Bo Ru (Roy) Lu

University of Washington Seattle, WA

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Research Interests

Deep learning and its applications on language and speech processing.

Education

 University of Washington, Seattle, WA Ph.D. in Electrical & Computer Engineering

Advisor: Prof. Mari Ostendorf

· National Taiwan University, Taipei, Taiwan

M.S. in Communication Engineering

Advisor: Prof. Lin-Shan Lee & Prof. Hung-Yi Lee

Overall GPA: 4.00/4.00

Last 60 GPA: 4.00/4.00

Relevant coursework GPA: 4.00/4.00

National Taiwan University, Taipei, Taiwan

B.S. in Electrical Engineering Overall GPA: 3.65/4.00

Relevant coursework GPA: 4.00/4.00

Sep. 2018 - present

Sep. 2016 - Jul. 2018

Sep. 2012 - Jun. 2016

Publications

· B. R. Lu, F. Shyu, Y.-N. Chen, H.-Y. Lee, L.-S. Lee. "Order-Preserving Abstractive Summarization for Spoken Content Based on Connectionist Temporal Classification," in INTERSPEECH 2017.

Awards and Honors

· Government Scholarship for Studying Abroad, Ministry of Education

Sep. 2018

 Hsing Tian Kong Long-Term Fellowship for Cultivating Elite Students, Hsing Tian Kong Fellowship to support elite students with acceptance rate of 0.1%.

Dec. 2017

 Advanced Speech Technologies Scholarship, NTU Recognizes students with excellent academic performance in speech processing (3 recipients in the year).

Sep. 2017

· International Speech and Communication Association Student Travel Grants, ISCA

Aug. 2017

· NTU Electrical Engineering 1960 Alumni Scholarship, NTU

Sep. 2015

Recognizes undergraduates in EE with excellent academic performance (2 recipients a year).

Research Experiences

· Applied research intern, NLP team, Apple Inc., Cupertino, CA Manager: Dr. Jerome Bellegarda & Xin Wang Improved and developed IOS input methods.

Jan. 2018 - Apr. 2018

• Research assistant, Speech Processing Lab, NTU, Taipei, Taiwan. Feb. 2015 - Jul. 2016 phoneme recognition & attention-based models for text documents and spoken content.

 Second-Round Reviewer INTERSPEECH 2017, ICASSP 2017, ICJNLP 2017, EMNLP 2017. Bo Ru (Roy) Lu 2

Teaching Experiences

· CSIE 5440, Intelligent Conversational Bot

Jan. 2017 - Jun. 2017

Instructor: Prof. Yun-Nung (Vivian) Chen

Guided and advised 15 students to develop their chatbot systems.

· EE 5177, Machine Learning

Sep. 2016 - Jun. 2017

Instructor: Prof. Hung-Yi Lee

Lead TA: led the team of 13 TAs and tutored 278 students in the course. Built the automatic grading system to grade programming assignments.

· CSIE 5431, Applied Deep Learning

Sep. 2016 - Jan. 2017

Instructor: Prof. Yun-Nung (Vivian) Chen

Coached students in deep reinforcement learning and designed a DQN programming assignment.

Term Projects

· Movie Bot Jun. 2017

CSIE 5440, Intelligent Conversational Bot

Conditional language generation: generated a sentence according to users' current emotion.

Visual Question Answering

Jan. 2016

CommE 5045, Machine Learning and Having It Deep and Structured

Designed a combined network of LSTM and CNN for answering multiple-choice questions about images.

· Spoken Term Detection Using Dynamic Time Wrapping

Jun. 2015

EE 4049, Introduction to Digital Speech Processing.

Modified and designed a DTW algorithm to reduce retrieval time without reducing performance.

Relevant Coursework

· Machine Learning and langauge & speech processing

Digital Speech Processing*, Applied Deep Learning*, Deep and Structured Learning*, Intelligent Conversational Bot*, Machine Learning*, Data Science*, Web Retrieval and Mining*, Multimedia Analysis and Indexing*

· Computer Science

Operating Systems, Systems Programming, the Design and Analysis of Algorithms*, Algorithms, Data Structure, Embedded System, Computer Networks, Introduction to Computer, Computer Programming

* donotes graduate-level course.

Skills

- Languags: Mandarin (native), English (professional working proficiency)
- **Programming Languages:** Python (familiar), Shell Script (familiar), C/C++, LATEX
- · Tools: PyTorch, Tensorflow, Kaldi, Git

Last updated: October 28, 2018