

Dong-Ho Lee

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Education

University of Southern California (USC)

M.S. in Computer Science

- Advisor: Dr. Xiang Ren

Los Angeles, United States

Aug. 2018 - May. 2020

Sungkyunkwan University (SKKU)

B.S. in Computer Education

- Total GPA: 4.10/4.5 (Major GPA: 4.26/4.5)

Seoul, Republic of Korea

Sep. 2012 - Feb. 2018

Sheffield University

Exchange program in Computer Science

Sheffield, United Kingdom

Sep. 2016 - Feb. 2017

Experience

Information Sciences Institute, USC

Research Programmer I (Full time)

- Research Programmer supervised by Dr. Ralph Weischedel

- Working on MCS (DARPA) project. I am developing ways to mine the www for Commonsense knowledge that could be applied to diverse subject areas.
- Working on LESTAT (DARPA) project. To understand a complex event, we are organizing typical sequence of actions in format of schema. I am currently developing event order suggestion and event summarization modules in the team.

Los Angeles, United States

Sep. 2020 - PRESENT

Singapore University of Technology and Design (SUTD)

Visiting Researcher

- Project Leader of Academic assisted writing under Dr. Roy Ka-Wei Lee
- Aims to implement Academic Assisted Writing tool that provides real-time suggestions.
- Project goal is to provide appropriate real-time suggestions based on academic discipline—sociology, medicine, engineering, computer science, etc.

Singapore

May. 2020 - PRESENT

Information Sciences Institute / Department of Computer Science, USC

Student Research Worker

- Project Leader in INK (Intelligence and Knowledge Discovery Research) lab under Dr. Xiang Ren
- [ICLR 2021] Presented a concept-aware language model that can pack commonsense knowledge into the parameters of a text-to-text transformer.
- [ACL 2019/2020] Leveraged the performance of low-resource Information Extraction by finding meaningful supervision and unifying those multiple weak signals into various tasks such as Named Entity Recognition, Relation Extraction, and Sentiment Analysis.

Los Angeles, United States

Nov. 2018 - PRESENT

Publications

* These authors contributed equally

Preprints

[1] AutoTriggER: Named Entity Recognition with Auxiliary Trigger Extraction

Dong-Ho Lee*, Ravi Kiran Selvam*, Sheikh Muhammad Sarwar, Bill Yuchen Lin, Fred Morstatter, Jay Pujara, Elizabeth Boschee, James Allan, Xiang Ren
[KDD 2021] Under Review.

[2] Machine-Assisted Script Curation

Manuel R. Ciosici, Joseph Cummings, Mitchell DeHaven, Alex Hedges, Yash Kankanampati, Dong-Ho Lee, Ralph Weischedel and Marjorie Freedman
[NAACL 2021] Under Review.

[3] Improving Text Auto-Completion with Next Phrase Prediction

Dong-Ho Lee, Zhiqiang Hu, Roy Ka-Wei Lee
[ACL 2021] Under Review.

[4] ForecastQA: A Question Answering Challenge for Event Forecasting

Woojeong Jin, Suji Kim, Rahul Khanna, Dong-Ho Lee, Fred Morstatter, Aram Galstyan, and Xiang Ren
[ACL 2021] Under Review.

[5] RiddleSense: Answering Riddle Questions as Commonsense Reasoning

Bill Yuchen Lin, Ziyi Wu, Yichi Yang, Dong-Ho Lee, and Xiang Ren
[ACL 2021] Under Review.

Research papers in conference proceedings

[6] Pre-training Text-to-Text Transformers for Concept-centric Common Sense

Wangchunshu Zhou*, Dong-Ho Lee*, Ravi Kiran Selvam, Seyeon Lee, Bill Yuchen Lin, Xiang Ren
[ICLR 2021] Proceedings of the 9th International Conference on Learning Representations.
[SSL@NIPS 2020] NeurIPS 2020 Workshop on Self-Supervised Learning: Theory and Practice.

[7] TriggerNER: Label-Efficient Learning for Named Entity Recognition via Annotating Entity Triggers

Bill Yuchen Lin*, Dong-Ho Lee*, Ming Shen, Ryan Moreno, Xiao Huang, Prashant Shiralkar and Xiang Ren
[ACL 2020] Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics, pp.372-379.

[8] LEAN-LIFE: A Label-Efficient Annotation Framework Towards Learning from Annotator Explanation

Dong-Ho Lee*, Rahul Khanna*, Bill Yuchen Lin, Jamin Chen, Seyeon Lee, Qinyuan Ye, Elizabeth Boschee, Leonardo Neves and Xiang Ren
[ACL 2020] Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics, pp.8503-8511.

[9] AlpacaTag: An Active Learning-based Crowd Annotation Framework for Sequence Tagging

Bill Yuchen Lin*, **Dong-Ho Lee***, Frank F. Xu, Ouyu Lan and Xiang Ren

[ACL 2019] Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics, pp.58-63.

Research papers in Journals

[10] Fake news detection using deep learning

Dong-Ho Lee, Yu-Ri Kim, Hyeong-Jun Kim, Seung-Myun Park, Yu-Jun Yang

Journal of Information Processing Systems, vol.15, no.5, pp.1119-1130, 2019.

Services

PROGRAM COMMITTEE EACL 2021

EXTERNAL REVIEWER WWW 2021, KDD 2020, WWW 2020, ACL 2020, CONLL 2019, NLI@ACL 2020, DeepLo@EMNLP 2019

Awards & Services

2016 **Scholarship**, Academic Scholarship

SKKU (Sungkyunkwan University)

2018 **Best paper award**, The KIPS Spring Conference

The federation of Korean Information Industries

Extracurricular

Republic of Korea Air Force

Osan AB, Republic of Korea

Sergeant

Aug. 2013 - Aug. 2015

- Led a team at the Master Control and Reporting Center (MCRC) at Osan Air Base
- Team managed radars and consoles that monitored possible activities from North Korean aircraft and ballistic missiles.

Sangmoon High School

Seoul, Republic of Korea

Computer Science Teacher

June. 2017 - Nov. 2017

- Organized course curriculum and taught a computer science class for one semester.

Sunrin Internet High school

Seoul, Republic of Korea

Teaching Intern

May. 2017

- Taught JAVA to students who showed promising talent in IT.
- Received K-12 teaching license.

Software Skills

Programming Language Python, Java, Android, HTML, CSS, Javascript (Vue.js), React, PHP, C, C++ **Web framework** Django

Deep Learning Framework PyTorch, Tensorflow **Web scraping** Scrapy (w/ Selenium) **Database** MySQL, Postgres, Redis, Memcached