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*

Publications

[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 for Question Answering". 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, WA*
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 from large fine-grained data to coarse data. [2]
- Worked on QRN, effectively handling questions requiring reasoning over multiple facts. [1]
- Developed interative demonstrations of context-aware & open-domain QA using BiDAF.

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).

Honors & Awards

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*

Skills

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

Services

- Reviewer: NIPS (2018), ICLR (2019), AKBC (2019)
- Program Committee: Workshop on Machine Reading for Question Answering (EMNLP 2019)
- UW CSE Prospective Student Committee Chair (2019)

Invited Talks

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.

References

Hannaneh Hajishirzi, Ph.D.
- Assistant Professor, Paul G. Allen School of Computer Science & Engineering, University of Washington

Luke Zettlemoyer, Ph.D.
- Associate Professor, Paul G. Allen School of Computer Science & Engineering, University of Washington
- Research Scientist, Facebook

Gunhee Kim, Ph.D.
- Assistant Professor, Department of Computer Science & Engineering, Seoul National University