Do June Min

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https://mindojune.github.io/

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

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

Project: 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

Project: 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

Project: 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.

Project: 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 recognition for voice assistants

Samsung Research Center, Seoul *06/2016 - 08/2016*
Intern, Smart Mobile Application Development Team
Project: Human activity recognition with smartphones for the SmartHome App by Samsung

Awards and Fellowships

Surdna Foundation Fellowship *2017*
Granted for undergraduate research in computer science

Member of Sigma Xi, The Scientific Research Honor Society *2017*
Inducted for undergraduate research work

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)*

5. Do June Min, Verónica Pérez-Rosas, and Rada Mihalcea. Dialog-aware pretraining for utterance classification in medical conversations. 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