

Andrew Lee

Contact Information	E-mail: ajyl@umich.edu Website: https://ajyl.github.io Google Scholar: Link	
Research Interests	Natural Language Processing, Interpretability, Language Models, Dialogue, Grounding, Computational Social Science	
Education	University of Michigan Ph.D. Candidate in Computer Science Advisor: Rada Mihalcea University of Michigan Master's in Computer Science Northwestern University Bachelor of Science in Computer Science	Ann Arbor, MI 2020 - Present Ann Arbor, MI 2015 Evanston, IL 2013
Publications	<p>N. Nanda*, A. Lee*, M. Wattenberg. 2023. Emergent Linear Representations in World Models of Self-Supervised Sequence Models. <i>Pre-print</i>.</p> <p>O. Ignat, Z. Jin, A. Abzaliev, L. Biester, S. Castro, N. Deng, X. Gao, A. Gunal, J. He, A. Kazemi, M. Khalifa, N. Koh, A. Lee, S. Liu, D.J. Min, S. Mori, J. Nwatu, V. Perez-Rosas, S. Shen, Z. Wang, W. Wu, R. Mihalcea. 2023. A PhD Student's Perspective on Research in NLP in the Era of Very Large Language Models. <i>Pre-print</i>.</p> <p>A. Lee, J. K. Kummerfeld, L. An, R. Mihalcea. 2023. Empathy Identification Systems are not Accurately Accounting for Context. <i>European Chapter of the Association for Computational Linguistics (EACL)</i>.</p> <p>A. Lee, D. Wu, E. Dinan, M. Lewis. 2022. Improving Chess Commentaries by Combining Language Models with Symbolic Reasoning Engines. <i>Pre-print</i></p> <p>A. Lee, Z. Chen, K. Leach, J. Kummerfeld. 2022. Augmenting Task-Oriented Dialogue Systems with Relation Extraction. In <i>Proceedings of the 10th Dialog System Technology Challenges (AAAI Workshop)</i>.</p> <p>A. Lee, J. K. Kummerfeld, L. An, R. Mihalcea. 2021. Micromodels for Efficient, Explainable, and Reusable Systems: A Case Study on Mental Health. <i>Findings of Empirical Methods in Natural Language Processing (Findings of EMNLP)</i>.</p> <p>S. Larson, A. Mahendran, J. J. Peper, C. Clarke, A. Lee, P. Hill, J. K. Kummerfeld, K. Leach, M. A. Laurenzano, L. Tang and J. Mars. 2019. An Evaluation Dataset for Intent Classification and Out-of-Scope Prediction. <i>Empirical Methods in Natural Language Processing (EMNLP)</i>.</p> <p>S. Larson, A. Mahendran, A. Lee, J. K. Kummerfeld, P. Hill, M. Laurenzano, J. Hauswald, L. Tang, J. Mars. 2019. Outlier Detection for Improved Data Quality and Diversity in Dialog Systems. <i>North American Chapter of the Association for Computational Linguistics (NAACL)</i>.</p>	

* Equal Contribution

Experience	Meta AI Research Research Intern - RAM (Reasoning, Attention, Memory) Team Advisors: Jing Xu, Jason Weston New York, NY May 2023 - August 2023
	Meta AI Research Research Intern - Diplomacy Team Advisors: Mike Lewis, Emily Dinan New York, NY May 2022 - August 2022
	Microsoft Research Research Intern - KTX Team Advisor: Silviu-Petru Cucerzan Redmond, WA May 2021 - August 2021
	Clinic, Inc. Core AI R&D - Senior Software Engineer, Team Lead Core AI R&D - Software Engineer Ann Arbor, MI June 2019 - August 2020 June 2017 - June 2019
	Ford Motor Company Software Engineer Dearborn, MI March 2016 - June 2017
Patents	<p>Systems and methods for constructing an artificially diverse corpus of training data samples for training a contextually-biased model for a machine learning-based dialogue system. A. Lee, S. Larson, C. Clarke, K. Leach, J. Kummerfeld, P. Hill, J. Hauswald, M. Laurenzano, L. Tang, J. Mars. <i>US Patent 10,796,104. 2020.</i></p> <p>Systems and methods for automatically configuring training data for training machine learning models of a machine learning-based dialogue system including seeding training samples or curating a corpus of training data based on instances of training data identified as anomalous. S. Larson, A. Mahendran, A. Lee, J. Kummerfeld, P. Hill, M. Laurenzano, J. Hauswald, L. Tang, J. Mars. <i>US Patent 10,679,150. 2020.</i></p>
Awards	Excellence in Climate, Diversity, Equity, and Inclusion 2023 - Award given to 5 students in the Computer Science and Engineering department for one's commitment and action in increasing diversity, equity, and inclusion in the division. University of Michigan CSE Research Honors AI Lab Nominee
Professional Services	ACL - Association for Computational Linguistics 2021, 2022 - ACL Rolling Review CLPsych - Workshop on Computational Linguistics and Clinical Psychology (@NAACL) 2022 - Organizing Committee 2021 - Volunteer CBO - International Symposium on Code Generation and Optimization 2019 - Program Committee
References	Available upon request.