Do June Min

University of Michigan
Department of Electrical Engineering and Computer Science
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Education

University of Michigan *2020 -*
PhD Candidate in Computer Science

University of Michigan *2020 - 2022*
MS in Computer Science, GPA: 3.934

Swarthmore College *2012 - 2018*
BSc, Computer Science & Mathematics, GPA: 3.86

Korean Minjok Leadership Academy *2009 - 2012*

Research Experience

Research at Language and Information Technologies, University of Michigan with Professor Rada Mihalcea, Dr Veronica Perez-Rosas *09/2019 -*
Topic: Analyzing Patient-Nurse Conversations in a Comparative Effectiveness Study for Glycemia Reduction Approaches in Diabetes

Undergraduate Research at Swarthmore College *05/2017 - 08/2017*
Topic: Cybersecurity game model with imperfect observation

Better Generalization of Counselor Response Generation to Unseen Topics with Reinforcement Learning
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

Work Experience

Amazon Alexa, Seattle *05/2022 - 08/2022*
Applied Science Intern
Project: Adaptive Endpointing for Automatic Speech Transcription for Voice Assistants

University of Michigan *09/2019 -*
Research Assistant on NIH-funded project
Project: Analyzing Patient-Nurse Conversations in a Comparative Effectiveness Study for Glycemia Reduction Approaches in Diabetes

Samsung Research Center, Seoul *06/2016 - 08/2016*
Intern, Smart Mobile Application Development Team
Project: Human Activity Recognition with Smartphones for SmartHome App

Awards and Fellowships

Surdna Foundation Fellowship
Granted for Undergraduate Research, 2017

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

Research Interests

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

Publications

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

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*, 2021

3. Do June Min, Veronica Perez-Rosas, Shihchen Kuo, William H. Herman, and Rada Mihalcea. UPSTAGE: Unsupervised context augmentation for utterance classification in patient-provider communication. In *Proceedings of the 5th Machine Learning for Healthcare Conference*, 2020

4. Do June Min, Andreas Stolcke, Anirudh Raju, Colin Vaz, Di He, Venkatesh Ravichandran, and Viet Anh Trinh. Adaptive endpointing with deep contextual multi-armed bandits. Under review at *2023 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*

Languages And Skills

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