338, Gwanggyojungang-ro, Suji-gu, Yongin-si, Gyeonggi-do, Republic of Korea □ (+82) 10-2580-9066 | **□** chanjun.park@upstage.ai / bcj1210@naver.com | **□** parkchanjun | **□** bcj1210

Research Interests_

I am currently working as an AI Research Engineer at Upstage. Also I am a Ph.D candidate in the Department of Computer Science and Engineering at Korea University (Advisor: Heuiseok Lim). I am the founder and leader of KU-NMT Group. I received Naver Ph.D. Fellowship 2021. I have published more than 140 papers in the field of Natural Language Processing, especially Machine Translation. I have registered 5 patents and applied for 13 patents.

- · Data-centric Al
- · Machine Translation
- · Language Resource and Evaluation
- Real-World-centric AI

Education

Korea University Seoul, South Korea

Ph.D in Computer Science and Engineering, GPA: 4.44 / 4.5 Sep. 2019 - Aug.2023

Busan, South Korea

Mar. 2015 - Aug. 2018

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

Busan University of Foreign Studies (BUFS)

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

· Advisor: Pummo Rvu Full Scholarship

Academic Services

COLING 2022 South Korea

Sep.2021-Present VIRTUAL SOCIAL CHAIR

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

Program committe South Korea

PROGRAM COMMITTE January.2021-Present

ACL 2023-Industry Track, EACL 2023, EACL 2023-Insights, ACL 2022-Insights, NAACL 2022-Industry Track, ARR (ACL 2022, NAACL 2022)

Reviewer South Korea

REVIEWER January.2021-Present

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

Selected Publications

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

CHANJUN, PARK · CURRICULUM VITAE

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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok Lim

IEEE Access (2021). IEEE, 2021

Automatic Knowledge Augmentation for Generative Commonsense Reasoning

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

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

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

Chanjun Park, Kuekyeng Kim, Yeong Wook Yang, Minho Kang, Heui Seok Lim

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

Honors & Awards __

2	023.02	Best Paper Award, Korea University	South Korea
2	023.02	Research Encouragement Scholarship, Korea University	South Korea
2	2022.12	1st place in WMT 2022 QE Task 3, 2022 , WMT 2022 - EMNLP 2022	Abu Dhabi
2	2022.10	Best Paper Award, 2022, The 34th Annual Conference on Human & Cognitive Language Technology (HCLT2022)	South Korea
2	2021.12	Naver Ph.D. Fellowship, 2021, Naver	South Korea
2	2021.10	Best Paper Award (NLP Application 2 Section), 2021, The 33rd Annual Conference on Human & Cognitive Language Technology (HCLT2021)	South Korea
2	2021.10	Best Paper Award (Language Resource Section), 2021, The 33rd Annual Conference on Human & Cognitive Language Technology (HCLT2021)	South Korea
2	2021.10	Best Paper Award (QA and Speech Section), 2021, The 33rd Annual Conference on Human & Cognitive Language Technology (HCLT2021)	South Korea
2	2021.07	Ranked 4th on the CommonGen 1.1 Leaderboard (Nov. 2022 Ranked 7th, CommonGen 1.1), CommonGen 1.1	South Korea
2	2020.11	1st Place in Flitto Hackathon (Team Lead), 2020, Flitto	South Korea
2	2020.10	Best Paper Award, 2020, The 32nd Annual Conference on Human & Cognitive Language Technology (HCLT2020)	South Korea
2	020.05	Best practices for using NIA AI training data(Korean-English Neural Machine Translation model), AI Hub	South Korea
2	2019.10	Best Paper Award, 2019, The 31st Annual Conference on Human & Cognitive Language Technology (HCLT2019)	South Korea
2	2019.10	1st Place Microsoft AI Accessibility Hackathon in Korea (Team Lead) , Microsoft	South Korea
2	019.03	Graduate School Associate Scholarship , Sungkyunkwan University	South Korea
2	2018.10	Next Generation Information Processing NLP Competition 2018: Participation Award , Next-generation information computing technology development business	South Korea
2	2017.06	Bit Computer Excellence Award (President Award), Bit Computer	South Korea
20)15-2019	Full Scholarship, BUFS	South Korea
20)16-2017	Scholarship for academic excellence, Sooyoungro Church	South Korea

Selected Research Experience

Data Strategy & Planning

Seoul, South Korea

February. 2023. - Present

RESEARCHER IN UPSTAGE

- Research for Data-centric Al
- · Research on prompt engineering
- Planning and building datasets for developing new models
- Creating various content related to Data-Centric Al
- Planning for Data Measurement based on Data Flywheel (developing data evaluation metrics)
- Planning for building a data ecosystem based on the human feedback loop
- Skills: Data-centric AI, DataOps, OCR

DataOps and Data Management

Seoul, South Korea June. 2022. - Present

RESEARCHER IN UPSTAGE

- DataOps research related to OCR and Product Search
- Building training and evaluation data for OCR and Product Search
- Data Management for OCR and Product Search.
- Skills: Data Management, DataOps, OCR, Product Search

CHANJUN. PARK · CURRICULUM VITAE

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

Seoul, South Korea

RESEARCHER IN ELEUTHER AI September. 2022. - Present

- · 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) LGU + VOD Search POC Project

Seoul, South Korea

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.
- Skills: Customer Experience (CX), Quality Assurance (QA)

(Project) Amorepacific Search commercialization Project

Seoul, South Korea March. 2022. - June.2022

RESEARCHER IN UPSTAGE

RESEARCHER IN UPSTAGE

- 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
- Skills: Data Manager, User Experience (UX), Customer Experience (CX), Quality Assurance (QA)

(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

December, 2021. - March, 2022.

RESEARCHER IN KOREA UNIV

- 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 deposition 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

RESEARCHER IN KOREA UNIV

- Publication of research paper in Mathematics (SCIE): https://www.mdpi.com/2227-7390/10/8/1335
- · Skills: Information Retrieval, Pytorch

Fake News Detection Research

Seoul, South Korea

• Research for Utilization Strategy of User Engagements in Korean Fake News Detection

- RESEARCHER IN KOREA UNIV January. 2022. - Present
- Publication of research paper in IEEE Access (SCIE): https://ieeexplore.ieee.org/document/9841541
- · Skills: Graph Nerual Network, Pytorch, Fairseq

Simultaneous Speech Translation Research

Seoul, South Korea

December. 2021. - Present

- Research for Simultaneous Speech Translation for MCN Market
- Skills: Neural Machine Translation, Pytorch, Fairseq

(Project) NAVER PAPAGO - Parallel Corpus Filtering and Mining

Seoul. South Korea

December, 2021, - June, 2022, RESEARCHER IN KORFA UNIV

- · Research for Static and Dynamic Parallel Corpus Filtering and Mining
- Human-inspired curriculum learning based NMT
- · Supported by NAVER PAPAGO
- · Skills: Neural Machine Translation, Parallel corpus filtering, Pytorch, Fairseq

Data-centric Neural Machine Translation Research

Seoul, South Korea

RESEARCHER IN KORFA UNIV

July. 2021. - December. 2021.

- Research for Data-centric Neural Machine Translation, Automatic Post Editing, Quality Estimation, Generative Commonsense Reasoning
- · Develop Efficient tool for building high quality parallel corpus and A New Tool for Efficiently Generating Quality Estimation Datasets and A Self-Supervised Automatic Post-Editing Data Generation Tool
- 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
- Skills: Neural Machine Translation, Web Application, Fairseq

Korean Commonsense Generation and Reasoning Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

- 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

Seoul, South Korea

RESEARCHER IN KOREA UNIV

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

Seoul, South Korea

RESEARCHER IN KOREA UNIV

June. 2021. - December. 2021.

- Al 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

Seoul, South Korea

RESEARCHER IN KOREA UNIV

June. 2021. - Present

- 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 January. 2021. - Present

RESEARCHER IN KOREA UNIV

- Proposed BackTranScription(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

January. 2021. - Present

- APE research based on Cross Lingual Pretrained Language Model
- Adpater based APE research

RESEARCHER IN KOREA UNIV

- 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 January. 2021. - Present

RESEARCHER IN KOREA UNIV

- Large Scale PLM based Quality Estimation development and research
- Low Resource QE and Pseudo QE data generation
- $\bullet \ \ \text{Publication of research paper in Applied Science (SCIE): } \\ \textbf{https://www.mdpi.com/2076-3417/11/14/6584} \\ \textbf{applied Science (SCIE): https://www.mdpi.com/2076-3417/11/14/6584} \\ \textbf{applied Science (SCIE): https://www.mdpi.com/2076-3417/11/14/6584 \\ \textbf{applied Sc$
- $\bullet \ \ \text{Publication of research paper in MT Summit 2021-LoresMT Workshop: } \textbf{https://aclanthology.org/2021.mtsummit-loresmt.1/2021-loresmt$
- 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

May. 2020. - November.2020

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

• Research on Neural Machine Translation specialized for security domain

- Research of the draft machine translation specialized for security dof
- Supported by "National Security Research Institute"
- Project Manager, Tech Lead

RESEARCHER IN KOREA UNIV

RESEARCHER IN KOREA UNIV

- Development of the latest translation model based on Transformer/BERT, Al-based Korean-English translation model suitable for the security field, and research trend of the latest Al-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

CHANJUN. PARK · CURRICULUM VITAE

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

Seoul, South Korea

RESEARCHER IN KOREA UNIV

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

Ancient Korean Neural Machine Translation Research

Seoul, South Korea March. 2020. - Present

RESEARCHER IN KOREA UNIV

- 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

June. 2019. - June.2020

RESEARCHER IN KOREA UNIV

- 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://link.springer.com/article/10.1007/s11042-020-09148-2
- 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
- Skills: Pytorch, Python, REST API, Flask, Neural Machine Translation

Al 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
- · Al 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

RESEARCHER IN KOREA UNIV June 2019 - Present

- · PicTalky: Design of augmentative alternative communication (AAC) software for children with developmental disabilities
- 1st Place Microsoft Al 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/aacl-22-ingestion/2022. aacl-demo.3/
- Skills: Pytorch, Python, Google Cloud Platform, REST API, Nao Toolkit

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

Seoul, South Korea

September. 2019. - August. 2022

RESEARCHER IN KOREA UNIV

· 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 Groud 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 January. 2019. - June.2019

RESEARCHER IN SYSTRAN

- 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

Speech recognition transcription tool development

Seoul, South Korea

RESEARCHER IN SYSTRAN

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

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 June. 2018. - June.2019

RESEARCHER IN SYSTRAN

RESEARCHER IN SYSTRAN

- 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

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

Neural Machine Translation Research

RESEARCHED IN SYSTRAN

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

(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)

(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

(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)

(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 Seoul, South Korea

AI RESEARCH ENGINEER

- About Upstage: https://www.upstage.ai/
- Product Search Team -> Data Team
- Responsible roles related to search system evaluation
- · Establishment of evaluation system to develop Product Search Pack and responsible for data, planning, and evaluation
- Semantic search project with AMOREPACIFIC
- · Semantic search project with LG U+
- Semantic Seaerch-related DataOps
- OCR-related DataOps
- · Research for Data-centric Al

Aug. 2018. - July. 2019

Seoul, South Korea

Seoul, South Korea Aug. 2018. - July. 2019

Seoul, South Korea

Sep. 2016. - June. 2018

Seoul, South Korea

Sep. 2017. - June. 2018

Seoul, South Korea

Sep. 2016. - Aug. 2017

March. 2022 - Present

SYSTRAN Seoul, South Korea

RESEARCH ENGINEER 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

Language Skills Korean, English, Japanese, Thai, Myanmar

- · Micro Service Architecture Design and Successful API Platform Service Launching Experience (LCloud)
- Governmental project proposal experience
- Reason for leaving: Graduate school

SYSTRAN Seoul, South Korea

RESEARCH INTERN

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

Natural Language Processing
Full Stack

Full Stack

Product & Project & Data Manager
Strategy & Planning

API Platform Service, Platform Service Planning, Gravitee IO, Paas, Iaas, Q.A, Q.C, Mockup, Swagger

Linux, Docker, Web RTC, Latex

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	APPRATUS 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,	South Korea
2020.02	https://www.youtube.com/watch?v=R16dG_4cnFk	South Noted
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,	South Korea
2020.03	https://pictalky-311.de.r.appspot.com/	South Noted
2020.05	COVID-19 Machine Translation Platform, http://nlplab.iptime.org:32250/	South Korea
2020.07	Ancient Korean Translation & Machine Reading Comprehension with NAO,	South Korea
2020.01	https://www.youtube.com/watch?v=nXBZe-t9a-4&t=8s	South Noted
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,	South Korea
2021.04	http://nlplab.iptime.org:32285/	South Noted
2021.06	BTS (BackTranScription) for STT Post-Processor, https://backtrans-317413.de.r.appspot.com/	South Korea
2021.09	Translation platfrom 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	${\bf A}\ {\bf Tool}\ {\bf for}\ {\bf generating}\ {\bf High-Quality}\ {\bf Parallel}\ {\bf Corpus}\ {\bf considering}\ {\bf Human}\ {\bf Translation}\ {\bf Market},$	South Korea
2021.10	http://nlplab.iptime.org:9090/	South Noted
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

BoostCamp South Korea

Master (Instructor) February. 2023-Present

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

AI · DATA SUMMIT 2023 South Korea

PRESENTER February. 2023

- Real-World Centric AI
- Invited by AI · DATA SUMMIT 2023

South Korea South Forea

Presenter December. 2022

- Real-World Centric AI
- · Invited by Sunmoon University

Kyungsung University South Korea

Presenter August. 2022

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

Hankuk University of Foreign Studies

Presenter July. 2022

South Korea

January. 2022

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

Dongguk University South Korea

Artificial intelligence and Machine Translation lectures (3 times)

Invited by Dongguk University, Department of English Language and Literature

Korea University South Korea

TEACHING ASSISTANT

Autumn 2021

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

Busan Social Welfare Development Institute

July. 2021

· Attending advisory meetings and Focus Group Interview

ICT-Based Ecosystem Construction Plan to Secure Opportunities to Enjoy Together - A Study on Developmental Disabilities

Korea University South Korea

HEAD TEACHING ASSISTANT

Autumn 2020

Spring 2020

South Korea

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

Korea University South Korea

TEACHING ASSISTANT

• (COSE461)Natural Language Processing

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

LLsoLLu South Korea

PRESENTER March. 2020

· Latest natural language processing trends

- · Language Representation, Neural Symbolic Computing
- Invited by LLsoLLu Global Strategy and Planning Team

NC SOFT South Korea

PRESENTER February, 2020

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

Dongguk University South Korea

PRESENTER January. 2020

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

SKC South Korea

INSTRUCTOR Oct. 2019 - Nov.2019

- · 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
- $\bullet \ \ \, \text{Lecture materials} (Introduction of Machine Translation): \\ \textbf{https://github.com/Parkchanjun/SKC_Machine Translation}): \\ \textbf{proposed to materials} (Introduction of Machine Translation): \\ \textbf{proposed to materials} (Introduction of Machine Translation$

Naver Tech Talk South Korea

· 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 South Korea

INSTRUCTOR Aua. 2019

- · Machine Translation for Everyone
- Invited by SK Planet

PRESENTER

- Introduction to Natural Language Processing, RBMT, SMT, NMT, OpenNMT
- Lecture videos: https://tacademy.skplanet.com/live/player/onlineLectureDetail.action?seq=165

Sooyoungro Church South Korea

INSTRUCTOR Aug. 2017 - Dec.2017

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

Korea Press Foundation South Korea

INSTRUCTOR Aug. 2015 - Dec.2015

· Reading mentoring

All Publications

Aug. 2019

PREPRINTS

DMOps: Data Management Operation and Recipes

Eujeong Choi, Chanjun Park, (Corresponding Author)

arXiv preprint arXiv:2301.01228 (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**, Heuiseok 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, Heuiseok Lim, **(Equal Contribution (First Co-Author))**

arXiv preprint arXiv:2209.06422 (2022). 2022

TOP CONFERENCE

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

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

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

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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok Lim NeurlPS 2021 - Data-centric Al (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, Heuiseok 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, Heuiseok Lim *Mathematics* 11.4 (2023) p. 1006. Multidisciplinary Digital Publishing Institute, 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

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

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

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

Sugyeong Eo, Chanjun Park, Hyeonseok Moon, Jaehyung Seo, Heuiseok 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**, Heuiseok 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**, Jaechoon 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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Imatitikua D Aiyanyo, Jeongbae Park, Aram So, Kyoungwha Ok, Kinam Park

Mathematics 10.10 (2022) p. 1637. MDPI, 2022

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

Al 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

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

Jeiyoon Park, Chanhee Lee, Chanjun Park, Kuekyeng Kim, Heuiseok Lim

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Gyeongmin Kim, Chanjun Park, HeuiSeok Lim

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

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Korea Computer Congress 2018, 2018

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Extracurricular Activity

Operate Naver's natural language processing blog

South Korea 2016.Dec-Present

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

MEMBERS

OpenNMT Forum Members

South Korea

2019.July-2019.July

• Active as OpenNMT Forum Members

• Develop and share OpenNMT Pytorch, Tensorflow, Library Tutorial

South Korea

ETRI's machine translation quality evaluator

Quality evaluation of machine translation hosted by ETRI

2019.October-2019.December

Completion of basic curriculum for natural language processing and language intelligence

South Korea

Korea University Human-Inspired Al & Computing Research Center

2019.July-2019.July

Completed the natural language processing tutorial (2016-2019)

South Korea

2016 - 2019

Special Interest Group of Human and Cognitive Language Technology

Reporter, Korea Electronics and Telecommunications Research Institute (ETRI)

South Korea 2016.Feb-2018.Feb

REPORTER

SUPPORTERS

STUDENT

STUDENT

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

South Korea

Flitto Supporters

2017.Dec-2017.Dec

· The first plito supporters

Journalist of the Ministry of Science and ICT

South Korea 2016.Feb-2017.Feb

REPORTER

• 8 articles published

· Visit Exobrain Quiz Show

• URL: https://blog.naver.com/bcj1210/221147196551

Planning a video lecture for Natural Language Processing Basic at BUFS

South Korea

PLANNER

• URL: https://bit.ly/2NmFJV1

2016.July-2016.July

BIT Computer Advanced Course Completion South Korea

STUDENT

STUDENT

2016. January-2016. August

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

BIT Computer Short Course Completion South Korea

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

2015.June-2015.August