Do June Min

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https://mindojune.github.io/

Education

University of Michigan *08/2020 -*
PhD Candidate in Computer Science

University of Michigan *08/2018 - 04/2020*
MS in Computer Science, GPA: 3.934

Swarthmore College *08/2012 - 05/2018*
BSc, Computer Science & Mathematics, GPA: 3.86

Korean Minjok Leadership Academy *09/2009 - 06/2012*

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 AWS, Santa Clara *05/2024 - 08/2024*
Applied Scientist Intern
Project: Cross-modal Retrieval for Open Question Answering over speech data

ASAPP, New York *06/2023 - 08/2023*
Research Intern
Project: Task-oriented dialog for real-time agent assistance

Amazon Alexa, Seattle *05/2022 - 08/2022*
Applied Scientist Intern
Project: Adaptive endpointing for automatic speech recognition for voice assistants

Samsung Research, 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, Spoken Language Understanding

Publications

1. Do June Min, Verónica Pérez-Rosas, Kenneth Resnicow, and Rada Mihalcea. Dynamic reward adjustment in multi-reward reinforcement learning for counselor reflection generation. In *Accepted for publication at LREC-COLING 2024*, 2024

2. Oana Ignat, Zhijing Jin, Artem Abzaliev, Laura Biester, Santiago Castro, Naihao Deng, Xinyi Gao, Aylin Ece Gunal, Jacky He, Ashkan Kazemi, Muhammad Khalifa, Namho Koh, Andrew Lee, Siyang Liu, Do June Min, Shinka Mori, Joan C. Nwatu, Veronica Perez-Rosas, Siqi Shen, Zekun Wang, Winston Wu, and Rada Mihalcea. Has it all been solved? open NLP research questions not solved by large language models. In Nicoletta Calzolari, Min-Yen Kan, Veronique Hoste, Alessandro Lenci, Sakriani Sakti, and Nianwen Xue, editors, *Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024)*, pages 8050–8094, Torino, Italia, May 2024. ELRA and ICCL

3. Do June Min, Paloma Sodhi, and Ramya Ramakrishnan. Workflow-guided response generation for task-oriented dialogue, 2023

4. Do June Min, Veronica Perez-Rosas, Ken Resnicow, and Rada Mihalcea. VERVE: Template-based ReflectiVE rewriting for MotiVational IntErviewing. In Houda Bouamor, Juan Pino, and Kalika Bali, editors, *Findings of the Association for Computational Linguistics: EMNLP*

2023, pages 10289–10302, Singapore, December 2023. Association for Computational Linguistics

5. Do June Min, Veronica Perez-Rosas, and Rada Mihalcea. Navigating data scarcity: Pretraining for medical utterance classification. In *Proceedings of the 5th Clinical Natural Language Processing Workshop*, pages 59–68, Toronto, Canada, July 2023. Association for Computational Linguistics

6. 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. In *ICASSP 2023 - 2023 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, pages 1–5, 2023

7. 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 2022 Conference on Empirical Methods in Natural Language Processing*, pages 148–158, Abu Dhabi, United Arab Emirates, December 2022. Association for Computational Linguistics

8. 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

9. 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 Finale Doshi-Velez, Jim Fackler, Ken Jung, David Kale, Rajesh Ranganath, Byron Wallace, and Jenna Wiens, editors, *Proceedings of the 5th Machine Learning for Healthcare Conference*, volume 126 of *Proceedings of Machine Learning Research*, pages 895–912. PMLR, 07–08 Aug 2020

Languages And Skills

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