# Sewon **Min**

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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

[C11]  Belinda Z. Li, **Sewon Min**, Srinivasan Iyer, Yashar Mehdad and Wen-tau Yih. "Efficient One-Pass End-to-End Entity Linking for Questions". In: *Proceedings of EMNLP (short)*. 2020.

[C10]  **Sewon Min**, Julian Michael, Hannaneh Hajishirzi, Luke Zettlemoyer. "AmbigQA: Answering Ambiguous Open-domain Questions". In: *Proceedings of EMNLP (long)*. 2020. [pdf]

[C9]  Vladimir Karpukhin*, Barlas Oguz*, **Sewon Min**, Patrick Lewis, Ledell Wu, Sergey Edunov, Danqi Chen, Wen-tau Yih. "Dense Passage Retrieval for Open-domain Question Answering". In: *Proceedings of EMNLP (long)*. 2020. [pdf]

[C8]  Daniel Khashabi, **Sewon Min**, Tushar Khot, Ashish Sabharwal, Oyvind Tafjord, Peter Clark and Hannaneh Hajishirzi. "UnifiedQA: Crossing Format Boundaries With a Single QA System". In: *Proceedings of Findings of EMNLP (long)*. 2020.

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

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

[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)*. 2019. [pdf]

[C4]  **Sewon Min**, Victor Zhong, Richard Socher, Caiming Xiong. "Efficient and Robust Question Answering from Minimal Context over Documents". In: *Proceedings of ACL (long)*. 2018. [pdf]

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

[C2] **Sewon Min**, Minjoon Seo, Hannaneh Hajishirzi. "Question Answering through Transfer Learning from Large Fine-grained Supervision Data". In: *Proceedings of ACL (short)*. 2017. [pdf]

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

### 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*. 2019. [pdf]

### Preprints

[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. [pdf]

[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. [pdf]

## Research Experience

**University of Washington**                                         *Seattle, WA*
Ph.D. Student (Supervisors: Hannaneh Hajishirzi, Luke Zettlemoyer)    *Sep 2018 - Current*

**Google AI Research**                                               *Seattle, WA*
Research Intern (Supervisors: Kenton Lee, Kristina Toutanova)    *Sep - Dec 2020 (Expected)*

**Facebook AI Research (FAIR)**                                      *Seattle, WA*
Part-time Visiting Researcher (Supervisor: Luke Zettlemoyer)    *Oct 2019 - Sep 2020*

**Salesforce Research (Metamind)**                                   *Palo Alto, CA*
Research Intern (Supervisor: Caiming Xiong)                     *Nov 2017 - Feb 2018*

**University of Washington**                                         *Seattle, WA*
Research Intern (Supervisors: Hannaneh Hajishirzi, Ali Farhadi)    *Oct 2016 - Feb 2017*

**Seoul National University**                                        *Seoul, Korea*
Intern at Vision & Learning Lab (Supervisor: Gunhee Kim)         *Jul - Aug 2016*

**Seoul National University**                                        *Seoul, Korea*
Undergraduate Research Opportunity Program participant (Supervisor: Sang-goo Lee)    *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)
  - with Adam Roberts, Chris Alberti, Colin Raffel, Danqi Chen, Eunsol Choi, Hannaneh Hajishirzi, Jennimaria Palomaki, Jordan Boyd-Graber, Kelvin Guu, Kenton Lee, Michael Collins, Tom Kwiatkowski

- Co-organizer: Workshop on Unstructured and Structured KBs (USKB @ AKBC 2020)
  - with Danqi Chen, Rajarshi Das, Angela Fan, Siva Reddy, Pat Verga

- Reviewer/Program Committee
  - NLP/CL conferences: ACL (2019, 2020), EMNLP (2019, 2020), AKBC (2019, 2020), AACL (2020)
  - ML/AI conferences: NeurIPS (2018, 2020), ICLR (2019, 2020, 2021), AAAI (2020, 2021)
  - Workshops: Student Research Workshop (SRW @ ACL 2019, SRW @ ACL 2020, SRW @ AACL 2020, SRW @ EACL 2021), Workshop on Machine Reading for Question Answering (MRQA @ EMNLP 2019)
- 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*

- Program for non-major students with courses in computer science & 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.