SEYEON (JULIA) LEE

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RESEARCH INTERESTS

Analysis on Pre-trained Language Model, Pre-trained Language Modeling, Commonsense Reasoning, Natural Language Processing, Machine Learning

EDUCATION

University of Southern California, Los Angeles, CA, U.S.A.   **08/2019-present**
Master of Science in Computer Science, Viterbi school of Engineering

Seoul Women's University, Seoul, Korea.   **03/2014-08/2018**
Bachelor of Engineering in Computer Science & Engineering

Illinois Institute of Technology, Chicago, IL, U.S.A   **08/2016-05/2017**
Exchange Student, Information Technology and Business, School of Applied Technology

RESEARCH EXPERIENCE

INK Lab, University of Southern California, Los Angeles, U.S.A.   **12/2019-present**
Research Student Worker, Advised by Professor Xiang Ren

- Working on constructing a challenging commonsense dataset that evaluates the capabilities of making commonsense inferences and the robustness of these inferences to language variations.
- Worked on constructing a novel numerical commonsense reasoning probing task with a diagnostic dataset consisting of 3K masked word prediction probes.
- Worked on expansive experiments to check whether our concept-aware language model can pack more commonsense knowledge into the parameters of a pre-trained text-to-text transformer without relying on any explicit resources.

PUBLICATIONS

***Birds have four legs?!* NumerSense: Probing Numerical Commonsense Knowledge of Pre-trained Language Models**
in Empirical Methods in Natural Language Processing(EMNLP) 2020
Bill Yuchen Lin, **Seyeon Lee**, Rahul Khanna and Xiang Ren

Pre-training Text-to-Text Transformers for Concept-centric CommonSense
in Self-Supervised Learning(SSL) workshop at NeurIPS 2020
Wangchunshu Zhou*, Dong-Ho Lee*, Ravi Kiran Selvam, **Seyeon Lee**, Bill Yuchen Lin and Xiang Ren

LEAN-LIFE: A Label-Efficient Annotation Framework Towards Learning from Explanation
in Annual Meeting of the Association for Computational Linguistics(ACL) 2020(system demo)
Dong-Ho Lee*, Rahul Khanna*, Bill Yuchen Lin, Jamin Chen, **Seyeon Lee**, Qinyuan Ye, Elizabeth Boschee, Leonardo Neves and Xiang Ren

UNDER REVIEW

Pre-Training Text-to-Text Transformers for Concept-Centric CommonSense
Submitted to International Conference on Learning Representations(ICLR) 2021
Wangchunshu Zhou*, Dong-Ho Lee*, Ravi Kiran Selvam, **Seyeon Lee**, Bill Yuchen Lin and Xiang Ren

WORK EXPERIENCE

INNERGBUS, Chicago, IL, U.S.A   **05/2017-06/2017**
Intern, Software Development Division

- Worked with web development team
- Developed websites for a range of divisions across the company using PHP, Javascript, HTML, CSS, AWS
- Contributed to the development of networking software by providing technical support

COMPUTER SKILLS

Programming Languages : Python, Swift, Java, C++, HTML, CSS, JavaScript, React, Django

HONORS & AWARDS

Full Tuition (Academic) Scholarship, Seoul Women's University	02/2018
Internship Scholarship, Seoul Women's University	09/2017
Exchange Student Scholarship, Seoul Women's University	08/2016
SWELL (English Course) Scholarship, Seoul Women's University	02/2016

ACTIVITIES

Volunteer, teaching math in a national shelter, Seoul, Korea	03/2018-06/2018
Member, Programming Study Club, Seoul, Korea	03/2018-06/2018
Member, English Club HaengDang-GMP, Seoul, Korea	07/2015-12/2017
Volunteer, TED-X, assisting stage management, Chicago, IL, U.S.A.	04/2017
Member, Cheering Squad S.W.U.R.S, Seoul, Korea	03/2014-10/2014