

# GYEONGBOK LEE

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My research interests lie in the field of knowledge representation and model Interpretability mainly on natural language processing area. I'm also interested in the techniques for deploying deep learning models in various environments.

## RESEARCH EXPERIENCE

**FEB 2019 – PRESENT**

**AI RESEARCHER**, KNOWLEDGE AI LAB, NCSoft

currently in Knowledge Mining Team

**Research topics includes:**

- Explainable AI (XAI) in Natural Language Processing Model
- User Knowledge Modeling for Learning Path Recommendation
- Model Design/Implementation for User Recommendation System
- Large-scale Log-based Methodology for Game Bot Detection

**JUL 2018 – OCT 2018**

**INTERNSHIP**, CLOVA AI, NAVER

Topic: SQuAD 2.0, Debugging QA Model

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

**AUG 2016 – JUN 2017**

**INDUSTRY-ACADEMIC COOPERATION PROJECT**, NAVER

Topic: Query Intention Representation using Deep Neural Networks

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

## 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)

## PUBLICATIONS

- **SQuAD2-CR: Semi-supervised Annotation for Cause and Rationales for Unanswerability in SQuAD 2.0**  
Gyeongbok Lee, Seung-won Hwang, Hyunsouk Cho  
LREC - The International Conference on Language Resources and Evaluation, 2020
- **Explanatory and Actionable Debugging for Machine Learning: A TableQA Demonstration**  
Minseok Cho, Gyeongbok Lee, Seung-won Hwang  
SIGIR (Demonstration) - Annual Conference of the Association for Computing Machinery Special Interest Group in Information Retrieval, 2019
- **QADiver: Interactive Framework for Diagnosing QA Models**  
Gyeongbok Lee, Sungdong Kim, Seung-won Hwang  
AAAI (Demonstration) - Association for the Advancement of Artificial Intelligence, 2019
- **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 (\*co-first authors)  
LREC - The International Conference on Language Resources and Evaluation, 2018

## 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 heterogenous 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**

Yonsei University, Seoul

CSI4108: ARTIFICIAL INTELLIGENCE (Undergraduate)

**SPRING 2016**

### **STUDENT TUTOR**

Tutoring Program in Yonsei University, Seoul

CSI2109: INTERNET PROGRAMMING (Undergraduate)

Awarded as the **Outstanding Tutoring Team**

**FALL 2015**

### **STUDENT TUTOR**

Tutoring Program in Yonsei University, Seoul

CSI2102: OBJECT-ORIENTED PROGRAMMING (Undergraduate)

Awarded as the **Outstanding Tutoring Team**

**SPRING 2015**

### **STUDENT TUTOR**

Tutoring Program in Yonsei University, Seoul

CSI2109: INTERNET PROGRAMMING (Undergraduate)

Awarded as the **Outstanding Tutor**

## SCHOLARSHIPS

- **Internal Scholarship (Graduate, Yonsei University)**  
Fall 2016, Spring 2017, Fall 2017
- **NAVER M.S Student Fellowship (2016)**
- **National Science and Technology Scholarship (KOSAF)**  
Fall 2013, Spring 2015, Fall 2015, Spring 2016
- **Internal Scholarship (Undergraduate, Yonsei University)**  
Spring 2013, Spring 2014, Fall 2014

## PERSONAL PROJECTS & SERVICES

**DEC 2016 – PRESENT**

### **KCANOTIFY** VIEWER APPLICATION FOR KANCOLLE ANDROIDAI

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

Role: development (Android, PHP), UI design, user support

**MAR 2019 – PRESENT**

### **GOTOBROWSER** ANDROID BROWSER FOR KANCOLLE 2ND PHASE (HTML5)

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

Role: development (Android, Javascript), UI design, user support

2021, 2022

**AAAI PROGRAM COMMITTEE MEMBER (REVIEWER)**

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

2020, 2022

**LREC SCIENTIFIC COMMITTEE MEMBER (REVIEWER)**

The International Conference on Language Resources and Evaluation

## SKILLS

- **Programming Language:** Python, Java, Javascript
- **Tools:** Web Frameworks (Bootstrap, Flask, Sanic), Deep Learning Frameworks (PyTorch, Keras, Tensorflow), Mobile Development Environments (Android SDK, Java), Data Analysis (Hive, Spark)