

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

## Selected Research Experience

<b>LLM Modeling</b>	Seoul, South Korea
RESEARCHER IN UPSTAGE	July. 2023. - Present
<ul style="list-style-type: none"><li>• Role of Tech Leader in LLM Data and Evaluation</li><li>• Data Research for LLM Pretraining and Instruction Finetuning</li><li>• Skills: LLM, NLP, Data</li></ul>	
<b>(Project) Hanwha Life Insurance LLM Application Project</b>	Seoul, South Korea
RESEARCHER IN UPSTAGE	July. 2023. - Present
<ul style="list-style-type: none"><li>• Development of an Insurance-Specialized Conversational QA System based on LLM</li><li>• Responsible for designing LLM evaluation</li><li>• Skills: LLM, NLP, Data</li></ul>	
<b>LLM Application - AskUp Biz</b>	Seoul, South Korea
RESEARCHER IN UPSTAGE	June. 2023. - Present
<ul style="list-style-type: none"><li>• Research for Large Language Model (LLM) based 3rd Party Platform (LLM Applications)</li><li>• Responsible for LLM evaluation</li><li>• AskUp Seargest, AskUp QA</li><li>• Skills: Data-Centric AI, LLM, NLP, Search</li></ul>	
<b>Large Language Model (LLM) TF</b>	Seoul, South Korea
RESEARCHER IN UPSTAGE	June. 2023. - July. 2023.
<ul style="list-style-type: none"><li>• Research for Large Language Model (LLM)</li><li>• Participate Hugging Face Open LLM Leaderboard</li><li>• As of July 20, 2023, achieved first place worldwide</li><li>• Skills: LLM, NLP, Data</li></ul>	

## 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](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://bit.ly/3K8VCM2)
- 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

<b>Programming</b>	Python, JAVA, C / C++
<b>Machine Learning &amp; Deep Learning</b>	Pytorch, Pytorch lightning, Keras, Tensorflow, Huggingface, OpenNMT, Fairseq, Kaldi, FAISS
<b>Natural Language Processing</b>	Large Language Model, Data-Centric AI, Machine Translation, Speech Recognition, Information Retrieval
<b>Full Stack</b>	Html, CSS, Javascript, Java FX, Oracle, MySQL, Spring Boot, VertX, AWS
<b>Product &amp; Project &amp; Data Manager</b>	MS Office, Notion, Slack, Linear, Whimsical, Recruitee, Redmine
<b>Strategy &amp; Planning</b>	API Platform Service, Platform Service Planning, Gravitee IO, Paas, IaaS, Q.A, Q.C, Mockup, Swagger
<b>Etc</b>	Linux, Docker, Web RTC, Latex
<b>Language Skills</b>	Korean, English, Japanese, Thai, Myanmar

## Patents

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

## Demo

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

## Invited Talk & Teaching Experience

### Google I/O Extended 2023 Incheon

South Korea

PRESENTER

August. 2023

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

### Google I/O Extended 2023 Seoul

South Korea

PRESENTER

July. 2023

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

### TensorFlow Korea LLM Day

South Korea

PRESENTER

July. 2023

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

### Jeju National University

South Korea

PRESENTER

July. 2023

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

### AI Education Alliance Policy lab (AIEDAP)

South Korea

PRESENTER

June. 2023

- Deep Learning Understanding and Practice
- Invited by AIEDAP

### KIDA (Korea Institute for Defense Analysis)

South Korea

PRESENTER

May. 2023

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

### Upstage

South Korea

PRESENTER

April. 2023

- NLP based Large Language Model for All

## BoostCamp

MASTER (INSTRUCTOR)

- Course Name: Data-centric NLP
- HomePage: [https://boostcamp.connect.or.kr/program\\_ai.html](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](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](https://github.com/Parkchanjun/SKC_Text_Preprocessing)
- Lecture materials(Introduction of Machine Translation): [https://github.com/Parkchanjun/SKC\\_MachineTranslation](https://github.com/Parkchanjun/SKC_MachineTranslation)

## 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>

## 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>

## Sooyoungro Church

### INSTRUCTOR

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

## Korea Press Foundation

### INSTRUCTOR

- Reading mentoring

South Korea

Oct. 2019 - Nov.2019

South Korea

Aug. 2019

South Korea

Aug. 2019

South Korea

Aug. 2017 - Dec.2017

South Korea

Aug. 2015 - Dec.2015

# All Publications

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## 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

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### DMOps: Data Management Operation and Recipes

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**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

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

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**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

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**Priming Ancient Korean Neural Machine Translation**

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

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

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

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## **Word-level Korean-English Quality Estimation**

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

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

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

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**Comparative Study of Sentiment Analysis Model based on Korean Linguistic Characteristics**

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

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

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

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**Chanjun Park**, Jin-hyuk Choi, Pummo Ryu

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

*Korea Software Congress 2018*, 2018

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*Korea Software Congress 2018*, 2018

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*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

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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