Seo, Minjoon

Ph.D. Candidate @ UW CSE

Paul G. Allen School of Computer Science & Engineering
University of Washington
Box 352350 Seattle WA 98195-2350, United States

Email: seominjoon@gmail.com
Website: seominjoon.github.io
Phone: +82 10-9441-0759

Education

University of Washington   Sep 2013 – present
Ph.D. in Computer Science
Area: Natural Language Processing
Advisers: Hannaneh Hajishirzi, Ali Farhadi
Committee: Oren Etzioni, Gina Levow

University of Washington   Sep 2013 – Dec 2015
M.S. in Computer Science

University of California, Berkeley   Aug 2008 – May 2012
B.S. in Electrical Engineering & Computer Science
Cumulative GPA: 3.94/4.0

Conference Publications

[13] Jaemin Cho, Minjoon Seo, and Hannaneh Hajishirzi. "Mixture Content Selection for Diverse Sequence Generation". In: *EMNLP*. 2019.

[12] Minjoon Seo, Jinhyuk Lee, Tom Kwiatkowski, Ankur P Parikh, Ali Farhadi, and Hannaneh Hajishirzi. "Real-Time Open-Domain Question Answering with Dense-Sparse Phrase Index". In: *ACL*. 2019.

[11] Minjoon Seo, Tom Kwiatkowski, Ankur P Parikh, Ali Farhadi, and Hannaneh Hajishirzi. "Phrase-Indexed Question Answering: A New Challenge for Scalable Document Comprehension". In: *EMNLP*. 2018.

[10] Minjoon Seo, Sewon Min, Ali Farhadi, and Hannaneh Hajishirzi. "Neural speed reading via Skim-RNN". In: *ICLR*. 2018.

[9] Aniruddha Kembhavi, Minjoon Seo, Dustin Schwenk, Jonghyun Choi, Hannaneh Hajishirzi, and Ali Farhadi. "Are you smarter than a sixth grader? Textbook question answering for multimodal machine comprehension". In: *CVPR*. 2017.

[8] Omer Levy, Minjoon Seo, Eunsol Choi, and Luke Zettlemoyer. "Zero-shot relation extraction via reading comprehension". In: *CoNLL*. 2017.

[7] Sewon Min, Minjoon Seo, and Hannaneh Hajishirzi. "Question answering through transfer learning from fine-grained supervision data". In: *ACL*. 2017.

[6] Minjoon Seo, Aniruddha Kembhavi, Ali Farhadi, and Hannaneh Hajishirzi. "Bidirectional attention flow for machine comprehension". In: *ICLR*. 2017.

[5] Minjoon Seo, Sewon Min, Ali Farhadi, and Hannaneh Hajishirzi. "Query-reduction networks for question answering". In: *ICLR*. 2017.

[4] Aniruddha Kembhavi, Mike Salvato, Eric Kolve, Minjoon Seo, Hannaneh Hajishirzi, and Ali Farhadi. "A diagram is worth a dozen images". In: *ECCV*. 2016.

[3] Minjoon Seo, Hannaneh Hajishirzi, Ali Farhadi, Oren Etzioni, and Clint Malcolm. "Solving geometry problems: combining text and diagram interpretation". In: *EMNLP*. 2015.

[2] Lilian de Greef, Mayank Goel, Minjoon Seo, Eric C Larson, James W Stout, James A Taylor, and Shwetak N Patel. "Bilicam: using mobile phones to monitor newborn jaundice". In: *UbiComp*. 2014.

[1]   Minjoon Seo, Hannaneh Hajishirzi, Ali Farhadi, and Oren Etzioni. "Diagram understanding in geometry questions". In: *AAAI*. 2014.

Employment

NAVER @ Korea   Jan 2018 – present
Research Engineer
Working on semantic parsing, optical character recognition (OCR), and natural language understanding projects. Fulfilling mandatory military service.

Google @ New York City   Jun – Sep 2017
Research Intern (mentors: Tom Kwiatkowski, Ankur Parikh)
Worked on end-to-end open-domain question answering [11, 12] in Google AI Language Team.

Allen Institute for Artificial Intelligence   Jun – Sep 2016, Mar – Jun 2015, Jun – Sep 2014
Research Intern (mentors: Ali Farhadi, Ani Kembhavi, Oren Etzioni)
Worked on a neural question answering model, BiDAF, one of early state-of-the-art systems on SQuAD [6]. Also worked on an automated solver for geometry problems of the US college entrance exam (SAT) [1, 3].

Seoul National University @ Seoul, Korea   Aug – Sep 2013
Research Intern (adviser: Young-gil Shin)
Devised a Markov-chain-based algorithm for slice-matching the medical images of patient torsos.

Oracle @ Santa Clara   Aug 2012 – May 2013
Software Engineer
Developed tools for verifying the operating system of Oracle's enterprise switches.

Symantec @ Mountain View   May – Aug 2011
Software Engineering Intern
Developed tools for debugging Symantec Enterprise Protection.

Honors and Awards

- Facebook Fellowship, 2019
- AI2 Key Scientific Challenges Award, 2018
- Travel Award: ICLR 2018, ICLR 2017
- Best Paper Nomination: UbiComp 2014 [2]
- Graduated with Highest Honors (Summa cum Laude), UC Berkeley, 2012

Services

- Organizer: 2nd Workshop on Machine Reading for Question Answering (MRQA) at EMNLP 2019
- Organizer: 1st Workshop on Machine Reading for Question Answering (MRQA) at ACL 2018
- Organizer: Tutorial on Standardized Tests as Benchmark for AI at EMNLP 2018
- Area Chair: QA & Reasoning at AKBC 2020
- Reviewer: ACL, EMNLP, NAACL, ICLR, NeurIPS, CVPR, TKDE, COLING, CoNLL, AAAI, RepL4NLP
- Teaching Assistant: Graduate Natural Language Processing (Wi 2017)
- Admission Committee: UW CSE Ph.D. Program (2018, 2017)
- Organizing Committee: UW NLP Retreat (2017)

Invited Talks

- KAIST (28 Mar 2019)
- Microsoft Research (4 May 2018)
- IBM Research (15 Feb 2018)
- PyTorch Korea (21 Jan 2018)
- University of Southern California (10 Oct 2017)
- Samsung Advanced Institute of Technology (31 May 2017)
- Qualcomm Korea (30 May 2017)
- Seoul National University (30 May 2017)
- Rework Machine Intelligence Summit @ San Francisco (23 Mar 2017)
- University of Washington & Microsoft Research NLP Symposium (2 Dec 2016)
- Samsung Software Center (26 Sep 2016)