

Andrew Lee

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| Contact Information | E-mail: ajyl@umich.edu Website: https://ajyl.github.io | |
| Research Interests | Natural Language Processing: Dialogue, Language Models, Grounding, Computational Social Science | |
| Education | University of Michigan | Ann Arbor, MI |
| | Ph.D. Candidate in Computer Science | 2020 - Present |
| | Advisor: Rada Mihalcea | |
| | University of Michigan | Ann Arbor, MI |
| | Master's in Computer Science | 2015 |
| Publications | Northwestern University | Evanston, IL |
| | Bachelor of Science in Computer Science | 2013 |
| | A. Lee, D. Wu, E. Dinan, M. Lewis. 2022. Improving Chess Commentaries by Combining Language Models with Symbolic Reasoning Engines. <i>Preprint</i> | |
| | 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> . | |
| | 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> . | |
| Experience | 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 for Intent Classification and Out-of-Scope Prediction. <i>Empirical Methods in Natural Language Processing (EMNLP)</i> . | |
| | 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> . | |
| | Meta AI Research | New York, NY |
| | Research Intern | May 2022 - August 2022 |
| | Advisors: Mike Lewis, Emily Dinan | |
| | Microsoft Research | Redmond, WA |
| | Research Intern | May 2021 - August 2021 |
| | Advisor: Silviu-Petru Cucerzan | |
| | Clinic, Inc. | Ann Arbor, MI |
| | Core AI R&D - Senior Software Engineer, Team Lead | June 2019 - August 2020 |
| | Core AI R&D - Software Engineer | June 2017 - June 2019 |

Ford Motor Company
Software Engineer

Dearborn, MI
March 2016 - June 2017

Patents

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.

US Patent 10,796,104. 2020.

Systems and methods for automatically congruing 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.

US Patent 10,679,150. 2020.

**Professional
Services**

ACL - Association for Computational Linguistics

2021, 2022 - ACL Rolling Review

CLPsych - Workshop on Computational Linguistics and Clinical Psychology

2022 - Organizing Committee

2021 - Volunteer (@ NAACL)

CBO - International Symposium on Code Generation and Optimization

2019 - Program Committee

References

Available upon request.