editing technology development for colloquial broadcasting contents

Seoul, South Korea

RESEARCHER IN KOREA UNIV

April. 2021. - December, 2021.

- Development of Colloquial Aware Neural Machine Translation (CANMT) model that is robust to colloquial expression based on broadcast content
- Consortium: Korea Univ, Hanyang Univ, ON THE IT, SBS Contents Hub, CBS
- Supported by IITP
- Korean Colloquial-Sentence-Splitter(Ko-CSS) for simultaneous speech translation
- Neural Architecture Search(NAS) based NMT Research
- Speech recognition post-processor research
- Cross lingual adaptation research
- Skills: Neural Machine Translation, Automatic Speech Recognition, simultaneous speech translation, Pytorch, Huggingface, Fairseq
- Ko-CSS Demo: <http://nlplab.iptime.org:32285/>

BTS: Speech recognition post-processor Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

January. 2021. - Present

- Proposed BackTranScript(BTS). Back Transcription (BTS) has seen limited success without the role of phonetic transcription for building and creating vast datasets automatically.
- Publication of research paper in WAT 2021 (ACL Workshop): <https://aclanthology.org/2021.wat-1.10/>
- Publication of research paper in Mathematics: <https://www.mdpi.com/2227-7390/10/19/3618>
- Skills: Neural Machine Translation, Pytorch, Huggingface, Fairseq

Cross Lingual Pretrained Language Model Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

January. 2021. - Present

- Research for Exploring the Data Efficiency of Cross-Lingual Post-Training in Pretrained Language Models
- Research for combining BART and Parallel Corpus Filtering
- Publication of research paper in Applied Science (SCIE): <https://www.mdpi.com/2076-3417/11/5/1974>
- Skills: Neural Machine Translation, Pytorch, Huggingface, Fairseq

Automatic Post Editing Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

January. 2021. - Present

- APE research based on Cross Lingual Pretrained Language Model
- Adapter based APE research
- Publication of research paper in IEEE Access (SCIE): <https://ieeexplore.ieee.org/document/9528385/>
- Research for Efficient and Simple Data Generation Method - Low Resource APE and Pseudo APE data generation
- Publication of research paper in IEEE Access (SCIE): <https://ieeexplore.ieee.org/document/9714400>
- Research for Synthetic Data Generation Using Noising Strategies for Automatic Post-editing
- Publication of research paper in LREC 2022: <http://www.lrec-conf.org/proceedings/lrec2022/pdf/2022.lrec-1.93.pdf>
- Skills: Neural Machine Translation, Pytorch, Automatic Post Editing, Huggingface, Fairseq

Quality Estimation Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

January. 2021. - Present

- Large Scale PLM based Quality Estimation development and research
- Low Resource QE and Pseudo QE data generation
- Publication of research paper in Applied Science (SCIE): <https://www.mdpi.com/2076-3417/11/14/6584>
- Publication of research paper in MT Summit 2021 - LoResMT Workshop: <https://aclanthology.org/2021.mtsummit-loresmt.1/>
- Publication of research paper in IEEE Access: <https://ieeexplore.ieee.org/document/9761258>
- Publication of research paper in COLING 2022: <https://aclanthology.org/2022.coling-1.460.pdf>
- 1st place in WMT 2022 QE Task 3: KU X Upstage's submission for the WMT22 Quality Estimation: Critical Error Detection Shared Task
- Skills: Neural Machine Translation, Pytorch, Quality Estimation, OpenKiwi, Huggingface, Fairseq

COVID-19 Machine Translation Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

May. 2020. - November.2020

- Neural Machine translation specialized for COVID-19 domain
- Skills: Neural Machine Translation, Pytorch, Python
- Publication of research paper in Journal of the Korea Convergence Society(KCI): <https://bit.ly/2QgQKlK>

(Project) 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://nlpplab.iptime.org:32245/>

Ancient Korean Neural Machine Translation Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

March. 2020. - December. 2022

- Ancient Korean Neural Machine Translation Research
- Bilingual Word Embedding for Ancient Korean Neural Machine Translation
- Priming Ancient Korean Neural Machine Translation Research
- Publication of research paper in IEEE Access(SCIE): <https://ieeexplore.ieee.org/document/9125904/>
- Publication of research paper in LREC 2022: <http://www.lrec-conf.org/proceedings/lrec2022/pdf/2022.lrec-1.3.pdf>
- Skills: Pytorch, Python, REST API,Flask,Neural Machine Translation

Deep Learning based Grammar Error Correction Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

June. 2019. - June.2020

- Deep learning based English grammar corrector development
- Publication of research paper in IEEE Access(SCIE): <https://ieeexplore.ieee.org/document/9102992>
- Skills: Pytorch, Python, REST API,Flask,Neural Machine Translation

Deep Learning based Korean Spelling Correction Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

June. 2019. - Present

- Development of Korean spelling corrector based on deep learning
- We propose a gold test set, K-NCT (Korean Neural grammar Correction Test set), for Korean grammar error correction and a new error type classification guideline.
- Publication of research paper in multimedia tools and applications (SCIE): <https://link.springer.com/article/10.1007/s11042-020-09148-2>
- Publication of research paper in IEEE Access (SCIE): <https://ieeexplore.ieee.org/document/9938990>
- Skills: Pytorch, Python, REST API,Flask,Neural Machine Translation

Neural Machine Translation Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

June. 2019. - Present

- Deep learning based Korean-English and English-Korean, Korean-Japanese machine translator development
- Research for Parallel Corpus Filtering, Data Augmentation, Various decoding strategies
- Best practices for using NIA AI training data: <http://www.aihub.or.kr/node/4525>
- Publication of research paper in ELECTRONICS (SCIE): <https://www.mdpi.com/2079-9292/9/10/1562#cite>
- Our paper is accepted in NAACL 2021 Industrial Track: "Should we find another model?: Improving Neural Machine Translation Performance with ONE-Piece Tokenization Method without Model Modification"
- How to improve the performance of NMT without changing the model through data pre- and post-processing
- Publication of research paper in NAACL 2021: <https://www.aclweb.org/anthology/2021.naacl-industry.13/>
- Verification of Ensemble Effect in Neural Machine Translation
- Publication of research paper in EMNLP 2021 - Workshop on Insights from Negative Results in NLP: <https://insights-workshop.github.io/2021/cfp/>
- Publication of research paper in Applied Sciences (SCIE): <https://www.mdpi.com/2076-3417/12/11/5545>
- A Survey on Evaluation Metrics for Machine Translation
- Publication of research paper in Mathematics (SCIE): <https://www.mdpi.com/2227-7390/11/4/1006>
- Skills: Pytorch, Python, REST API,Flask,Neural Machine Translation

AI for Education Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

April. 2019. - Present

- FreeTalky: Don't Be Afraid! Conversations Made Easier by a Humanoid Robot using Persona-based Dialogue
- Publication of research paper in AAAI 2022 - Artificial Intelligence for Education (AI4EDU) workshop: <https://arxiv.org/abs/2112.04126>
- Publication of research paper in LREC 2022: <http://www.lrec-conf.org/proceedings/lrec2022/pdf/2022.lrec-1.132.pdf>
- Automatic Essay Scoring Research
- PEEP-Talk: Deep Learning-based English Education Platform for Personalized Foreign Language Learning
- Publication of research paper in ACL 2023 - Demo Track: <https://www.mdpi.com/2227-7390/10/9/1486>
- AI student: A Machine Reading Comprehension System for the Korean College Scholastic Ability Test
- Publication of research paper in Mathematics (SCIE): <https://www.mdpi.com/2227-7390/10/9/1486>
- BERTOEIC: Solving TOEIC Problems Using Simple and Efficient Data Augmentation Techniques with Pretrained Transformer Encoders
- Publication of research paper in Applied Sciences (SCIE) : <https://www.mdpi.com/2076-3417/12/13/6686>
- Skills: Pytorch, Python, Google Cloud Platform, REST API, Nao Toolkit

AI for Accessibility Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

June. 2019. - December. 2022

- PicTalky: Design of augmentative alternative communication (AAC) software for children with developmental disabilities
- 1st Place Microsoft AI Accessibility Hackathon in Korea (Team Lead)
- Award: <https://bit.ly/2vPaZ91>
- PickTalky Demo: <https://pictalky-311.de.r.appspot.com/>
- Publication of research paper in AACL 2022 Demo Track: <https://preview.aclanthology.org/aac1-22-ingestion/2022.aac1-demo.3/>
- Skills: Pytorch, Python, Google Cloud Platform, REST API, Nao Toolkit

(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://hiai.co.kr/>

(Project) Next-generation information computing technology development business

Seoul, South Korea

RESEARCHER IN KOREA UNIV

September. 2019. - January. 2021.

- Development of Core Application Techniques for Korean Intelligent Systems
- Research and development of Korean natural language processing core technology

(Project) 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

Automatic subtitle generation platform service development and planning

Seoul, South Korea

RESEARCHER IN SYSTRAN

June. 2018. - June. 2019

- Development and maintenance of automatic subtitle generation platform
- Establish platform service strategies such as B2B and B2C
- Various company contacts and SWOT analysis
- Skills: JAVA, JAVA FX, Kaldi, Mockup, Strategic Planning, Technology management, Marketing

Planning of English speaking evaluation platform service

Seoul, South Korea

RESEARCHER IN SYSTRAN

June. 2018. - December. 2018

- Establishing a service strategy using English speaking evaluation technology
- English speaking evaluation technology Q.A & Q.C
- Skills: Quality Assurance, Quality control, Mockup, Strategic Planning, Technology management, Marketing

Speech Recognition Research

RESEARCHER IN SYSTRAN

- Research for Automatic Speech Recognition Technology based on Kaldi
- Acoustic Model, Language Model
- Speaker Verification
- English speaking evaluation
- Real-time speech recognition system
- Skills: Kaldi

Seoul, South Korea

Aug. 2018. - July. 2019

Neural Machine Translation Research

RESEARCHER IN SYSTRAN

- Research for Neural Machine Translation
- Skills: OpenNMT Tensorflow, OpenNMT Pytorch

Seoul, South Korea

Aug. 2018. - July. 2019

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

RESEARCHER IN BUFS

- 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)

Seoul, South Korea

Sep. 2016. - June. 2018

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

RESEARCHER IN BUFS

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

Seoul, South Korea

Sep. 2017. - June. 2018

(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

Professional Experience

Upstage

TECH LEADER & AI RESEARCH ENGINEER

- About Upstage: <https://www.upstage.ai/>
- Tech Leader at Large Language Model (LLM) Team
- LLM Modeling & Data
- Establishment of evaluation system to develop LLM Application (AskUp Biz) and responsible for data, planning, and evaluation
- OCR-related DMOPs
- Semantic search project with AMOREPACIFIC
- Semantic search project with LG U+
- Participate in the Product Search Pack, Document AI Pack, and RecSys Pack
- Research for Data-centric AI
- Research for Large Language Model

Seoul, South Korea

March. 2022 - Present

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 speech Recognition Solution Project
- Participated in CJ Logistics speech recognition agent development project
- Participated in Samsung SDS speech recognition 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)
- Governmental project proposal experience
- Reason for leaving: Graduate school

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)

Skills

Programming	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
Full Stack	Html, CSS, Javascript, Java FX, Oracle, MySQL, Spring Boot, VertX, AWS
Product & Project & Data Manager	MS Office, Notion, Slack, Linear, Whimsical, Recuitee, Redmine
Strategy & Planning	API Platform Service, Platform Service Planning, Gravitee IO, Paas, IaaS, Q.A, Q.C, Mockup, Swagger
Etc	Linux, Docker, Web RTC, 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	APPARATUS AND METHOD FOR OUTPUTTING IMAGE CORRESPONDING TO LANGUAGE , Granted Patent (10-2476497)	South Korea
2020.09	METHOD OF TRANSLATING ANCIENT KOREAN USING MACHINE TRANSLATION , Granted Patent (10-2425922)	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 BUILDING TRAINING DATA OF MACHINE TRANSLATION , Granted Patent (10-2409667)	South Korea
2021.03	Improving speech recognition performance using TTS in domain-specific environment , Apply for a patent	South Korea
2021.05	Method For Generating Training Data And Method For Post-Processing Of Speech Recognition Using The Same , 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	DEVICE AND METHOD FOR GENERATING TRAINING DATA FOR AUTOMATIC POST EDITING , Apply for a patent	South Korea
2021.09	METHOD OF BUILDING TRAINING DATA OF MACHINE TRANSLATION , PCT International Application	South Korea
2021.09	APPARATUS FOR CORPUS PROCESSING, APPARATUS AND METHOD AND MATHINE TRANSLATION , Apply for a patent	South Korea
2021.11	DEVICE AND METHOD FOR GENERATING OF TRAINING DATA FOR QUALITY ESTIMATION IN MACHINE TRANSLATION , Apply for a patent	South Korea

Demo

2019.12	Deep Learning based English Grammar Error Correction , http://nlplab.iptime.org:32292/	South Korea
2019.12	Deep Learning based Korean Spelling Correction , http://nlplab.iptime.org:32288/	South Korea
2020.01	Korea University Neural Machine Translation Platform , http://nlplab.iptime.org:32296/	South Korea
2020.02	Neural Symbolic Inference , http://nlplab.iptime.org:32245/	South Korea
2020.02	English Free Talking and Grammar Error Correction Feed Back System using NAO Robot , https://www.youtube.com/watch?v=Rl6dG_4cnFk	South Korea
2020.03	Korean Ancient Neural Machine Translation Platform , http://nlplab.iptime.org:32242/	South Korea
2020.03	PicTalky: Text to Pictogram Demo for Children with Developmental Disabilities , https://pictalky-311.de.r.appspot.com/	South Korea
2020.05	COVID-19 Machine Translation Platform , http://nlplab.iptime.org:32250/	South Korea
2020.07	Ancient Korean Translation & Machine Reading Comprehension with NAO , https://www.youtube.com/watch?v=nXBZe-t9a-4&t=8s	South Korea
2020.11	Bilingual Education Using NAO , https://www.youtube.com/watch?v=4kCMMa62LDY&t=9s	South Korea
2021.04	Ko-CSS (Korean Colloquial-Sentence-Splitter) for simultaneous speech translation , http://nlplab.iptime.org:32285/	South Korea
2021.06	BTS (BackTranScription) for STT Post-Processor , https://backtrans-317413.de.r.appspot.com/	South Korea
2021.09	Translation platform with AIHUB dataset , http://nlplab.iptime.org:32247/	South Korea
2021.09	Con-Talky , http://nlplab.iptime.org:32245/	South Korea
2021.09	Korea University English Grammar Corrector KakaoTalk Channel , http://pf.kakao.com/_cqxkps	South Korea
2021.09	PEEP-Talk , http://pf.kakao.com/_FlDxgs	South Korea
2021.10	A Tool for generating High-Quality Parallel Corpus considering Human Translation Market , http://nlplab.iptime.org:9090/	South Korea
2021.10	A New Tool for Efficiently Generating Quality Estimation Datasets , http://nlplab.iptime.org:9091/	South Korea
2021.11	A Self-Supervised Automatic Post-Editing Data Generation Tool , http://nlplab.iptime.org:9092/	South Korea

Invited Talk & Teaching Experience

Fast Campus

PRESENTER

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

South Korea
August. 2023-Present

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

PRESENTER

- 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)

PRESENTER

- 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

BoostCamp

MASTER (INSTRUCTOR)

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

South Korea

February. 2023-Present

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)

South Korea

July. 2022

Dongguk University

PRESENTER

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

South Korea

January. 2022

Korea University

TEACHING ASSISTANT

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

South Korea

Autumn 2021

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

South Korea

July. 2021

Korea University

HEAD TEACHING ASSISTANT

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

South Korea

Autumn 2020

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

LLsoLLu

PRESENTER

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

South Korea

March. 2020

NC SOFT

PRESENTER

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

South Korea

February. 2020

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

South Korea

January. 2020

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

South Korea

Oct. 2019 - Nov. 2019

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>

South Korea

Aug. 2019

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>

South Korea

Aug. 2019

Sooyoungro Church

INSTRUCTOR

- Sooyoungro Church Dream Bowl School Instructor (Free Service)
- Basic English Grammar and English Conversation Education

South Korea

Aug. 2017 - Dec. 2017

Korea Press Foundation

INSTRUCTOR

- Reading mentoring

South Korea

Aug. 2015 - Dec. 2015

All Publications

PREPRINTS

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

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

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

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, Proceedings of the 20th International Conference on Spoken Language Translation, 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

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

LRG 2022 (Proceedings of the Language Resources and Evaluation Conference), 2022, Marseille, France

Priming Ancient Korean Neural Machine Translation

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

LRG 2022 (Proceedings of the Language Resources and Evaluation Conference), 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 - Proceedings of the 29th International Conference on Computational Linguistics, 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

Focus on FoCuS: Is FoCuS focused on Context, Knowledge and Persona?

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

COLING 2022 - Proceedings of the 1st Workshop on Customized Chat Grounding Persona and Knowledge, 2022

A Self-Supervised Automatic Post-Editing Data Generation Tool

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

ICML 2022 - DataPerf workshop, 2022 (2022). 2022

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

LRG 2022 (Proceedings of the Language Resources and Evaluation Conference), 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

Findings of the Association for Computational Linguistics: NAACL 2022, 2022, Seattle, United States

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 - Proceedings of the 2021 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies: Industry Papers, 2021

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

AAAI 2022 - Artificial Intelligence for Education(AI4EDU) (2021). 2021

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

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

NeurIPS 2021 - Data-centric AI (DCAI) workshop (2021). 2021

Two Heads are Better than One? Verification of Ensemble Effect in Neural Machine Translation

Chanjun Park, Sungjin Park, Seolhwa Lee, Taesun Whang, Heuseok Lim

EMNLP 2021 - Proceedings of the Second Workshop on Insights from Negative Results in NLP, 2021, Online and Punta Cana, Dominican Republic

BTS: Back TranScriptioN for Speech-to-Text Post-Processor using Text-to-Speech-to-Text

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

ACL 2021 - Proceedings of the 8th Workshop on Asian Translation (WAT2021), 2021, Online

Dealing with the Paradox of Quality Estimation

Sugyeong Eo, Chanjun Park, Hyeonseok Moon, Jaehyung Seo, Heuseok Lim, (Equal Contribution (First Co-Author))

MT Summit - Proceedings of the 4th Workshop on Technologies for MT of Low Resource Languages (LoResMT2021), 2021, Virtual

A New Tool for Efficiently Generating Quality Estimation Datasets

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

NeurIPS 2021 - Data-centric AI (DCAI) workshop, 2021

Syntax-enhanced Dialogue Summarization using Syntax-aware information

Seolhwa Lee, Kisu Yang, Chanjun Park, João Sedoc, Heui-Seok Lim

NerIPS 2021 16th Women in Machine Learning Workshop, 2021

Towards Syntax-Aware Dialogue Summarization using Multi-task Learning

Seolhwa Lee, Kisu Yang, Chanjun Park, João Sedoc, Heui-Seok Lim

EMNLP 2021 - Widening NLP (WiNLP2021) workshop, 2021

Automatic Knowledge Augmentation for Generative Commonsense Reasoning

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

NeurIPS 2021 - Data-centric AI (DCAI) workshop, 2021

INTERNATIONAL JOURNAL

A Survey on Evaluation Metrics for Machine Translation

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

Mathematics 11.4 (2023) p. 1006. Multidisciplinary Digital Publishing Institute, 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

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

Chanjun Park, Woo-Young Go, Sugyeong Eo, Hyeonseok Moon, Seolhwa Lee, Heuseok Lim

IEEE Access 10 (2022) pp. 38684–38693. IEEE, 2022

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

The ASR Post-Processor Performance Challenges of BackTranScriptioN (BTS): Data-Centric and Model-Centric Approaches

Chanjun Park, Jaehyung Seo, Seolhwa Lee, Chanhee Lee, Heuseok Lim

Mathematics 10.19 (2022). 2022

Empirical Analysis of Parallel Corpora and In-Depth Analysis Using LIWC

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

Applied Sciences 12.11 (2022) p. 5545. Multidisciplinary Digital Publishing Institute, 2022

Word-level Quality Estimation for Korean-English Neural Machine Translation

Sugyeong Eo, Chanjun Park, Hyeonseok Moon, Jaehyung Seo, Heuseok Lim, (Equal Contribution (First Co-Author))

IEEE Access 10 (2022) pp. 44964–44973. IEEE, 2022

Research on Utilization Strategy of User Engagements in Korean Fake News Detection

Myunghoon Kang, Jaehyung Seo, Chanjun Park, Heuseok Lim

IEEE Access (2022) pp. 1–1. 2022

AI Student: A Machine Reading Comprehension System for the Korean College Scholastic Ability Test

Gyeongmin Kim, Soomin Lee, Chanjun Park, Jaecheon Jo

Mathematics 10.9 (2022) p. 1486. Multidisciplinary Digital Publishing Institute, 2022

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

Seonmin Koo, Chanjun Park, Jaehyung Seo, Seungjun Lee, Hyeonseok Moon, Jungseob Lee, Heuseok Lim, (Equal Contribution (First Co-Author))

IEEE Access (2022). IEEE, 2022

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

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

Applied Sciences 12.13 (2022) p. 6686. Multidisciplinary Digital Publishing Institute, 2022

An Automatic Post Editing with Efficient and Simple Data Generation Method

Hyeonseok Moon, Chanjun Park, Jaehyung Seo, Sugyeong Eo, Heuseok Lim, (Equal Contribution (First Co-Author))

IEEE Access (2022). IEEE, 2022

Return on Advertising Spend Prediction with Task Decomposition-Based LSTM Model

Hyeonseok Moon, Taemin Lee, Jaehyung Seo, Chanjun Park, Sugyeong Eo, Imatitkua D Aiyanyo, Jeongbae Park, Aram So, Kyoungwha Ok, Kinam Park

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 Aiyanyo, Kinam Park, Aram So, Sungmin Ahn, Jeongbae Park

Mathematics 10.8 (2022) p. 1335. MDPI, 2022

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 10 (2022) pp. 107587–107597. 2022

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, Heuiseok Lim

Knowledge-Based Systems (2022) p. 109861. Elsevier, 2022

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

Junyoung Son, Hyeonseok Moon, Jeongwoo Lee, Seolhwa Lee, **Chanjun Park**, Wonkyung Jung, Heuiseok Lim

IEEE Access 10 (2022) pp. 59205–59218. IEEE, 2022

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

Sugyeong Eo, **Chanjun Park**, Hyeonseok Moon, Jaehyung Seo, Heuiseok Lim, **(Equal Contribution (First Co-Author))**

Applied Sciences 11.14 (2021) p. 6584. Multidisciplinary Digital Publishing Institute, 2021

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

Kuekyeng Kim, **Chanjun Park**, Jaehyung Seo, Heuiseok Lim

IEEE Access (2021). IEEE, 2021

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 11.5 (2021) p. 1974. Multidisciplinary Digital Publishing Institute, 2021

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

Seolhwa Lee, Kisu Yang, **Chanjun Park**, João Sedoc, Heuiseok Lim

IEEE Access (2021). IEEE, 2021

An Empirical Study on Automatic Post Editing for Neural Machine Translation

Hyeonseok Moon, **Chanjun Park**, Sugyeong Eo, Jaehyung Seo, Heuiseok Lim, **(Equal Contribution (First Co-Author))**

IEEE Access 9 (2021) pp. 123754–123763. IEEE, 2021

Variational Reward Estimator Bottleneck: Towards Robust Reward Estimator for Multidomain Task-Oriented Dialogue

Jeiyeon Park, Chanhee Lee, **Chanjun Park**, Kuekyeng Kim, Heuiseok Lim

Applied Sciences 11.14 (2021) p. 6624. Multidisciplinary Digital Publishing Institute, 2021

Neural Spelling Correction: Translating Incorrect sentences to Correct sentences for Multimedia

Chanjun Park, Kuekyeng Kim, YeongWook Yang, Minh Kang, Heuiseok Lim

Multimedia Tools and Applications (2020) pp. 1–18. Springer, 2020

Ancient Korean Neural Machine Translation

Chanjun Park, Chanhee Lee, YeongWook Yang, Heuiseok Lim

IEEE Access 8 (2020) pp. 116617–116625. 2020

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

Chanjun Park, YeongWook Yang, Chanhee Lee, Heuiseok Lim

IEEE Access 8 (2020) pp. 106264–106272. 2020

Decoding Strategies for Improving Low-Resource Machine Translation

Chanjun Park, Yeongwook Yang, Kinam Park, Heuiseok Lim

Electronics 9.10 (2020) p. 1562. Multidisciplinary Digital Publishing Institute, 2020

INTERNATIONAL CONFERENCE

Enhancing Relation Extraction with Triple Representation

Chanjun Park, Sugyeong Eo, Yoonna Jang, Jungseob Lee, Aram So, Heuiseok Lim

International Conference on Information, System and Convergence Applications (ICISCA 2023), 2023

Prompt-based Learning for English-German Critical Translation Error Detection

Sugyeong Eo, **Chanjun Park**, Heuiseok Lim

International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2022), 2022

A Dataset for Korean Graph-to-Text Generation

Dahyun Jung, Lee. Seungyeon, SeungJun Lee, Sugyeong Eo, **Chanjun Park**, Danielle Aiyanyo Imatitikua

International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2022), 2022

Masked language modeling-based Korean Data Augmentation Techniques Using Label Correction

Myunghoon Kang, Jungseob Lee, SeungJun Lee, Hyeonseok Moon, **Chanjun Park**, Aram So

International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2022), 2022

Automatic Generation of Learning Data for Korean Speech Recognition Post-Processor

Seomin Koo, **Chanjun Park**, Hyeonseok Moon, Jaehyung Seo, Sugyeong Eo, Heuiseok Lim

International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2022), 2022

Fortune Telling via Deep Learning based Generation Model

Hyeonseok Moon, Jungseob Lee, Jaehyung Seo, Sugyeong Eo, **Chanjun Park**, Jeongbae Park

International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2022), 2022

Efficient Way for Constructing Hate Speech-Counter Narrative Dataset

Lee, Seungyoon, Suhhyune Son, Dahyun Jung, **Chanjun Park**, Yuna Hur

International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2022), 2022

A Study on Jeju Dialect ASR processor using BackTranScription

Chanjun Park, Jaehyung Seo, Seolhwa Lee, Heonseok Moon, Sugyeong Eo, Yoonna Jang, HeuiSeok Lim

International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2021), 2021

Cross-lingual Zero-shot Transfer for Quality Estimation

Sugyeong Eo, **Chanjun Park**, Jaehyung Seo, Heonseok Moon, HeuiSeok Lim

International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2021), 2021

Proposal of Automatic Essay Scoring Method Using 4-level Natural Language Analysis

Yujin Kim, **Chanjun Park**, Seolhwa Lee, HeuiSeok Lim

International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2021), 2021

Error Type Categorization Criteria for Korean Spelling Correction

Seonmin Koo, **Chanjun Park**, HeuiSeok Lim

International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2021), 2021

A High-level Machine Reading Comprehension Model

Jeongwoo Lee, Hyeonseok Moon, **Chanjun Park**, HeuiSeok Lim

International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2021), 2021

Comparative study of Korean speech recognition based on SpecAugment and Kaldi

Seounghoon Lee, **Chanjun Park**, Jaehyung Seo, Gyeongmin Kim, HeuiSeok Lim

International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2021), 2021

Context Detector: Persona Based Natural Conversation using Conversational Agent

Seungjun Lee, Yoonna Jang, **Chanjun Park**, HeuiSeok Lim

International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2021), 2021

Domain Specialized Automatic Post Editing System

Heonseok Moon, **Chanjun Park**, Jaehyung Seo, Sugyeong Eo, HeuiSeok Lim

International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2021), 2021

Korean Generative Commonsense Reasoning

Jaehyung Seo, **Chanjun Park**, Heonseok Moon, Sugyeong Eo, HeuiSeok Lim

International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2021), 2021

AI for Construction: Development of communication platform for construction field using Natural Language Processing

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

International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2021), 2021

Categorization of Common Error Types in the Off-the-shelf ASR systems for Korean

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

International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2021), 2021

A Comparative Study on Korean Relation Extraction with entity position information

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

International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2021), 2021

PicTalky: Deep learning-based speech therapy platform for developmental disabilities

Chanjun Park, Yanghee Kim, Yoonna Jang, Umadevi G.R, HeuiSeok Lim

The International Conference on Big data, IoT, and Cloud Computing, 2020

Domain-specialize Neural Machine Translation Methodology

Chanjun Park, HeuiSeok Lim

International conference on Interdisciplinary research on Computer Science, Psychology, and Education, 2020

Toward High Quality Parallel Corpus Using Monolingual Corpus

Chanjun Park, Youngdae Oh, Jongkeun Choi, Dongpil Kim, HeuiSeok Lim

The 10th International Conference on Convergence Technology, 2020

Data Augmentation Method for Korean Neural Machine Translation

Chanjun Park, Kinam Park, HeuiSeok Lim

INTERNATIONAL CONFERENCE ON INFORMATION, SYSTEM AND CONVERGENCE APPLICATIONS, 2020

Self- Supervised Korean Spelling Correction via Denoising Transformer

Chanjun Park, Sungjin Park, HeuiSeok Lim

INTERNATIONAL CONFERENCE ON INFORMATION, SYSTEM AND CONVERGENCE APPLICATIONS, 2020

Can artificial intelligence translate the Annals of the Joseon Dynasty ?

Chanjun Park, Sungjin Park, Kinam Park, Jaechoon Jo, HeuiSeok Lim

The 10th International Conference on Convergence Technology, 2020

Design Neural Machine Translation Model Combining External Symbolic Knowledge in translation task

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

International conference on Interdisciplinary research on Computer Science, Psychology, and Education, 2020

Free Talking NAO Robot for Children

Chanjun Park, Jaekue Choi, Sungjin Park, Yanghee Kim, HeuiSeok Lim

International conference on Interdisciplinary research on Computer Science, Psychology, and Education, 2019

Improved Machine Translation Performance Using Two Stage Subword Tokenization

Chanjun Park, Sora Choi, HeuiSeok Lim

International conference on Interdisciplinary research on Computer Science, Psychology, and Education, 2019

Quality before Quantity: Improved Machine Translation performance using parallel corpus filtering

Chanjun Park, Seunggyu Han, HeuiSeok Lim

International conference on Interdisciplinary research on Computer Science, Psychology, and Education, 2019

Improved Machine Translation Performance Using Relative Ratio of Original and Synthetic Corpus

Chanjun Park, Jang Mook Kang

International conference on Interdisciplinary research on Computer Science, Psychology, and Education, 2019

DOMESTIC JOURNAL

Policy-based performance comparison study of Real-time Simultaneous Translation

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

Journal of the Korea Convergence Society 13.3 (2022) pp. 43–54. Korea Convergence Society, 2022

Error Analysis of Recent Conversational Agent-based Commercialization Education Platform

Seungjun Lee, **Chanjun Park**, Jaehyung Seo, Heuiseok Lim

Journal of the Korea Convergence Society 13.3 (2022) pp. 11–22. Korea Convergence Society, 2022

Deep Learning based Korean Dialect Machine Translation Research Considering Linguistics Features and Service

Sangbeom Lim, **Chanjun Park**, Yeongwook Yang

Journal of the Korea Convergence Society 13.2 (2022) pp. 21–29. Korea Convergence Society, 2022

Korean and Multilingual Language Models Study for Cross-Lingual Post-Training (XPT)

SuhYune Son, **Chanjun Park**, Jungseob Lee, Midan Shim, Chanhee Lee, Heuiseok Lim

Journal of the Korea Convergence Society 13.3 (2022) pp. 77–89. Korea Convergence Society, 2022

A study on performance improvement considering the balance between corpus in Neural Machine Translation

Chanjun Park, Kinam Park, Sugyeong Eo, Hyeonseok Moon, HeuiSeok Lim

Journal of the Korea Convergence Society 12.5 (2021) pp. 23–29. Korea Convergence Society, 2021

A Study on Verification of Back TranScript(BTS)-based Data Construction

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

Journal of the Korea Convergence Society 12.11 (2021) pp. 109–117. Korea Convergence Society, 2021

Research on Subword Tokenization of Korean Neural Machine Translation and Proposal for Tokenization Method to Separate Jong-sung from Syllables

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

Journal of the Korea Convergence Society 12.3 (2021) pp. 1–7. Korea Convergence Society, 2021

Research on Recent Quality Estimation

Sugyeong Eo, **Chanjun Park**, Hyeonseok Moon, Jaehyung Seo, HeuiSeok Lim

Journal of the Korea Convergence Society 12.7 (2021) pp. 37–44. Korea Convergence Society, 2021

Study on Zero-shot based Quality Estimation

Sugyeong Eo, **Chanjun Park**, Jaehyung Seo, Hyeonseok Moon, Heuiseok Lim

Journal of the Korea Convergence Society 12.11 (2021) pp. 35–43. Korea Convergence Society, 2021

Classification and analysis of error types for deep learning-based Korean spelling correction

Seonmin Koo, **Chanjun Park**, Aram So, Heuiseok Lim

Journal of the Korea Convergence Society 12.12 (2021) pp. 65–74. Korea Convergence Society, 2021

Empirical study on BlenderBot 2.0's errors analysis in terms of model, data and dialogue

Jungseob Lee, SuhYune Son, Midan Shim, Yujin Kim, **Chanjun Park**, Aram So, Jeongbae Park, Heuiseok Lim

Journal of the Korea Convergence Society 12.12 (2021) pp. 93–106. Korea Convergence Society, 2021

Filter-mBART Based Neural Machine Translation Using Parallel Corpus Filtering

Hyeonseok Moon, **Chanjun Park**, Sugyeong Eo, JeongBae Park, HeuiSeok Lim

Journal of the Korea Convergence Society 12.5 (2021) pp. 1–7. Korea Convergence Society, 2021

Recent Automatic Post Editing Research

Hyeonseok Moon, **Chanjun Park**, Sugyeong Eo, Jaehyung Seo, HeuiSeok Lim

Journal of Digital Convergence 19.7 (2021) pp. 199–208. Journal of Digital Convergence, 2021

The Verification of the Transfer Learning-based Automatic Post Editing Model

Hyeonseok Moon, **Chanjun Park**, Sugyeong Eo, Jaehyung Seo, Heuiseok Lim

Journal of the Korea Convergence Society 12.10 (2021) pp. 27–35. Korea Convergence Society, 2021

Study on Decoding Strategies in Neural Machine Translation

Jaehyung Seo, **Chanjun Park**, Sugyeong Eo, Hyeonseok Moon, Heuiseok Lim

Journal of the Korea Convergence Society 12.11 (2021) pp. 69–80. Korea Convergence Society, 2021

Cross-Validated Ensemble Methods in Natural Language Inference

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

Journal of KIISE 48.2 (2021) pp. 154–159. Korean Institute of Information Scientists and Engineers (KIISE), 2021

Neural Machine translation specialized for Coronavirus Disease-19 (COVID-19)

Chanjun Park, Kyeong-Hee Kim, Ki-Nam Park, Heui-Seok Lim

Journal of the Korea Convergence Society 11.9 (2020) pp. 7–13. Korea Convergence Society, 2020

An AI Service to support communication and language learning for people with developmental disability

Chanjun Park, Yanghee Kim, Yoonna Jang, Umadevi G.R, HeuiSeok Lim

Automatic Post Editing Research

Chanjun Park, HeuiSeok Lim

Journal of the Korea Convergence Society 11.5 (2020) pp. 1–8. 2020

A Study on the Performance Improvement of Machine Translation Using Public Korean-English Parallel Corpus

Chanjun Park, HeuiSeok Lim

Journal of Digital Convergence 18.6 (2020) pp. 271–277. 2020

DOMESTIC CONFERENCE

Prompt Based Machine Translation

Chanjun Park

Korea Computer Congress 2023, 2023

A Study on Data Quality Estimation Using Inter Annotator Agreement(IAA) in Data Management Operations(DMOps)

Damrin Kim, NamHyeok Kim, **Chanjun Park**, Harksoo Kim

Korea Computer Congress 2023, 2023

Are Vector Size and Response Time Proportional?: Empirical Study of Response Time according to Index Type in Semantic Search

Chanjun Park, Eujeong Choi, Dayone Suh Suh, Minjeong Kim, Suwon Shin, Juhwan Yoon, Seungwon Jeong, Jaekyoung Bae

Korea Software Congress 2022 (2022) pp. 350–352. 2022

Is Modeling Essential for Model Improvement? Encoder performance improvement through a Data-Centric Approach

Seungwon Jeong, Suwan Kim, **Chanjun Park**

Korea Software Congress 2022 (2022) pp. 377–379. 2022

BackTranScripton (BTS)-based Jeju Automatic Speech Recognition Post-processor Research

Chanjun Park, Jaehyung Seo, Seolhwa Lee, Heonseok Moon, Sugyeong Eo, Yoonna Jang, HeuiSeok Lim

The 33rd Annual Conference on Human Cognitive Language Technology, 2021

Word-level Korean-English Quality Estimation

Sugyeong Eo, **Chanjun Park**, Jaehyung Seo, Heonseok Moon, HeuiSeok Lim

The 33rd Annual Conference on Human Cognitive Language Technology, 2021

Persona-based Korean Conversational Model

Yoonna Jang, Jungwoo Lim, Yuna Hur, Kisu Yang, **Chanjun Park**, Jaehyung Seo, Seungjun Lee, HeuiSeok Lim

The 33rd Annual Conference on Human Cognitive Language Technology, 2021

Proposal of Automated Essay Scoring Method based on Deep-Learning

Yujin Kim, **Chanjun Park**, Seolhwa Lee, HeuiSeok Lim

The 33rd Annual Conference on Human Cognitive Language Technology, 2021

Error Type Categorization for deep learning-based Korean Spelling Correction

Seonmin Koo, **Chanjun Park**, HeuiSeok Lim

Korea Software Congress 2018 (2021) pp. 1279–1281. 2021

Model Training and Data Augmentation Schemes For the High-level Machine Reading Comprehension

Jeongwoo Lee, Hyeonseok Moon, **Chanjun Park**, HeuiSeok Lim

The 33rd Annual Conference on Human Cognitive Language Technology, 2021

Comparative study of Korean speech recognition based on SpecAugment and Kaldi

Seounghoon Lee, **Chanjun Park**, Jaehyung Seo, Gyeongmin Kim, HeuiSeok Lim

The 33rd Annual Conference on Human Cognitive Language Technology, 2021

PEEP-Talk: Deep Learning-based English Education Platform for Personalized Foreign Language Learning (Best Paper Award)

Seungjun Lee, Yoonna Jang, **Chanjun Park**, Minwoo Kim, Bernardo N Yahya, HeuiSeok Lim

The 33rd Annual Conference on Human Cognitive Language Technology, 2021

Deep Learning based Korean Dialect Machine Translation Research

Sangbeom Lim, **Chanjun Park**, Jaechoon Jo, Yeongwook Yang

The 33rd Annual Conference on Human Cognitive Language Technology, 2021

Verification of the Domain Specialized Automatic Post Editing Model

Heonseok Moon, **Chanjun Park**, Jaehyung Seo, Sugyeong Eo, HeuiSeok Lim

The 33rd Annual Conference on Human Cognitive Language Technology, 2021

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

The 33rd Annual Conference on Human Cognitive Language Technology, 2021

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

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

The 33rd Annual Conference on Human Cognitive Language Technology, 2021

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

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

The 33rd Annual Conference on Human Cognitive Language Technology, 2021

A Comparative Study on Korean Relation Extraction with entity position information

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

The 33rd Annual Conference on Human Cognitive Language Technology, 2021

Attention Patterns and Semantics of Korean Language Models

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

The 33rd Annual Conference on Human Cognitive Language Technology, 2021

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

Chanjun Park, Yeonsu Lee, Chanhee Lee, HeuiSeok Lim

The 32st Annual Conference on Human Cognitive Language Technology, 2020

Alleviation of Overcorrection Problem in Neural Korean Spelling Correction

Chanjun Park, Yeonsu Lee, Kisu Yang, HeuiSeok Lim

The 32st Annual Conference on Human Cognitive Language Technology, 2020

Design Neural Machine Translation Model Combining External Symbolic Knowledge

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

The 32st Annual Conference on Human Cognitive Language Technology, 2020

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

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

The 32st Annual Conference on Human Cognitive Language Technology, 2020

MMA: Multi-modal Message Aggregation for Korean VQA

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

The 32st Annual Conference on Human Cognitive Language Technology, 2020

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

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

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 30st 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 NLP AI Lab**

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

Operate Naver's natural language processing blog

BLOGGER

- 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
- Today's CCM

South Korea

2016.Dec-Present

OpenNMT Forum Members

MEMBERS

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

South Korea

2019.July-2019.July

ETRI's machine translation quality evaluator

ESTIMATOR

- Quality evaluation of machine translation hosted by ETRI

South Korea

2019.October-2019.December

Completion of basic curriculum for natural language processing and language intelligence

STUDENT

- Korea University Human-Inspired AI & Computing Research Center

South Korea

2019.July-2019.July

Completed the natural language processing tutorial (2016-2019)

STUDENT

- Special Interest Group of Human and Cognitive Language Technology

South Korea

2016 - 2019

Reporter, Korea Electronics and Telecommunications Research Institute (ETRI)

REPORTER

- Served as 3rd and 4th reporters at the Korea Electronics and Telecommunications Research Institute

South Korea

2016.Feb-2018.Feb

Flitto Supporters

SUPPORTERS

- The first plito supporters

South Korea

2017.Dec-2017.Dec

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

Planning a video lecture for Natural Language Processing Basic at BUFS

PLANNER

- URL: <https://bit.ly/2NmFJV1>

South Korea

2016.July-2016.July

BIT Computer Advanced Course Completion

STUDENT

- Bet Advanced Course Completion and Bet 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