

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
- Master's degree obtained in March 2020

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), graduated in 1st rank in CSE

University of Washington

Seattle, WA

Exchange Student

September - December 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.

PREPRINTS

- [P4] **Sewon Min**, Julian Michael, Hannaneh Hajishirzi, Luke Zettlemoyer. "AmbigQA: Answering Ambiguous Open-domain Questions". *arXiv preprint arXiv:2004.10645*. 2020.
- [P3] Vladimir Karpukhin*, Barlas Oguz*, **Sewon Min**, Ledell Wu, Sergey Edunov, Danqi Chen, Scott Wen-tau Yih. "Dense Passage Retrieval for Open-domain Question Answering". *arXiv preprint arXiv:2004.04906*. 2020.
- [P2] **Sewon Min**, Danqi Chen, Luke Zettlemoyer, Hannaneh Hajishirzi. "Knowledge Guided Text Retrieval and Reading for Open Domain Question Answering". *arXiv preprint arXiv:1911.03868*. 2020.
- [P1] Matt Gardner, Jonathan Berant, Hannaneh Hajishirzi, Alon Talmor, **Sewon Min**. "Question Answering is a Format; When is it Useful?". *arXiv preprint arXiv:1909.11291*. 2019.

Research Experience

University of Washington

Ph.D. Student (Supervisors: Hannaneh Hajishirzi, Luke Zettlemoyer)

Seattle, WA

Sep 2018 - Current

Facebook AI Research (FAIR)

Part-time Visiting Researcher (Supervisor: Luke Zettlemoyer)

Seattle, WA

Oct 2019 - Sep 2020 (Expected)

Salesforce Research (Metamind)

Research Intern (Supervisor: Caiming Xiong)

Palo Alto, CA

Nov 2017 - Feb 2018

University of Washington

Research Intern (Supervisors: Hannaneh Hajishirzi, Ali Farhadi)

Seattle, WA

Oct 2016 - Feb 2017

Seoul National University

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

Seoul, Korea

Jul - Aug 2016

Seoul National University

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

Seoul, Korea

Feb - Jun 2016

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

- Co-organizer: Competition on Efficient Open-Domain Question Answering (EfficientQA @ NeurIPS 2020)
- Co-organizer: Workshop on Unstructured and Structured KBs (USKB @ AKBC 2020)
- Reviewer/Program Committee: NeurIPS 2018, ICLR 2019, AKBC 2019, NAACL 2019 (secondary), ACL 2019, EMNLP 2019, AAAI 2020, ICLR 2020, ACL 2020, AKBC 2020, NeurIPS 2020, EMNLP 2020, AACL 2020

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

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 & 2020); Algorithms (CSE521, 2019); Artificial Intelligence (CSE573, 2020)

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); Genetic 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.