

Sewon Min

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RESEARCH INTEREST

Natural Language Understanding – question answering; machine comprehension; dialog; generation

Machine Learning – deep learning; interactive learning; statistical machine learning; optimization

Computer Vision – interaction between visual data and language

EDUCATION

Seoul National University, Seoul, Korea Mar 2014 - Aug 2018 (Expected)

B.S. in Computer Science and Engineering

Current GPA : 4.11/4.30(total), 4.18/4.30(major), 4.24/4.30(upper)

University of Washington, Seattle, WA Sep - Dec 2016

Exchange Student

Gyeonggi Science High School, Suwon, Korea Feb 2011 - Feb 2014

Special-purposed high school for students talented in math and science

PUBLICATION

[3] Minjoon Seo*, **Sewon Min***, Ali Farhadi, Hannaneh Hajishirzi. “Neural Speed Reading via Skim-RNN”. 2017. (Under Review at ICLR)

[2] **Sewon Min**, Minjoon Seo, Hannaneh Hajishirzi. “Question Answering through Transfer Learning from Large Fine-grained Supervision Data”. In: *Proceedings of ACL (short)*. 2017.

[1] Minjoon Seo, **Sewon Min**, Ali Farhadi, Hannaneh Hajishirzi. “Query-Reduction Networks”. In: *Proceedings of ICLR*. 2017.

HONORSHIP

Doctoral Study Abroad Program Scholarship granted by Korea Foundation for Advanced Studies (KFAS), awarded to qualified students to complete their doctorates Sep 2018 - Jun 2023 (Expected)

Internship Abroad Support Fund granted by Seoul National Univ. Aug 2017

Google Travel Grants for attending ACL Jul 2017

Samsung Convergence Software Course Mentor Scholarship Mar - Jun 2017

Full Scholarship for all semesters attended at Seoul National Univ. (merit-based) Mar 2014 - Dec 2017

RESEARCH EXPERIENCE

Salesforce Inc., Palo Alto, CA Nov 2017 - Feb 2018 (Expected)

Research Intern at Einstein Team (Previously Metamind)

University of Washington, Seattle, WA Oct 2016 - Feb 2017

Research Intern (Advisers: Minjoon Seo, Prof. Hannaneh Hajishirzi, Prof. Ali Farhadi)

- Evaluate variant of RNN (QRN), proposed to handle questions requiring reasoning over multiple facts. Achieve SOTA on bAbI QA, bAbI dialog & DSTC2. [1]
- Show that QA task can benefit from the transfer learning of models trained on different large, fine-grained dataset (SQuAD). Achieve SOTA on WikiQA, SemEval2016-task3 & SICK. [2]
- Design model with variant of RNN (Skim-RNN), proposed to skim text. Achieve speed gain with reasonable performance (above baseline or SOTA) on Text Classification (SST and 3 others) & QA (CBT, SQuAD), with some training & inference techniques. [3]
- Develop interactive demonstrations of context-aware & open-domain QA.

Seoul National University, *Seoul, Korea*

Jul - Aug 2016

Intern at Vision and Learning Lab (Adviser: Prof. Gunhee Kim)

- Implement & develop model for image caption generation using model from “Show, Attend and Tell”.

Seoul National University, *Seoul, Korea*

Feb - Jun 2016

Undergraduate Research Opportunity Program participant (Adviser: Prof. Sang-goo Lee)

- Implement & develop model for entity linking from SNS (Twitter) to Knowledge Base (Wikipedia).

SKILL

Programming Language - **Python**; Java; C; Javascript

Database Management System - SQL(Mysql, Postgresql)

Machine Learning Framework - **Tensorflow**; PyTorch; Theano

Web Framework - Flask; Django

TALK & PRESENTATION

SK AI Symposium, *Seoul, Korea* (Poster)

Sep 2017

Naver corp., *Seongnam, Korea* (Invited talk)

Aug 2017

ACL, *Vancouver, Canada* (Poster)

Aug 2017

RELEVANT COURSES

Online Courses (Unofficial): Machine Learning (Stanford CS229, 2015); Convolutional Neural Networks for Visual Recognition (Stanford CS231n, 2016); Deep Learning for Natural Language Processing (Stanford CS224d, 2016); Deep Reinforcement Learning (UC Berkeley CS294, 2017)

Courses in Seoul National University (Selected): Intro. to Machine Learning (4190.428, 2015); Intro. to Data Mining (M1522.001400, 2016); Database (4190.301, 2016)

Courses in University of Washington (Selected): Principle of DBMS (CSE544, *Graduate level*, 2016); Natural Language Processing (CSE517, *Graduate level*, 2017, auditing)

TEACHING EXPERIENCE

Mentor at Samsung Convergence Software Course

Mar - Jun 2017

Help students with courses in computer science and engineering

Personal Tutor

Dec 2013 - Oct 2017

Teach mathematics, physics, programming (Java; Python; Javascript) and computer science (data structure; algorithm)