Do June Min

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Education

University of Michigan
PhD Candidate in Computer Science
Start Date: Fall Semester, 2020

University of Michigan
MS in Computer Science
GPA: 3.934, Graduation Date: May 2020

Swarthmore College
BSc, Double Major in Computer Science and Mathematics
GPA: 3.86, Graduation Date: May 2018

Korean Minjok Leadership Academy
Graduation Date: February 2012

Academic Experience

Research at Language and Information Technologies, University of Michigan with Professor Rada Mihalcea, Dr Veronica Perez-Rosas
Topic: Analyzing Patient-Nurse Conversations in a Comparative Effectiveness Study for Glycemia Reduction Approaches in Diabetes
September 2019 - Present

Summer Research at Swarthmore College
Topic: Cybersecurity game model with imperfect observation
May 2017 - August 2017

Work Experience

Amazon Alexa, Seattle
Applied Science Intern
Project & Paper: Adaptive Endpointing for Automatic Speech Transcription (Work in progress, first author)
May 2022 - August 2022

University of Michigan
Research Assistant on NIH-funded project
Project: Analyzing Patient-Nurse Conversations in a Comparative Effectiveness Study for Glycemia Reduction Approaches in Diabetes
September 2019 - July 2020

Samsung Research Center, Seoul
Intern, Smart Mobile Application Development Team
Project: Human Activity Recognition with Smartphones for SmartHome App
June 2016 - August 2016

Awards and Fellowships

Surdna Foundation Fellowship
Granted for Summer Research with Swarthmore Faculty Member, 2017

Member of Sigma Xi, The Scientific Research Honor Society
Inducted for Research Work with Faculty Member, 2017

Projects

Better Generalization of Counselor Response Generation to Unseen Topics with Reinforcement Learning (Work in Progress, first author)
Developed a policy gradient-based RL framework in conjunction with a custom-designed reward model for generating counselor reflections in the Motivational Interviewing (MI) framework

Research: Insights from Attacking Interpretable Models
Investigated Style Transfer and Input Thresholding as a means to make deep learning models more robust against adversarial attacks on images

Research: Using NEAT + ES to Play Games
Approached the problem of playing "Flappy Bird" game via evolutionary strategy along with the neuroevolution of augmenting topologies method.

Development: Finite State Transducer for Korean in Apertium
Developed a tool for morphological analysis and generation, and Part-Of-Speech tagging of Korean

Languages And Skills

- Languages: Korean (native), English (Proficient)
- Programming Languages: Python, C++, Java
- Machine Learning Framework: PyTorch, Tensorflow, Keras

Research Interests

Machine Learning, Natural Language Processing, Conversational Understanding & Generation, Reinforcement Learning & NLP

Publication

1. Do June Min, Verónica Pérez-Rosas, Shihchen Kuo, William H. Herman, and Rada Mihalcea. UPSTAGE: Unsupervised context augmentation for utterance classification in patient-provider communication. *Proceedings of Machine Learning Research*, 2020

2. Do June Min, Verónica Pérez-Rosas, and Rada Mihalcea. Evaluating automatic speech recognition quality and its impact on counselor utterance coding. In *Proceedings of the Seventh Workshop on Computational Linguistics and Clinical Psychology: Improving Access*, pages 159–168, Online, June 2021. Association for Computational Linguistics

3. Do June Min, Verónica Pérez-Rosas, Kenneth Resnicow, and Rada Mihalcea. PAIR: Prompt-aware margin ranking for counselor reflection scoring in motivational interviewing. In *Accepted for publication at the 2022 Conference on Empirical Methods in Natural Language Processing*