

Changye Li

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EDUCATION

- Ph.D. Institute of Health Informatics, University of Minnesota, 2024 (expected)
M.S. Department of Computer Science and Engineering, University of Minnesota, 2018
B.S. Department of Economics, University of Minnesota, 2016
B.A. School of Statistics, University of Minnesota, 2016

PUBLICATIONS

Journal Articles

- 2024 **Li, C.**, Solinsky, J., Cohen, T., Pakhomov, S., “A curious case of retrogenesis in language: Automated analysis of language patterns observed in dementia patients and young children.” In: *Neuroscience Informatics* 4.1 (2024), p. 100155. ISSN: 2772-5286. DOI: <https://doi.org/10.1016/j.neuri.2023.100155>
- 2024 **Li, C.**, Xu, W., Cohen, T., Pakhomov, S., “Useful blunders: Can automated speech recognition errors improve downstream dementia classification?” In: *Journal of Biomedical Informatics* 150 (2024), p. 104598. ISSN: 1532-0464. DOI: <https://doi.org/10.1016/j.jbi.2024.104598>
- 2022 Pradhan, P., **Li, C.**, Shen, Z., Remucal, M., “Comparison of adverse events between COVID-19 and Flu vaccines.” In: *Public Health Review* 5.1 (2022)
- 2021 Guo, Y., **Li, C.**, Roan, C., Pakhomov, S., Cohen, T., “Crossing the “Cookie Theft” corpus chasm: applying what BERT learns from outside data to the ADReSS challenge dementia detection task.” In: *Frontiers in Computer Science* 3 (2021), p. 642517

Conference Proceedings

- 2023 **Li, C.**, Xu, W., Cohen, T., Michalowski, M., Pakhomov, S., “TRESTLE: Toolkit for Reproducible Execution of Speech, Text and Language Experiments.” In: *American Medical Informatics Association Informatics Summit* (2023)
- 2022 **Li, C.**, Knopman, D., Xu, W., Cohen, T., Pakhomov, S., “GPT-D: Inducing Dementia-related Linguistic Anomalies by Deliberate Degradation of Artificial Neural Language Models.” In: *Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*. Dublin, Ireland: Association for Computational Linguistics, May 2022, pp. 1866–1877. DOI: 10.18653/v1/2022.acl-long.131

CONFERENCE ACTIVITY

Presentation

- 2024 **Li, C.**, Solinsky, J., Michalowski, M., Pakhomov, S., “David (LLaMA) takes on Goliath (GPT-4) in an NLP Task of Extracting Adverse Drug Reactions from DailyMed.” In: *American Medical Informatics Association Informatics Summit* (2024)
- 2023 **Li, C.**, Xu, W., Pakhomov, S., Cohen, T., “Investigating the Impact of Speech Recognition Errors on Subsequent Dementia Classification.” In: *American Medical Informatics Association Informatics Summit* (2023)
- 2023 Xu, W., **Li, C.**, Pakhomov, S., Cohen, T., “Task-agnostic Linguistic Detection of Alzheimer’s Disease Dementia with Time-series Augmented Representations for Detection of Incoherent Speech (TARDIS).” in: *American Medical Informatics Association Informatics Summit* (2023)

Peer-Reviewed Poster

- 2022 **Li, C.**, Cohen, T., Pakhomov, S., “The Far Side of Failure: Investigating the Impact of Speech Recognition Errors on Subsequent Dementia Classification.” In: *Machine Learning for Health* (2022)
- 2018 **Li, C.**, Levonian, Z., Ma, H., Yarosh, S., “Condition Unknown: Predicting Patients’ Health Conditions in an Online Health Community.” In: *Companion of the 2018 ACM Conference on Computer Supported Cooperative Work and Social Computing*. 2018, pp. 281–284

TEACHING

- 2022 Fall Teaching Assistant: Python Programming Essentials for the Health Sciences
- 2021 Fall Teaching Assistant: Foundations of Biomedical Natural Language Processing
- 2022 Fall Introduction to GitHub Workshop
- 2021, 2022 Python Programming Workshop

SERVICE

Academic Journal and Conference Peer Review

- 2024 Association for Computational Linguistics (ACL)
- 2024 International Joint Conference on Artificial Intelligence (IJCAI), AI for Social Good Special Track
- 2024 Computational Linguistics and Clinical Psychology (CLPsych) Workshop of the European Chapter of the Association for Computational Linguistics (EACL)
- 2023, 2024 American Medical Informatics Association (AMIA) Informatics Summit
- 2023 AMIA Annual Summit
- 2023 Machine Learning for Health (ML4H)

RESEARCH LABS AND ASSISTANTSHIP

2020-2024	Graduate Research Assistant, University of Minnesota
2019-2020	Graduate Research Assistant, University of Minnesota
2017-2018	Graduate Research Assistant, University of Minnesota

PROFESSIONAL EMPLOYMENT

2023	Research Intern, Truveta, Bellevue, WA
2017	Digital Data Analyst Intern, Padilla, Minneapolis, MN