Seo, Minjoon

Ph.D. Student, UW CSE

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Education

University of Washington   Sep 2013 –
Ph.D. in Computer Science
Advisers: Hannaneh Hajishirzi, Ali Farhadi, Oren Etzioni

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

Employment

Allen Institute for Artificial Intelligence   June – Sep 2016
Research Intern (advisers: Ani kembhavi, Ali Farhadi)
Devised a deep learning model for machine comprehension task that uses bi-attention flow to effectively link and fuse information from both context paragraph and question [6]. It achieved the state of the art results on Stanford Question Answering Dataset (SQuAD) hidden test data as well as on CNN/DailyMail test data, as of Nov 1, 2016.

Allen Institute for Artificial Intelligence   Mar – June 2015, June – Sept 2014
Research Intern (advisers: Ali Farhadi, Oren Etzioni)
Participated in Project Euclid and devised an end-to-end system that solves geometry problems in college entrance exam (SAT) with SAT score of 49% [4]. Also worked on the project as a research assistant in University of Washington. Details in `geometry.allenai.org`.

Seoul National University, Korea   Aug – Sept 2013
Research Intern (adviser: Young-gil Shin)
Devised a Markov-chain-based algorithm for slice-matching the medical images of patient torsos with accuracy of 95%.

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

Symantec Corporation   May 2011 – Aug 2011
Software Engineering Intern
Developed tools for debugging Semantic Enterprise Protection.

Publications

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

[6] Minjoon Seo, Aniruddha Kembhavi, Ali Farhadi, and Hannaneh Hajishirzi. "Bidirectional attention flow for machine comprehension". In: *arXiv preprint arXiv:1611.01603* (Nov. 2016).

[5] Minjoon Seo, Ali Farhadi, and Hannaneh Hajishirzi. "Query-regression networks for machine comprehension". In: *arXiv preprint arXiv:1606.04582* (June 2016).

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

[3] 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: *Proceedings of UbiComp*. 2014.

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

[1] David Moore, Kevin Mayeda, Steve Myers, Minjoon Seo, and Stuart Russell. "Progress in signal-based bayesian monitoring". In: *Proceedings of the 2012 monitoring research review: ground-based nuclear explosion monitoring technologies*. 2012.

Honors and Awards

- Best Paper Nomination [3], UbiComp 2014
- Graduated with Highest Honors (Summa cum Laude), UC Berkeley, 2012

Graduate Coursework

Natural Language Processing; Machine Learning; Computer Vision; Artificial Intelligence; Database Management System; Applied Algorithms; Approximation Algorithms; Computer-aided Reasoning (Programming Language)

Services

- Reviewer: EACL (2017), NIPS (2016), ACL (2016), NAACL-HLT SRW (2016)
- Subreviewer: EMNLP (2016), ECCV (2016), AAAI (2014, 2015, 2016)

References

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Ali Farhadi
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