

JUNGGEUN DO

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Research Interest

I am passionate about making people's lives better by developing **explainable and interpretable deep learning models**, primarily for tasks involving natural language processing. My research interests include incorporating real-world knowledge/constraints into deep learning models. I am broadly interested in **information retrieval**, **open domain question answering** and **language modeling**. I believe that by improving NLP systems, we can make information more accessible to people all over the world.

Education

Seoul National University

Double Major in Physics and Economics; Minor in Computer Science and Engineering

Mar 2015 – Aug 2024

Seoul, South Korea

Gyeonggi Science High School for the gifted

Mainly focused on physics

Feb 2012 – Feb 2015

Suwon, South Korea

Publication

[1] **Junggeun Do**, Jaeseong Lee and Seung-won Hwang. 2024. ContrastiveMix: Overcoming Code-Mixing Dilemma in Cross-Lingual Transfer for Information Retrieval. NAACL 2024 (short).

Experience

Structure & Knowledge Injection into Machine Learning Lab

Research Assistant (advisor: Jay-Yoon Lee)

Jan 2024 – Present

Seoul National University

- Exploring how to use energy network as a trainable loss function

Language & Data Intelligence Lab

Research Assistant (advisor: Seung-won Hwang)

Apr 2023 – Feb 2024

Seoul National University

- Explored to improve low-resource information retrieval
- Explored to improve retrieval-based LM on ODQA

Gravity Labs Co., Ltd. (blockchain startup, raised \$2m to date)

Software Engineer, founding member

Sep 2022 – Mar 2023

Seoul, South Korea

- Developed mobile applications, websites and smart contracts

VoyagerX (AI-based startup raised \$27m from SoftBank, others)

Deep Learning Engineer

Mar 2022 – Aug 2022

Seoul, South Korea

- Developed end-to-end text-to-speech synthesis models
- Explored to develop photo-realistic hairstyle transfer models

Kakao Enterprise Corp.

Machine Learning Engineer Intern, AI Lab

Sep 2021 – Feb 2022

Seongnam, South Korea

- Explored low-resource domain adaptation for neural machine translation
- Explored to develop style-controllable neural machine translation models

Extracurricular

Military Service

Reserved Sergeant

Feb 2020 – Sep 2021

Republic of Korea Army

- Served as military driver and squad leader

Undergraduate Students' Government

President

Dec 2018 – Nov 2019

Seoul National University

- Worked as the president directly elected by all undergraduate students

Teaching

Undergraduate TA

Data Structure

- Taught data structure with examples and answered students' questions

Mar 2024 – Jun 2024

Seoul National University

Undergraduate TA

Foundation of Physics 1

- Tutored undergraduate students with no background in physics

Mar 2024 – Jun 2024

Seoul National University

Scholarship and Award

The Presidential Science Scholarship

Korea Student Aid Foundation

- Full tuition coverage for 4 years with stipend of 2.5 million KRW of support per semester

Mar 2015 – Feb 2020

Seoul National University

Samsung HumanTech Paper Award

Samsung Electronics

- Awarded a bronze prize for the paper titled “Method to increase efficiency of wireless transfer system based on magnetic resonance: single and multiple receivers.”

Feb 2014

Gyeonggi Science High School for the gifted