

# Sewon Min

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

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## Education

### University of Washington

Ph.D. student in Computer Science & Engineering

M.S. in Computer Science & Engineering

- Advisers: Hannaneh Hajishirzi, Luke Zettlemoyer

Seattle, WA

Sep 2018 - Current

Mar 2020

### Seoul National University

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

- Thesis Adviser: Gunhee Kim
- GPA : 4.12/4.30 (total), 4.19/4.30 (major), Rank: 1st in CSE (class of 2018)

Seoul, Korea

Mar 2014 - Aug 2018

### University of Washington

Exchange student

Seattle, WA

Sep - Dec 2016

### Gyeonggi Science High School

Specialized high school for students talented in math and science

Suwon, Korea

Feb 2011 - Feb 2014

## Publications

\* denotes equal contributions

### PEER-REVIEWED CONFERENCE PAPERS

- [C15] **Sewon Min**, Kenton Lee, Ming-Wei Chang, Kristina Toutanova, Hannaneh Hajishirzi. “Joint Passage Ranking for Diverse Multi-Answer Retrieval”. In: *Proceedings of EMNLP (long)*. 2021. [pdf]
- [C14] **Sewon Min**, Jordan Boyd-Graber, Chris Alberti, Danqi Chen, Eunsol Choi, Michael Collins, Kelvin Guu, Hannaneh Hajishirzi, Kenton Lee, Jennimaria Palomaki, Colin Raffel, Adam Roberts, Tom Kwiatkowski (with EfficientQA participants). “NeurIPS 2020 EfficientQA Competition: Systems, Analyses and Lessons Learned”. In: *Proceedings of Machine Learning Research (PMLR)*. 2021. [pdf]
- [C13] Iz Beltagy, Arman Cohan, Hannaneh Hajishirzi, **Sewon Min**, Matthew E. Peters. “Beyond Paragraphs: NLP for Long Sequences”. *NAACL-HLT (Tutorial)*. 2021. [pdf]
- [C12] Srinivasan Iyer, **Sewon Min**, Yashar Mehdad, Wen-tau Yih. “ReConsider: Re-Ranking using Span-Focused Cross-Attention for Open Domain Question Answering”. In: *Proceedings of NAACL-HLT (short)*. 2021. [pdf]
- [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

- [P5] **Sewon Min**, Mike Lewis, Luke Zettlemoyer, Hannaneh Hajishirzi. “MetaICL: Learning to Learn In Context”. *arXiv preprint*. 2021. [\[pdf\]](#)
- [P4] **Sewon Min**, Mike Lewis, Hannaneh Hajishirzi, Luke Zettlemoyer. “Noisy Channel Language Model Prompting for Few-Shot Text Classification”. *arXiv preprint*. 2021. [\[pdf\]](#)
- [P3] Jungsoo Park\*, **Sewon Min\***, Jaewoo Kang, Luke Zettlemoyer, Hannaneh Hajishirzi. “FAVIQ: FAct Verification from Information-seeking Questions”. *arXiv preprint*. 2021. [\[pdf\]](#)
- [P2] **Sewon Min**, Danqi Chen, Luke Zettlemoyer, Hannaneh Hajishirzi. “Knowledge Guided Text Retrieval and Reading for Open Domain Question Answering”. *arXiv preprint*. 2019. [\[pdf\]](#)
- [P1] Matt Gardner, Jonathan Berant, Hannaneh Hajishirzi, Alon Talmor, **Sewon Min**. “Question Answering is a Format; When is it Useful?”. *arXiv preprint*. 2019. [\[pdf\]](#)

## Research Experience

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### University of Washington

Research assistant (Supervisors: Hannaneh Hajishirzi, Luke Zettlemoyer)

Seattle, WA

Sep 2018 - Current

### Facebook AI Research (FAIR)

Visiting researcher (Supervisor: Luke Zettlemoyer)

Seattle, WA

Oct 2019 - Aug 2020, Apr 2021 - Current

### Google AI Research

Research intern/student researcher (Supervisors: Kenton Lee, Kristina Toutanova)

Seattle, WA

Sep 2020 - Mar 2021

### 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)

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

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- Co-organizer: 7th Workshop on Representation Learning for NLP (Repl4NLP @ \*CL 2022) – under review [\[link\]](#)
- Co-organizer: Semiparametric Methods in NLP: Decoupling Logic from Knowledge (\*CL 2022) – under review [\[link\]](#)
- Co-organizer: The 3rd Workshop on Machine Reading for Question Answering (MRQA @ EMNLP 2021) [\[link\]](#)
- Co-organizer: The 2nd Workshop on Unstructured and Structured KBs (USKB @ AKBC 2021) [\[link\]](#)
- Co-organizer: Competition on Efficient Open-Domain Question Answering (EfficientQA @ NeurIPS 2020) [\[link\]](#)
- Co-organizer: Workshop on Unstructured and Structured KBs (USKB @ AKBC 2020) [\[link\]](#)
- Reviewer/Program Committee
  - \*CL/NLP conferences: ACL (2019, 2020, 2021), EMNLP (2019, 2020, 2021), AKBC (2019, 2020, 2021), AACL (2020), NAACL (2021), ACL Rolling Review (2021)
  - ML/AI conferences: NeurIPS (2018, 2020, 2021), ICLR (2019, 2020, 2021, 2022), AAAI (2020, 2021), ICML (2021)
  - Workshops: Student Research Workshop (SRW @ ACL 2019, SRW @ ACL 2020, SRW @ AACL 2020, SRW @ EACL 2021, SRW @ NAACL 2021, SRW @ ACL 2021), The 2nd Workshop on Machine Reading for Question Answering (MRQA @ EMNLP 2019), The 1st Workshop on NLP for Positive Impact (NLP4PI @ ACL 2021)
  - Competition Track, NeurIPS 2021
- UW CSE: Admission Committee Member for the Ph.D. Program (2021)
- UW CSE: Prospective Student Committee Co-Chair for the Ph.D. Program (2019)
- UW NLP: Student co-organizer of the Invited Talk Series (2021)
- UW NLP: Student co-organizer of the Retreat (2021)

## Invited Talks

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AIRS, Hyundai, Korea	Dec 2021
Facebook AI	Oct 2021
AI Summer School, Seoul National University, Korea	Aug 2021
Summer AI Seminar Series, Postech, Korea	Aug 2021
Colloquium Talk, Graduate School of AI at KAIST, Korea	Apr 2021
School of Electronic Engineering at KAIST, Korea	Feb 2021
Apple (Web Answers team), Seattle, WA	Sep 2020
Facebook NLP Summit, Question Answering Workshop	Aug 2020
Kakao Brain, Korea	Aug 2018
Samsung Advanced Institute of Technology, Korea	Aug 2018
NAVER, Korea	Aug 2017

## Teaching Experience

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**\*CL 2022 Tutorial: Few-shot Learning with Language Models – under review** 2022  
 • Co-taught with Iz Beltagy, Arman Cohan, Sameer Singh and Robert Logan

**NAACL 2021 Tutorial: Beyond Paragraphs: NLP for Long Sequences** Jun 2021  
 • Co-taught with Iz Beltagy, Arman Cohan, Hannaneh Hajishirzi and Matthew E. Peters

**Teaching assistant at University of Washington**  
 • CSE 447+517 Natural Language Processing (Instructor: Noah Smith) Winter 2021  
 ◦ In addition to typical TA role, oversee the 517 Reproducibility Project and guide submissions to the ML Reproducibility Challenge

**Research mentor for pre-doctoral students**  
 • Shane Lyu, an undergraduate at UW 2021-Current  
 • Jungsoo Park, a master student at Korea University; [P3]; now at NAVER Jan–July 2021  
 • Belinda Li, a software engineer at Facebook; [C11]; now a PhD student at MIT Feb–Aug 2020

**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.