

Department of Computer Science & Engineering  
University of Washington  
Box 352350 Seattle WA 98195-2350

*Email:* minjoon@cs.washington.edu  
*Website:* seominjoon.github.io  
*Phone:* (510) 898-8788

## 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** Jun – 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) test data, as of Nov 28, 2016. Details in [allenai.github.io/bi-att-flow](https://allenai.github.io/bi-att-flow)

**Allen Institute for Artificial Intelligence** Mar – Jun 2015, Jun – Sep 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](https://geometry.allenai.org).

**Seoul National University, 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 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

## Talks

- University of Washington / Microsoft Research NLP Symposium, 2 Dec 2016
- Samsung AI Lab, 29 Sep 2016
- SK T-Brain, 21 Sep 2016

## Services

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

## Graduate Coursework

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

## References

### Hannaneh Hajishirzi

Assistant Research Professor, University of Washington  
[hannaneh@u.washington.edu](mailto:hannaneh@u.washington.edu)

### Ali Farhadi

Assistant Professor, University of Washington  
[ali@cs.washington.edu](mailto:ali@cs.washington.edu)

### Oren Etzioni

Chief Executive Officer, Allen Institute for Artificial Intelligence  
[orene@allenai.org](mailto:orene@allenai.org)