Sewon **Min**

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

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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

PEER-REVIEWED CONFERENCE PAPERS

[C7] **Sewon Min**, Danqi Chen, Hannaneh Hajishirzi, Luke Zettlemoyer. "A Discrete Hard EM Approach for Weakly Supervised Question Answering". In: *Proceedings of EMNLP (long)*. Hong Kong, China. 2019.

[C6] **Sewon Min**, Victor Zhong, Luke Zettlemoyer, Hannaneh Hajishirzi. "Multi-hop Reading Comprehension through Question Decomposition and Rescoring". In: *Proceedings of ACL (long)*. Florence, Italy. 2019.

[C5] **Sewon Min***, Eric Wallace*, Sameer Singh, Matt Gardner, Hannaneh Hajishirzi, Luke Zettlemoyer. "Compositional Questions Do Not Necessitate Multi-hop Reasoning". In: *Proceedings of ACL (short)*. Florence, Italy. 2019.

[C4] **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.

[C3] Minjoon Seo*, **Sewon Min***, Ali Farhadi, Hannaneh Hajishirzi. "Neural Speed Reading via Skim-RNN". In: *Proceedings of ICLR*. Vancouver, Canada. 2018.

[C2] **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.

[C1] Minjoon Seo, **Sewon Min**, Ali Farhadi, Hannaneh Hajishirzi. "Query-Reduction Networks for Question Answering". In: *Proceedings of ICLR*. Toulon, France. 2017.

PEER-REVIEWED WORKSHOP PAPERS

[W1] Matt Gardner, Jonathan Berant, Hannaneh Hajishirzi, Alon Talmor, **Sewon Min**. "On Making Reading Comprehension More Comprehensive". In: *Proceedings of Workshop on Machine Reading for Question Answering (MRQA) @ EMNLP (Survey paper)*. Hong Kong, China. 2019.

Research Experience

University of Washington   *Seattle, WA*
Ph.D. Student (Advisers: Hannaneh Hajishirzi, Luke Zettlemoyer)   *Sep 2018 - Current*
- Working on multi-hop QA [C5,6], weakly-supervised QA [C7] and open-domain QA (currently).

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. [C4]

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. [C3]
- Worked on transfer learning in question answering from large fine-grained data to coarse data. [C2]
- Worked on QRN, effectively handling questions requiring reasoning over multiple facts. [C1]
- 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.

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

Best 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*

Services

- Reviewer/Program Committee: NeurIPS 2018, ICLR 2019, AKBC 2019, NAACL 2019 (secondary), ACL 2019, EMNLP 2019, AAAI 2020, ICLR 2020
- Reviewer/Program Committee: Student Research Workshop (SRW @ ACL 2019), Workshop on Machine Reading for Question Answering (MRQA @ EMNLP 2019)
- UW CSE Prospective Student Committee Chair (2019)

Invited Talks

Kakao Brain, Korea *Aug 2018*
Samsung Advanced Institute of Technology, Korea *Aug 2018*
Naver corp., Korea *Aug 2017*

Courseworks

Courses at University of Washington (Selected)
- Principle of DBMS (CSE544, 2016); Natural Language Processing (CSE517, 2017 (auditing) & 2019) Machine Learning (CSE546, 2018); Data Visualization (CSE512, 2019); Advanced Natural Language Processing (CSE599d, 2019); Algorithms (CSE521, 2019)

Online Courses (Unofficial)
- Machine Learning (Stanford CS229, 2015); Convolutional Neural Networks for Visual Recognition (Stanford CS231n, 2016); Deep Learning for Natural Language Processing (Stanford CS224d, 2016)

Courses at Seoul National University (Selected)
- Intro. to Machine Learning (2015); Intro. to Data Mining (2016); Database (2016); Human Computer Interaction (2017); Generic Algorithms (2018)

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; Algorithms) 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

Danqi Chen, Ph.D.
- Assistant Professor, Department of Computer Science, Princeton University

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