Sewon Min

Paul G. Allen School of Computer Science & Engineering   Home: http://shmsw25.github.io/

University of Washington   Email: sewon@cs.washington.edu

185 NE Stevens Way   Github: [/shmsw25](https://github.com/shmsw25)

Seattle, WA 98195   Skype: shmsw25

Education

09/2018–Current	Ph.D. student, Computer Science & Engineering, University of Washington Supervisors: Hannaneh Hajishirzi, Luke Zettlemoyer
03/2020	M.Sc., Computer Science & Engineering, University of Washington
03/2014–08/2018	B.Sc., Computer Science & Engineering, Seoul National University Summa Cum Laude, Rank: 1st in the department
02/2011–02/2014	Gyeonggi Science High School

Employment

09/2018–Current	Research Assistant, University of Washington Supervisors: Hannaneh Hajishirzi, Luke Zettlemoyer
04/2021–Current, 10/2019–08/2020	Visiting researcher, Meta AI (formerly Facebook AI Research) Host: Luke Zettlemoyer
09/2020–03/2021	Research Intern/Student researcher, Google AI Research Hosts: Kenton Lee, Kristina Toutanova / Collaborator: Ming-Wei Chang
11/2017–02/2018	Research Intern, Salesforce Research (formerly Metamind) Host: Caiming Xiong
10/2016–02/2017	Undergraduate Research Assistant, University of Washington Supervisor: Hannaneh Hajishirzi
07/2016–08/2016	Undergraduate Intern, Vision & Learning Lab, Seoul National University Supervisor: Gunhee Kim

Publications

GScholar https://scholar.google.com/citations?user=jU4IZs4AAAAJ
Semantic Scholar https://www.semanticscholar.org/author/Sewon-Min/48872685

denotes equal contributions

Peer-Reviewed Conference/Journal Papers

[C22] Zeqiu Wu, Ryu Parish, Hao Cheng, **Sewon Min**, Prithviraj Ammanabrolu, Mari Ostendorf, Hannaneh Hajishirzi. "INSCIT: Information-Seeking Conversations with Mixed-Initiative Interactions ." In: *TACL (Conditionally Accepted)*. 2022. [pdf]

[C21] Chenglei Si, Chen Zhao, **Sewon Min**, Jordan Boyd-Graber. "Re-Examining Calibration: The Case of Question Answering." In: *Proceedings of Findings of EMNLP (long)*. 2022. [pdf]

[C20] Anas Awadalla, Mitchell Wortsman, Gabriel Ilharco, **Sewon Min**, Hannaneh Hajishirzi, Ludwig Schmidt. "Exploring The Landscape of Distributional Robustness for Question Answering Models." In: *Proceedings of Findings of EMNLP (long)*. 2022. [pdf]

[C19] **Sewon Min**, Xinxi Lyu, Ari Holtzman, Mikel Artetxe, Mike Lewis, Hannaneh Hajishirzi, Luke Zettlemoyer. "Rethinking the Role of Demonstrations: What makes In-context Learning Work?" In: *Proceedings of EMNLP (long)*. 2022. [pdf]

[C18] Daniel Khashabi, Xinxi Lyu, **Sewon Min**, Lianhui Qin, Kyle Richardson, Sameer Singh, Sean Welleck, Hannaneh Hajishirzi, Tushar Khot, Ashish Sabharwal, Yejin Choi. "Prompt Waywardness: The Curious Case of Discretized Interpretation of Continuous Prompts." In: *Proceedings of NAACL-HLT (long)*. 2022. [pdf]

[C17] **Sewon Min**, Mike Lewis, Luke Zettlemoyer, Hannaneh Hajishirzi. "MetaICL: Learning to Learn In Context." In: *Proceedings of NAACL-HLT (long)*. 2022. [pdf]

[C16] **Sewon Min**, Mike Lewis, Hannaneh Hajishirzi, Luke Zettlemoyer. "Noisy Channel Language Model Prompting for Few-Shot Text Classification." In: *Proceedings of ACL (long)*. 2022. [pdf]

[C15] Jungsoo Park*, **Sewon Min***, Jaewoo Kang, Luke Zettlemoyer, Hannaneh Hajishirzi. "FAVIQ: FAct Verification from Information-seeking Questions." In: *Proceedings of ACL (long)*. 2022. [pdf]

[C14] **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]

[C13] **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 Maching Learning Research (PMLR)*. 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]

Tutorials

[T2] Iz Beltagy, Arman Cohan, Robert L. Logan IV, **Sewon Min**, Sameer Singh. "Zero- and Few-Shot NLP with Pretrained Language Models." *ACL (Tutorial)*. 2022. [pdf]

[T1] Iz Beltagy, Arman Cohan, Hannaneh Hajishirzi, **Sewon Min**, Matthew E. Peters. "Beyond Paragraphs: NLP for Long Sequences." *NAACL-HLT (Tutorial)*. 2021. [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**, Weijia Shi, Mike Lewis, Xilun Chen, Wen-tau Yih, Hannaneh Hajishirzi, Luke Zettlemoyer. "Nonparametric Masked Language Modeling." *arXiv preprint*. 2022. [pdf]

[P4] Xinyan Velocity Yu, **Sewon Min**, Luke Zettlemoyer, Hannaneh Hajishirzi. "CREPE: Open-Domain Question Answering with False Presuppositions." *arXiv preprint*. 2022. [pdf]

[P3] Ofir Press, Muru Zhang, **Sewon Min**, Ludwig Schmidt, Noah A. Smith, Mike Lewis. "Measuring and Narrowing the Compositionality Gap in Language Models." *arXiv preprint*. 2022. [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]

Honors and Awards

2022	EECS Rising Stars
2022–2023	JP Morgan Ph.D. Fellowship
2018–2023	Doctoral Study Fellowship granted by Korea Foundation for Advanced Studies (KFAS)
2018–2019	Wissner-Slivka Endowed Graduate Fellowship granted by Paul G. Allen School
2018	Best Undergraduate Thesis Award granted by CSE, Seoul National University
2014–2018	Full Scholarship for all semesters attended at Seoul National University (merit-based)
2018	ICLR Travel Award
2017, 2018	Google Travel Grants
2017	Internship Abroad Support Fund granted by Seoul National University
2017	Samsung Convergence Software Course Mentor Scholarship

Professional Services

Workshop Co-organizer

ACL 2022	The 7th Workshop on Representation Learning for NLP (Repl4NLP)
ACL 2022	Semiparametric Methods in NLP: Decoupling Logic from Knowledge (Spa-NLP)
EMNLP 2021	The 3rd Workshop on Machine Reading for Question Answering (MRQA)

AKBC 2021	The 2nd Workshop on Unstructured and Structured KBs (USKB)
NeurIPS 2020	Competition on Efficient Open-Domain Question Answering (EfficientQA)
AKBC 2020	Workshop on Unstructured and Structured KBs (USKB)

Area Chair

COLING 2022	Inference and Question Answering track

Reviewer/Program Committee

† *denotes outstanding reviewer*

Journals:
- Transactions of the Association for Computational Linguistics (TACL): 2022
- Transactions on Machine Learning Research (TMLR): 2022

*CL/NLP conferences:
- ACL: 2019, 2020, 2021†
- EMNLP: 2019†, 2020, 2021†, 2022
- AKBC: 2019, 2020, 2021, 2022
- AACL: 2020
- NAACL: 2021
- ACL Rolling Review: 2021–

ML/AI conferences/journals:
- NeurIPS: 2018, 2020, 2021, 2022
- ICLR: 2019, 2020, 2021, 2022, 2023
- AAAI: 2020, 2021
- ICML: 2021

Workshops:
- Student Research Workshop: ACL 2019, ACL 2020, AACL 2020, EACL 2021, NAACL 2021, ACL 2021
- Workshop on Knowledge Retrieval and Language Models: ICML 2022
- Workshop on NLP for Positive Impact: ACL 2021, EMNLP 2022
- The 2nd Workshop on Machine Reading for Question Answering: EMNLP 2019

Competition Track, NeurIPS 2021

Departmental Service

2021, 2022	UW CSE: Admission Committee Member for the Ph.D. Program
2021	UW NLP: Student co-organizer of the Invited Talk Series
2021	UW NLP: Student co-organizer of the NLP Retreat
2019	UW CSE: Prospective Student Committee Co-Chair for the Ph.D. Program

Invited Talks

12/2022   Data Science & Business Analytics Lab, Korea University
Title: *Open-domain, Open-ended Question Answering*
Host: Pilsung Kang

10/2022   ISI NL Seminar, University of Southern California
Title: *Understanding and Improving Learning through Inference with Large Language Models*
Host: Jonathan May

07/2022   MLOPT Research Group, University of Wisconsin–Madison
Title: *Understanding and Improving Learning through Inference with Large Language Models*
Host: Kangwook Lee

04/2022   Language & Intelligence Lab, MIT
Title: *Understanding and Improving Learning through Inference with Large Language Models*
Host: Jacob Andreas

12/2021   Hyundai AIRS
Title: *Learning from limited data at inference time*
Host: Cheoneum Park

10/2021   Facebook AI
Title: *Learning from limited data at inference time*
Host: Zornitsa Kozareva

08/2021   AI Summer School, Seoul National University
Title: *Toward Real-world Natural Language Understanding*
Host: Hyun Oh Song

08/2021   Summer AI Seminar Series, Postech
Title: *Toward Real-world Natural Language Understanding*
Host: Gary Geunbae Lee

04/2021   Colloquium Talk, Graduate School of AI at KAIST
Title: *Answering Open-domain, Information-seeking Questions from Text*
Host: Juho Lee

02/2021   School of Electronic Engineering at KAIST
Title: *Answering Open-domain, Information-seeking Questions from Text*
Host: Sung-Ju Lee

09/2020   Apple (Web Answers team)
Hosts: Chris DuBois and Shayne Longpre

08/2020   Facebook NLP Summit, Question Answering Workshop
Host: Yashar Mehdad

08/2018   Kakao Brain
Host: Benjamin Lee

08/2018 Samsung Advanced Institute of Technology
      Host: Jehun Jeon

08/2017 NAVER
      Host: Sung Kim

Teaching

Tutorial Co-instructor

ACL 2022   Zero- and Few-Shot NLP with Pretrained Language Models
         with Iz Beltagy, Arman Cohan, Sameer Singh and Robert Logan

NAACL-HLT 2021 Beyond Paragraphs: NLP for Long Sequences
         with Iz Beltagy, Arman Cohan, Hannaneh Hajishirzi and Matthew E. Peters

Teaching Assistant

Spring 2022   CSE 573 Artificial Intelligence, University of Washington
         Instructor: Hannaneh Hajishirzi
         In addition to typical TA role, gave guest lectures and made assignments

Winter 2021   CSE 447+517 Natural Language Processing, University of Washington
         Instructor: Noah Smith
         In addition to typical TA role, oversaw the 517 Reproducibility Project and
         guided submissions to the ML Reproducibility Challenge

Student Mentoring

12/2021–Current Xinyan (Velocity) Yu, BS→MS student at UW

09/2021–Current Xinxi (Shane) Lyu, BS→MS student at UW

06/2021–12/2021 Skyler Hallinan, BS→MS student at UW

01/2021–07/2021 Jungsoo Park, MS student at Korea University; now at NAVER

02/2020–08/2020 Belinda Li, software engineer at Facebook; now a PhD student at MIT