

# Sewon Min

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

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## Education

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### University of Washington

Ph.D. Student in Computer Science & Engineering

Seattle, WA

Sep 2018 - Current

- Advisers: Hannaneh Hajishirzi, Luke Zettlemoyer
- Master's degree obtained in March 2020

### Seoul National University

B.S. in Computer Science & Engineering (Summa Cum Laude)

Seoul, Korea

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

Exchange Student

Seattle, WA

September - December 2016

### Gyeonggi Science High School

Specialized high school for students talented in math and science

Suwon, Korea

Feb 2011 - Feb 2014

## Publications

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### 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. [pdf]
- [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. [pdf]
- [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

- [P3] Srinivasan Iyer, **Sewon Min**, Yashar Mehdad and Wen-tau Yih. "ReConsider: Re-Ranking using Span-Focused Cross-Attention for Open Domain Question Answering". *arXiv preprint arXiv:2010.10757*. 2020. [\[pdf\]](#)
- [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*. 2019. [\[pdf\]](#)
- [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

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### University of Washington

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

[Seattle, WA](#)

Sep 2018 - Current

### Google AI Research

Research Intern (Supervisors: Kenton Lee, Kristina Toutanova)

[Seattle, WA](#)

Sep - Dec 2020 (Expected)

### Facebook AI Research (FAIR)

Part-time Visiting Researcher (Supervisor: Luke Zettlemoyer)

[Seattle, WA](#)

Oct 2019 - Sep 2020

### 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

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### DURING PHD

Doctoral Study Fellowship granted by Korea Foundation for Advanced Studies (KFAS)  
Wissner-Slivka Endowed Graduate Fellowship granted by Paul G. Allen School

2018 - 2023  
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

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- Co-organizer: The 3rd Workshop on Machine Reading for Question Answering (proposed at \*CL 2021)
  - with Danqi Chen, Eunsol Choi, Adam Fisch, Robin Jia, Patrick Lewis, Minjoon Seo, Alon Talmor
- 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), NAACL (2021), 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

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### 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

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### Teaching Assistant at University of Washington

- Natural Language Processing (CSE 447+571, 2021; Instructor: Noah Smith)

### 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.