

Dong-Ho Lee

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Education

University of Southern California (USC)

Ph.D. in Computer Science

• Advisor: [Dr. Jay Pujara](#)

Los Angeles, United States

Aug. 2021 - Current

University of Southern California (USC)

M.S. in Computer Science

• Advisor: [Dr. Xiang Ren](#)

Los Angeles, United States

Mar. 2018 - May. 2020

Sungkyunkwan University (SKKU)

B.S. in Computer Education

Seoul, Republic of Korea

Mar. 2012 - Feb. 2018

Sheffield University

Exchange program in Computer Science

Sheffield, United Kingdom

Sep. 2016 - Feb. 2017

Experience

SoftlyAI

Founding Machine Learning Engineer

Seoul, Republic of Korea

Mar. 2022 - Current

Microsoft Research

Research Intern

Redmond, United States

May. 2022 - Aug. 2022

Upstage AI

AI Research Engineer

Seoul, Republic of Korea

Aug. 2021 - Mar. 2022

Information Sciences Institute, USC

Research Programmer I

Los Angeles, United States

Sep. 2020 - Aug. 2021

Singapore University of Technology and Design (SUTD)

Visiting Researcher

Singapore

May. 2020 - Aug. 2021

Publications

* These authors contributed equally

Preprints

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

[Dong-Ho Lee*](#), Ravi K. Selvam*, Sheikh M. Sarwar, Bill Y. Lin, Mahak Agarwal, Fred Morstatter, Jay Pujara, Elizabeth Boschee, James Allan and Xiang Ren

[WeaSul@ICLR 2021] ICLR 2021 Workshop on Weakly Supervised Learning.

[TrustNLP@NAACL 2021] NAACL 2021 Workshop on Trustworthy Natural Language Processing. **(Best Paper Award)**

[2] **XMD*: An End-to-End Framework for Interactive Explanation-Based Debugging of NLP Models**

[Dong-Ho Lee*](#), Akshen Kadakia*, Brihi Joshi, Aaron Chan, Ziyi Liu, Takashi Shibuya, Ryosuke Mitani, Toshiyuki Sekiya, Jay Pujara and Xiang Ren

Research Papers in conference proceedings

[3] **Good Examples Make A Faster Learner: Simple Demonstration-based Learning for Low-resource NER**

[Dong-Ho Lee](#), Akshen Kadakia*, Kangmin Tan*, Mahak Agarwal, Xinyu Feng, Takashi Shibuya, Ryosuke Mitani, Toshiyuki Sekiya, Jay Pujara and Xiang Ren

[ACL 2022] Annual Meeting of the Association for Computational Linguistics (ACL), 2022.

[4] **Leveraging Visual Knowledge in Language Tasks: An Empirical Study on Intermediate Pre-training for Cross-Modal Knowledge Transfer**

Woojeong Jin*, [Dong-Ho Lee*](#), Chenguang Zhu, Jay Pujara and Xiang Ren

[ACL 2022] Annual Meeting of the Association for Computational Linguistics (ACL), 2022.

[5] **Assessing Scientific Research Papers with Knowledge Graphs**

Kexuan Sun, Zhiqiang Qiu, Abel Salinas, Yuzhong Huang, [Dong-Ho Lee](#), Daniel Benjamin, Fred Morstatter, Xiang Ren, Kristina Lerman and Jay Pujara

[SIGIR 2022] ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR), 2022.

[6] **Perhaps PTLMs should go to School – A Task to Assess Open Book and Closed Book QA**

Manuel Ciosici, Joe Cecil, Alex Hedges, [Dong-Ho Lee](#), Marjorie Freedman and Ralph Weischedel

[EMNLP 2021] Conference on Empirical Methods in Natural Language Processing (EMNLP), 2021.

[7] **Improving Text Auto-Completion with Next Phrase Prediction**

[Dong-Ho Lee](#), Zhiqiang Hu and Roy Ka-Wei Lee

[EMNLP 2021 (Findings)] Conference on Empirical Methods in Natural Language Processing (EMNLP), Findings, 2021.

[8] **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] Annual Meeting of the Association for Computational Linguistics (ACL), 2021.

[9] **RiddleSense: Answering Riddle Questions as Commonsense Reasoning**

Bill Yuchen Lin, Ziyi Wu, Yichi Yang, [Dong-Ho Lee](#) and Xiang Ren

[ACL 2021 (Findings)] Annual Meeting of the Association for Computational Linguistics (ACL), Findings, 2021.

[10] **Pre-training Text-to-Text Transformers for Concept-centric Common Sense**
Wangchunshu Zhou*, **Dong-Ho Lee***, Ravi Kiran Selvam, Seyeon Lee, Bill Yuchen Lin and Xiang Ren
[ICLR 2021] International Conference on Representation Learning (ICLR), 2021.
[SSL@NIPS 2020] NeurIPS 2020 Workshop on Self-Supervised Learning: Theory and Practice.

[11] **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] Annual Meeting of the Association for Computational Linguistics (ACL), 2020.

System Demonstration Papers in Conference Proceedings

[12] **Machine-Assisted Script Curation**
Manuel R. Ciosici, Joseph Cummings, Mitchell DeHaven, Alex Hedges, Yash Kankanampati, **Dong-Ho Lee**, Ralph Weischedel and Marjorie Freedman
[NAACL-HLT 2021] The Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL-HLT), 2021.

[13] **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] Annual Meeting of the Association for Computational Linguistics (ACL), 2020.

[14] **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] Annual Meeting of the Association for Computational Linguistics (ACL), 2019.

Research papers in Journals

[15] **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.

Talks

Explanation-based Learning

Microsoft Research AI Power Lunch, Jul 2022
POSTECH AI Seminar, Aug 2022

Teaching Experience

2022 **Teaching Assistant**, CSCI 563: Building Knowledge Graphs (2022 Fall)

Services

Program Committee

International Conference on Machine Learning (**ICML**): 2022
International Conference on Representation Learning (**ICLR**): 2022-2023
Conference on Neural Information Processing Systems (**NeurIPS**): 2021-2022
ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD**): 2022
Conference on Empirical Methods in Natural Language Processing (**EMNLP**): 2021-2022
SIAM International Conference on Data Mining (**SDM**): 2022
Conference of the European Chapter of the Association for Computational Linguistics (**EACL**): 2021
Language Resources and Evaluation Conference (**LREC**): 2022

External Reviewer

ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD**): 2020-2021
International World Wide Web Conference (**WWW**): 2020-2021
Annual Meeting of the Association for Computational Linguistics (**ACL**): 2020
The SIGNLL Conference on Computational Natural Language Learning (**CONLL**): 2019

Awards

2021 **Best Paper Award**, NAACL 2021 TrustNLP Workshop
2018 **Best paper award**, KIPS 2018 Spring Conference
2016 **Academic Scholarship**, SKKU (Sungkyunkwan University)

Extracurricular

Republic of Korea Air Force

Sergeant

- 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.

*Osan AB, Republic of Korea
Aug. 2013 - Aug. 2015*

Sangmoon High School

Computer Science Teacher

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

Seoul, Republic of Korea

June. 2017 - Nov. 2017

Sunrin Internet High school

Teaching Intern

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

Seoul, Republic of Korea

May. 2017