

Department of Computer Science & Engineering  
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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

## 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 question answering”. 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.

## 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](http://geometry.allenai.org).

**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 with accuracy of 95%.

**Oracle Corporation** @ Santa Clara, United States

Aug 2012 – May 2013

*Software Engineer*

Developed tools for verifying the operating system of Oracle’s switches.

**Symantec Corporation** @ Mountain View, United States

May 2011 – Aug 2011

*Software Engineering Intern*

Developed tools for debugging Semantic Enterprise Protection.

## Honors and Awards

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

## Invited Talks

- University of Washington / Microsoft Research NLP Symposium @ Seattle, United States (2 Dec 2016)
- Samsung AI Lab @ Seoul, Korea (29 Sep 2016)
- SK T-Brain @ Seoul, Korea (21 Sep 2016)

## Services

- Reviewer: NIPS (2016), ACL (2016), NAACL-HLT SRW (2016)
- Subreviewer: EMNLP (2016), ECCV (2016), AAAI (2014, 2015, 2016)
- Teaching Assistant: Graduate Natural Language Processing (Wi 2017)
- Ph.D. Admission Committee Student Reader (2017)

## Graduate Coursework

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

## References

**Hannaneh Hajishirzi**

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[hannaneh@u.washington.edu](mailto:hannaneh@u.washington.edu)

**Ali Farhadi**

Assistant Professor, University of Washington  
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**Oren Etzioni**

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