

# Gyeongbok Lee

alias\_n@live.com · <https://antest1.github.io/>

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My research interests lie in the fields of natural language processing (NLP), model interpretability, and knowledge representation. My work primarily involved rapidly implementing and demonstrating research findings for practical use, leveraging a diverse skillset. I value the research direction of exploring and building applications that will help people increase productivity by utilizing AI/ML technologies such as large language models (LLMs). I'm also interested in the techniques for deploying models for various services.

## Skills

- **Programming Language:** Python (main), Javascript, Java
- **Library and Tools:**
  - AI/ML Frameworks (PyTorch, Lightning, HuggingFace Transformers, PEFT)
  - Model Serving & Web Development (vLLM, FastAPI, Bootstrap, jQuery, MySQL, Docker, AWS)
  - Mobile Development Environments (Android SDK, Java)

## Work History

FEB 2019 – PRESENT

**AI Researcher**, Text AI Lab, NCSoft  
currently in Generation Application Team

### Research topics includes:

- Deep learning model design & implementation  
(user recommendation system, stock market prediction, drug-target interactions, etc.)
- Explainable AI (XAI) in natural language processing model
- Log abstraction with process mining and graph summarization for game bot detection
- Building large language model (LLM) applications to help game development processes

JUL 2018 – OCT 2018

**Internship**, NAVER (Clova AI)

Topic: SQuAD 2.0, Debugging QA Model

Role: model design and implementation (PyTorch), build web framework (Bootstrap, Flask, etc)

AUG 2016 – JUN 2017

**Industry-Academic Cooperation Project**, NAVER

Topic: Query Intention Representation using Deep Neural Networks

Role: model design and implementation (Keras/Tensorflow), experiment design

## Education

SEP 2016 – FEB 2019

**M.S., Computer Science**, Yonsei University

Supervisor: Prof. Seung-won Hwang

Thesis: Explainable Machine Reading Comprehension Framework for Model Debugging

MAR 2013 – AUG 2016

**B.S., Computer Science**, Yonsei University

Summa Cum Laude (GPA 4.08/4.3, Top 1%)

## Publications

**SQuAD2-CR: Semi-supervised Annotation for Cause and Rationales for Unanswerability in SQuAD 2.0**

Gyeongbok Lee, Seung-won Hwang, Hyunsouk Cho

LREC 2020 - The International Conference on Language Resources and Evaluation

**Explanatory and Actionable Debugging for Machine Learning: A TableQA Demonstration**

Minseok Cho, Gyeongbok Lee, Seung-won Hwang

SIGIR 2019 (Demonstration) - Annual Conference of the Association for Computing Machinery Special Interest Group in Information Retrieval

**QADiver: Interactive Framework for Diagnosing QA Models**

Gyeongbok Lee, Sungdong Kim, Seung-won Hwang

AAAI 2019 (Demonstration) - Association for the Advancement of Artificial Intelligence

**Visual Choice of Plausible Alternatives: An Evaluation of Image-based Commonsense Causal Reasoning**

Jinyoung Yeo, {Gyeongbok Lee, Gengyu Wang}\*, Seungtaek Choi, Hyunsouk Cho, Reinald Kim Amplayo, Seung-won Hwang (\*equal contribution)

LREC 2018 - The International Conference on Language Resources and Evaluation

## Personal Projects

MAR 2019 – PRESENT

**GotoBrowser - Android Browser for KanColle 2nd Phase (HTML5)**

Github: <https://github.com/antest1/GotoBrowser>

Role: Full-stack development (Android, Javascript), i18n (jp/en/ko/cn) support

DEC 2016 – PRESENT

**Kcanotify - Viewer Application for KanColle Android**

Github: <https://github.com/antest1/kcanotify>

Role: Full-stack development (Android, PHP, AWS), i18n (jp/en/ko/cn) support

## Academic Services

2021 – 2025

### AAAI Program Committee Member

Association for the Advancement of Artificial Intelligence (Conference Reviewer)  
included in the top 25% of Program Committee Members (2021)

2020 / 2022 / 2024

### LREC Scientific Committee Member

The International Conference on Language Resources and Evaluation (Conference Reviewer)

## Awards

JUN 2017

### KISTI President Award for SW Implementation/Demo Contest

KCC 2017 conference (Domestic Competition)  
Topic: KB inference for Action-driven Chatbots

APR 2017

### Top Winner of BIG 2017 Cup Challenge

BIG 2017 conference co-located with WWW 2017 (International Competition)  
Topic: IsA relationship extraction from large-scale concept graphs

JUN 2016

### Excellence Award for Graduation Exhibition

Dept. of Computer Science, Yonsei University  
Topic: Development of REST Service for Author-Paper Identification

APR 2016

### Top Winner of BIG 2016 Cup Challenge

BIG 2016 conference co-located with WWW 2017 (International Competition)  
Topic: Author-Paper Identification from large-scale heterogeneous academic graphs

NOV 2015

### Excellence Award for Graduation Exhibition

Dept. of Computer Science, Yonsei University  
Topic: Web Framework Development for Comparison Analysis of Classification Methods in  
Sensor Data Stream

## Teaching Experiences

SPRING 2018

### Teaching Assistant (TA)

Yonsei University, Seoul

- CSI4108: ARTIFICIAL INTELLIGENCE (Undergraduate)

SPRING 2015 / FALL 2015 / SPRING 2016

### Student Tutor

On-campus Tutoring Program in Yonsei University, Seoul

- CSI2109: INTERNET PROGRAMMING (Undergraduate)
- CSI2102: OBJECT-ORIENTED PROGRAMMING (Undergraduate)

Awarded as the Outstanding Tutor (Spring 2015) & Outstanding Tutoring Team (Fall 2015, Spring 2016)

## Scholarships

FALL 2016 / SPRING 2017 / FALL 2017

**Internal Scholarship** (Graduate, Yonsei University)

FALL 2016

**NAVER M.S Student Fellowship** (NAVER)

FALL 2013 / SPRING 2015 / FALL 2015 / SPRING 2016

**National Science and Technology Scholarship** (KOSAF)

SPRING 2013 / SPRING 2014 / FALL 2014

**Internal Scholarship** (Undergraduate, Yonsei University)