

# Do June Min

University of Michigan

Department of Electrical Engineering and Computer Science

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

<b>Education</b>	<b>University of Michigan</b> PhD Candidate in Computer Science	<i>2020 -</i>
	<b>University of Michigan</b> MS in Computer Science, GPA: 3.934	<i>2020 - 2022</i>
	<b>Swarthmore College</b> BSc, Computer Science & Mathematics, GPA: 3.86	<i>2012 - 2018</i>
	<b>Korean Minjok Leadership Academy</b>	<i>2009 - 2012</i>
<b>Research Experience</b>	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>
	<b>Better Generalization of Counselor Response Generation to Unseen Topics with Reinforcement Learning</b> 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	
	<b>Research: Insights from Attacking Interpretable Models</b> Investigated Style Transfer and Input Thresholding as a means to make deep learning models more robust against adversarial attacks on images	
	<b>Research: Using NEAT + ES to Play Games</b> Approached the problem of playing “Flappy Bird” game via evolutionary strategy along with the neuroevolution of augmenting topologies method.	
	<b>Development: Finite State Transducer for Korean in Apertium</b> Developed a tool for morphological analysis and generation, and Part-Of-Speech tagging of Korean	
<b>Work Experience</b>	<b>Amazon Alexa, Seattle</b> 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 &amp; Generation, Reinforcement Learning &amp; NLP

**Publications**

1. 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)*
2. 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
3. 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
4. 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

**Languages  
And Skills**

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