

JAEHUN JUNG

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EDUCATION	Seoul National University , Seoul, Korea, Republic of Undergraduate Major: Computer Science and Engineering Overall GPA: 4.23 / 4.3 (Major: 4.21 / 4.3)	Mar 2014 ~ Present
RESEARCH INTERESTS	Information Extraction, Relational Reasoning, Knowledge Graph Completion, Semantic Parsing, Neural Machine Translation	
PUBLICATIONS	<p>[1] Jaehun Jung, Bokyung Son*, Sungwon Lyu*. AttnIO: Knowledge Graph Exploration with In-and-Out Attention Flow for Knowledge-Grounded Dialogue. <i>In Proceedings of 2020 Conference on Empirical Methods for Natural Language Processing (EMNLP 2020)</i>.</p> <p>[2] Jaehun Jung, Jinhong Jung, U Kang. T-GAP: Learning to Walk across Time for Temporal Knowledge Graph Completion. (<i>under review</i>)</p> <p>[3] Guhyun Han, Jaehun Jung, YoungHo Kim, Jinwook Seo. DataHalo: Customizable Visualization System to Embody Personal Design Perspectives of Ambience. (<i>under review</i>)</p> <p>* denotes equal contribution.</p>	
ACADEMIC EXPERIENCE	Data Mining Lab , Seoul National University Undergraduate Research Program (URP) Advisor: Prof. U Kang Proposed a novel temporal reasoning model based on attention propagation and GNN, achieving state-of-the-art results in temporal knowledge graph completion benchmarks.	Mar 2020 ~ Jun 2020
	Human-Computer Interaction Lab , Seoul National University Research Intern Advisor: Prof. Jinwook Seo Designed, and Implemented mobile user-context aware application, through customizable information visualization on smartphone notification dataset.	Mar 2018 ~ Dec 2019
INDUSTRIAL EXPERIENCE	Kakao Enterprise , Seoul, Korea NLP Researcher Developed / Deployed a fast language detection model for Neural Machine Translation. Research on hyperbolic VAE for Neural Machine Translation.	Apr 2020 ~ Present
	Kakao AI Lab , Seoul, Korea Research Intern Proposed a new approach toward knowledge graph exploration for knowledge-grounded dialogue system.	Jan 2020 ~ Mar 2020
	SNULife , Seoul National University CTO Developed new services and led maintenance for SNULife.com, an online student community with 170k+ users.	May 2018 ~ Mar 2019

Police Tactical Unit, Daegu Metropolitan Police Agency
Auxiliary Police, HR Department (Mandatory Military Service)
Developed Human Resource DBMS, currently deployed to nationwide police agencies.

Mar 2015 ~ Feb 2017

SCHOLARSHIPS

Academic Excellence Scholarship, Seoul National University
Merit-based undergraduate scholarship.

2014, 2015, 2017

National Scholarship for Science and Engineering
Merit-based full stipend scholarship by KOSAF (*Korean Student Aid Foundation*)

2018 ~ 2020

ACTIVITIES & PROJECTS

Unsupervised NMT, Term project for *Creative Integrated Design*
Conducted a joint project with LG CNS corporation. Applied unsupervised NMT based on back translation for data augmentation on Korean QA.

2020

Deepest, Deep-learning academics group
Conducted a group study on representation learning, and gave two talks on BERTology and knowledge graph completion.

2019

Scientific Text Generation, Term project for *Introduction to Machine Learning*
Generated scientific paper abstract with a Seq2Seq model augmented by SciIE and Graph Transformer.

2019

Pillbox, Term project for *Software Development Principles and Practices*
Developed Pillbox, a web application for medication management based on OCR.

2019

LectureRoom+, Mobile Application
Developed a cross-platform mobile app for lecture Q&A and student gathering.
Downloaded by 10k+ users.

2018

SKILLS

Languages
Korean (Native), English (Professionally Fluent)
GRE: Verbal - 164 / Quant - 170 / Writing - 4.0 (Sep 2020)

Programming Frameworks
Machine Learning: Pytorch, Pytorch-Lightning, Deep Graph Library, Pytorch-Geometric, TensorFlow, Keras
Visualization: Plotly, D3.js
Web Development: Django, PHP / React.js
Mobile Development: Android (Java, Kotlin)

Online Courses
ML@Coursera, Deep Learning Specialization@deeplearning.ai