GYEONGBOK **LEE**

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[last updated: Jul 2022]

My research interests lie in the field of knowledge representation and model interpretability on natural language processing and modeling for various tasks based on log data. I'm also interested in the techniques for deploying deep learning models in various environments.

RESEARCH EXPERIENCE

FEB 2019 – PRESENT
AI RESEARCHER, APPLIED AI LAB, NCSOFT

currently in Sequence Modeling 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
- Log Abstraction with Process Mining and Graph Summarization

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, PySpark)