

Sewon Min

PH.D. STUDENT, PAUL G. ALLEN SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

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Research Interest

- Area of interest: *Natural Language Processing* and *Machine Learning*.
- Question answering, Reasoning, Dialogue, Semantics, Tasks over knowledge base, Text generation, Interaction with visual data, and Learning algorithms for language.

Education

University of Washington

Ph.D. Student in Computer Science and Engineering

- Advisers: Hannaneh Hajishirzi, Luke Zettlemoyer

Seattle, WA

Sep 2018 - Current

Seoul National University

B.S. in Computer Science and Engineering (Summa Cum Laude)

- Thesis Adviser: Gunhee Kim
- GPA : 4.12/4.30 (total), 4.19/4.30 (major), 1st Rank in CSE

Seoul, Korea

Mar 2014 - Aug 2018

University of Washington

Exchange Student

Seattle, WA

Sep - Dec 2016

Gyeonggi Science High School

Specialized high school for students talented in math and science

Suwon, Korea

Feb 2011 - Feb 2014

Publication

- [4] **Sewon Min**, Victor Zhong, Richard Socher, Caiming Xiong. "Efficient and Robust Question Answering from Minimal Context over Documents". In: *Proceedings of ACL (long)*. Melbourne, Australia. 2018.
- [3] Minjoon Seo*, **Sewon Min***, Ali Farhadi, Hannaneh Hajishirzi. "Neural Speed Reading via Skim-RNN". In: *Proceedings of ICLR*. Vancouver, Canada. 2018.
- [2] **Sewon Min**, Minjoon Seo, Hannaneh Hajishirzi. "Question Answering through Transfer Learning from Large Fine-grained Supervision Data". In: *Proceedings of ACL (short)*. Vancouver, Canada. 2017.
- [1] Minjoon Seo, **Sewon Min**, Ali Farhadi, Hannaneh Hajishirzi. "Query-Reduction Networks". In: *Proceedings of ICLR*. Toulon, France. 2017.

Research Experience

Salesforce Research

Research Intern (Advisers: Caiming Xiong, Richard Socher)

- Worked on efficient question answering with minimal context from given document. [4]

Palo Alto, CA

Nov 2017 - Feb 2018

University of Washington

Research Intern (Advisers: Hannaneh Hajishirzi, Ali Farhadi)

- Worked on Skim-RNN, which skims unimportant tokens when reading text. [3]
- Worked on transfer learning in question answering. Showed benefit of transfer learning from model trained on different large fine-grained dataset by achieving SOTA on WikiQA, SemEval2016-task3 & SICK using pre-trained model on SQuAD. [2]
- Worked on QRN, effectively handling questions requiring reasoning over multiple facts. Achieved SOTA on bAbI QA, bAbI dialog & DSTC2. [1]
- Developed interactive demonstrations of context-aware & open-domain QA.

Seattle, WA

Oct 2016 - Feb 2017

Seoul National University

Intern at Vision & Learning Lab (Adviser: Gunhee Kim)

- Implemented & developed model for image caption generation using model from "Show, Attend and Tell".

Seoul, Korea

Jul - Aug 2016

Seoul National University

Undergraduate Research Opportunity Program participant (Adviser: Sang-goo Lee)

Seoul, Korea

Feb - Jun 2016

- Implemented & developed model for entity linking from SNS (Twitter) to Knowledge Base (Wikipedia).

Honorship

DURING PHD

Doctoral Study Fellowship granted by Korea Foundation for Advanced Studies (KFAS)
Wissner-Slivka Endowed Graduate Fellowship granted by Paul G. Allen School

2018 - 2023

2018 - 2019

BEFORE PHD

Outstanding Undergraduate Thesis Award granted by CSE, Seoul National University
Full Scholarship for all semesters attended at Seoul National University (merit-based)
ICLR Travel Award
Google Travel Grants
Internship Abroad Support Fund granted by Seoul National University
Samsung Convergence Software Course Mentor Scholarship

2018

2014 - 2018

2018

2017, 2018

2017

2017

Skill

- Programming Language - **Python**; Java; C; Javascript
- Database Management System - SQL(Mysql, Postgresql)
Machine Learning Framework - **Tensorflow**; **PyTorch**; Theano
- Web Framework - Flask; Django

Professional Service

- Reviewer: NIPS 2018, ICLR 2018

Invited Talk

Kakao Brain
Samsung Advanced Institute of Technology
Naver corp.

Aug 2018

Aug 2018

Aug 2017

Teaching Experience

Mentor at Samsung Convergence Software Course

Mar - Jun 2017

- Help students with courses in computer science and engineering

Personal Tutor

Dec 2013 - Oct 2017

- Teach mathematics, physics, programming (Java; Python; Javascript) and computer science (Data Structure; Algorithm) to middle school, high school and university students.