

Bo-Ru (Roy) Lu

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Research Interests

I am generally interested in machine learning and deep learning for language and speech processing, especially in natural language generation and conversational AI. My recent research topic is focusing on conversational machine reading.

Education

- **University of Washington**, Seattle, WA Sep. 2018 - present
Ph.D. in Electrical & Computer Engineering
Advisor: Dr. Mari Ostendorf
- **National Taiwan University**, Taipei, Taiwan Sep. 2016 - Jul. 2018
M.S. in Communication Engineering
Advisors: Dr. Lin-Shan Lee and Dr. Hung-Yi Lee
Overall GPA: 4.00/4.00
- **National Taiwan University**, Taipei, Taiwan Sep. 2012 - Jun. 2016
B.S. in Electrical Engineering
Last 60 GPA: 4.00/4.00
CS relevant coursework GPA: 4.00/4.00

Publications

- **Bo-Ru Lu**. (2019) Improved Conversational Machine Reading Using Neural Entailment Scores. Technical Report.
- **Bo-Ru Lu**, Frank Shyu, Yun-Nung Chen, Hung-Yi Lee, Lin-Shan Lee. (2017) Order-Preserving Abstractive Summarization for Spoken Content Based on Connectionist Temporal Classification. INTERSPEECH 2017.

Research Experiences

- **Transformation, Interpretation & Analysis of Language Group**, University of Washington
Research Assistant, supervised by Dr. Mari Ostendorf Sep. 2018 - Present
Improved conversational machine reading using neural entailment scores.
- **Natural Language Processing Team**, Apple Inc.
Machine Learning Intern Jan. 2018 - Apr. 2018
Using deep learning models to develop a new input method for iOS 13.
- **Speech Processing Lab**, National Taiwan University
Research Assistant, supervised by Dr. Lin-Shan Lee and Dr. Hung-Yi Lee Feb. 2015 - Jul. 2016
phoneme recognition & attention-based models for text documents and spoken content summarization.

Awards and Honors

- **Government Scholarship for Studying Abroad**, Ministry of Education, Taiwan Sep. 2018
- **Long-Term Fellowship for Cultivating Elite Students**, Hsing Tian Kong, Taiwan Dec. 2017
Fellowship to support elite students with the acceptance rate of 0.1%.
- **Advanced Speech Technologies Scholarship**, National Taiwan University, Taiwan Sep. 2017
Recognizes students with excellent academic performance in speech processing (3 recipients in the year).
- **International Speech and Communication Association Student Travel Grants**, ISCA Aug. 2017
- **NTU Electrical Engineering 1960 Alumni Scholarship**, National Taiwan University, Taiwan Sep. 2015
Recognizes undergraduates in EE with excellent academic performance (2 recipients a year).

Skills

- **Languages:** Mandarin (native), English (professional working proficiency)
- **Programming Languages:** Python, Shell Script, C/C++
- **Operating System:** Linux, Mac OSX
- **Libraries/Toolkits:** PyTorch, Tensorflow, Scikit-learn, NLTK, AllenNLP
- **Tools:** Git, Vim, HTCondor, L^AT_EX

Last updated: March 9, 2020