

Do June Min

University of Michigan

Department of Electrical Engineering and Computer Science

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<https://mindojune.github.io/>

Education	University of Michigan PhD Candidate in Computer Science	<i>2020 -</i>
	University of Michigan MS in Computer Science, GPA: 3.934	<i>2020 - 2022</i>
	Swarthmore College BSc, Computer Science & Mathematics, GPA: 3.86	<i>2012 - 2018</i>
	Korean Minjok Leadership Academy	<i>2009 - 2012</i>
Research 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	<i>09/2019 -</i>
	Undergraduate Research at Swarthmore College Topic: Cybersecurity game model with imperfect observation	<i>05/2017 - 08/2017</i>
	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	
	Amazon Alexa, Seattle Applied Science Intern Project: Adaptive Endpointing for Automatic Speech Transcription for Voice Assistants	<i>05/2022 - 08/2022</i>

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 Surdna Foundation Fellowship

Fellowships 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