Sewon **Min**

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

Box 352350, 185 NE Stevens Way, University of Washington, Seattle, WA, 98195

✉ sewon@cs.washington.edu | ⌂ https://shmsw25.github.io | ⓞ shmsw25 | ▼ @sewon__min | Ⓢ shmsw25

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 *Seattle, WA*
Ph.D. Student in Computer Science & Engineering *Sep 2018 - Current*
- Advisers: Hannaneh Hajishirzi, Luke Zettlemoyer

Seoul National University *Seoul, Korea*
B.S. in Computer Science & Engineering (Summa Cum Laude) *Mar 2014 - Aug 2018*
- Thesis Adviser: Gunhee Kim
- GPA : 4.12/4.30 (total), 4.19/4.30 (major), 1st Rank in CSE

University of Washington *Seattle, WA*
Exchange Student *Sep - Dec 2016*

Gyeonggi Science High School *Suwon, Korea*
Specialized high school for students talented in math and science *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 *Palo Alto, CA*
Research Intern (Advisers: Caiming Xiong, Richard Socher) *Nov 2017 - Feb 2018*
- Worked on efficient question answering with minimal context from given document. [4]

University of Washington *Seattle, QA*
Research Intern (Advisers: Hannaneh Hajishirzi, Ali Farhadi) *Oct 2016 - Feb 2017*
- 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 interative demonstrations of context-aware & open-domain QA.

Seoul National University *Seoul, Korea*
Intern at Vision & Learning Lab (Adviser: Gunhee Kim) *Jul - Aug 2016*
- Implemented & developed model for image caption generation using model from "Show, Attend and Tell".

Seoul National University *Seoul, Korea*
Undergraduate Research Opportunity Program participant (Adviser: Sang-goo Lee) *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) *2018 - 2023*
Wissner-Slivka Endowed Graduate Fellowship granted by Paul G. Allen School *2018 - 2019*

BEFORE PHD

Outstanding Undergraduate Thesis Award granted by CSE, Seoul National University *2018*
Full Scholarship for all semesters attended at Seoul National University (merit-based) *2014 - 2018*
ICLR Travel Award *2018*
Google Travel Grants *2017, 2018*
Internship Abroad Support Fund granted by Seoul National University *2017*
Samsung Convergence Software Course Mentor Scholarship *2017*

Skill

- Programming Language - **Python**; Java; C; Javascript
- Database Managament 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 *Aug 2018*
Samsung Advanced Institute of Technology *Aug 2018*
Naver corp. *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.