

## EDUCATION

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<b>Korea University</b> M.S. in Computer Science	Seoul, KR 2022–Current
<b>Sogang University</b> B.S. in Convergence Software, Triple major in Business Administration & Mass Communication	Seoul, KR 2011–2018

## WORK EXPERIENCE

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<b>NLP Engineer, Visually-rich Document Understanding</b> Cognitive AI Group, SAMSUNG SDS	Seoul, KR Nov 2021–Current
<b>NLP Engineer, Conversation model development</b> In-house venture “XEEDLAB”, SAMSUNG SDS	Seoul, KR Mar 2021–Oct 2021
<b>Data Scientist, Text mining in Manufacturing</b> Intelligent Factory, SAMSUNG SDS	Seoul, KR Jul 2018–Feb 2021
<b>Data Scientist, Extracurricular activities recommendation</b> Headstart	San Jose, CA Summer 2017

## PROJECTS

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<b>Multi-turn conversation model development</b> Construct Korean dialogue dataset and implemented BlenderBot <ul style="list-style-type: none"><li>• Research on comparing seq2seq models and decoder-only models for conditional generation</li><li>• Dataset construction with lower cost using machine translation</li></ul>	Mar 2021–Oct 2021
<b>Equipment troubleshooting guidance system</b> (Samsung Display) Designed and implemented NLP pipeline for recommendation system <ul style="list-style-type: none"><li>• Sentence relation prediction using Sentence BERT</li><li>• Contextualized classification using Hierarchical Attention Network</li></ul>	Oct 2019–Feb 2021
<b>Manufacturing document management system</b> (Samsung Electronics) Developed search engine to manage engineering log and extract topic map from document <ul style="list-style-type: none"><li>• Data ETL and ElasticSearch add-on development</li><li>• Extractive summarization, topic extraction and similar documents search</li></ul>	Jul 2018–Sep 2019

## RESEARCH EXPERIENCE

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### Co-Researcher, Natural Language Processing Lab, Korea University

Seoul, KR

- Implemented BlenderBot for Korean Dialogues with Prof. Heuseok Lim

Mar 2021–Oct 2021

### Research Intern, Kangbuk Samsung Hospital

Seoul, KR

- Applied cycle GAN variant models for medical image translation

Summer 2018

### Research Assistant, Sogang University

Seoul, KR

- Analyzed student activity data and designed an extracurricular activities roadmap

2015–2018

## RESEARCH INTERESTS

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### Deep learning based NLP

- Dialogue System
- Visual Document Understanding
- Information Retrieval

## PUBLICATIONS

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- [1] Hodong Lee, Jongmin Lee, Yoonna Jang, Jaehyung Seo, Heuseok Lim, “Study on Multi-turn Response Generation with Information Retrieval and Korean Generative Model”, *Korea Convergence Society (KCS)*, 2021, (Under Review).

## SKILLS

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- **Samsung Software Competency Test** (‘Professional’ level)
- **Deep Learning model development** (Pytorch & Tensorflow/Keras)
- **Design of NLP dataset and service pipeline**
- **Building of RESTful microservices** (Django & FastApi)
- **EDA & Data visualization** (Python & R)
- **Proficient in SQL, Elasticsearch, JAVA**

## TEACHING

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- **Teaching Assistant** at Keras Korea

Winter 2019

*Prepared and taught materials in NLP pipeline development using TensorFlow/Keras*

- **Teaching Assistant** at Sogang University

2016–2018

*Course Name (Computational Thinking)*

## REFERENCES

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**Prof. Heuiseok Lim**

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**Prof. Yoondong Lee**

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