CURRICULUM VITAE

Xi Zeng

Email: zeng0115@bu.edu
Google Scholar: Google scholar

Education

Master of Computer Science 2024 - 2025
Boston University, Boston, MA

Bachelor of Art, Computer Science 2021 - 2024
Rutgers University, Piscataway, NJ

Teaching experience

Teaching Assistant 2025 - Present

MET CS 767 Advanced ML and Neural Network, Boston University

- Evaluate and grade coursework, deliver academic support, and clarify advanced concepts for graduate students.

Research experience

Research Assistant, Professor Reza Rawassizadeh's group 2025 – Present

Boston University

- Presented weekly reviews of recent publications from leading ML/AI conferences and journals, stimulating group discussion and idea sharing.
- Rapidly implemented prototypes and experimented with novel concepts, reporting findings to guide research direction.
- Led the implementation and experimental design for promising projects (GradES: Significantly Faster Training in Transformers with Gradient-Based Early Stopping, submitted to MLsys).
- Managed code refactoring, optimization and public release on platforms.

Research Assistant 2024 - Present

The Center for Intelligent Medical Electronics, Fudan University

- Applied statistical methods to determine if experimental data significantly differed from proposed hypotheses in intelligent medical electronics research.
- Utilized Deep Forest algorithm's MDI interpretability to map importance scores and select the most crucial electrodes.
- Compared performance of Deep Forest (as baseline), models using all features, and models trained only on selected important electrodes.
- Demonstrated via statistical analysis that our interpretability approach achieves significant performance gains and enables accuracy with fewer electrodes at lower cost.

Grants and Awards

Dean's List, Kent State University

Technical Competencies

Computer Skills: Python, R, MATLAB, Java, Linux/UNIX, Jupyter Notebook, Overleaf, Git, scikit-learn, PyTorch, TensorFlow, Pandas, Matplotlib, SQL, HTML, CSS, Android Studio.

Data Analysis Skills: Statistical data analysis, hypothesis testing, data visualization, machine learning algorithm implementation, feature selection, reproducible research practices, database management.

Course Work

Applied Statistics and Machine Learning: Statistical Machine Learning, Web Mining, Data Mining, Intro to Artificial Intelligence, Advance Machine Learning, Generative AI

Mathematics: Linear Algebra, Linear Optimization, Discrete Math, Probability

Data Management: Information and Data Management, Advance Database Management

Publications

1. Q. Wen†, **X. Zeng†,** Z. Zhou, S. Liu, M. Hosseinzadeh, N. Su, and R. Rawassizadeh, "GradES: Significantly Faster Training in Transformers with Gradient-Based Early Stopping," arXiv preprint arXiv:2509.01842, 2025. (†: Co-first author, Submitted to MLsys 2026)
2. X. Tan, Y. Pan, **X. Zeng**, R. Yang, S.-P. Zhao, and W. Zhao, "Analysis of Dyslipidemia Management Based on the DYSIS-China Study," Manuscript in preparation, 2025.
3. X. Tan, **X. Zeng**, S. Fan, H. Zheng, X. Du, X. Ye, and C. Dai, "Robust and Interpretable Silent Speech Recognition from High-Density sEMG Using Deep Forest," Manuscript in preparation, 2025.

Academic and Professional Membership

- IEEE member

Language

- English (Advanced)
- Chinese (Native).
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