Zeyu Yang Updated on April 30, 2025

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RESEARCH INTERESTS

Large Scale Machine Learning; Generative Modeling

EDUCATION

Rice University August 2024 - Present

Ph.D. in Electrical and Computer Engineering, Advisor: Prof. Anshumali Shrivastava

August 2021 - May 2023 **Rice University**

M.S. in Data Science, Advisor: Prof. Joe Warren and Prof. Akane Sano

University of Electronic Science and Technology of China

August 2017 - May 2021

B.E. in Electronic Information Engineering

Skills & Certificates

Programming:

- Data Science: C++, CUDA, Python (PyTorch, Hugging Face, Matplotlib), MATLAB, Tableau
- Web Development: Python (Django, Dash), HTML, CSS, JavaScript (React), PostgreSQL
- IT Skills: Git, AWS, Docker, Linux, Markdown, LaTeX

RESEARCH EXPERIENCE

Rice Rush Lab December 2024 - Present

Graduate Research Assistant, with Prof. Anshumali Shrivastava

 Developed an adaptive quantization framework with learnable functions, which enables data-driven grid learning and parameter-efficient training for large-scale models without low-rank adaptation [4].

Rice Computational Wellbeing Group

January 2024 – July 2024

Graduate Student Researcher, with Prof. Akane Sano

- Developed a fair diffusion model to generate balanced mixed-type tabular data conditioned on multiple labels [1].
- Created a self-supervised multimodal learning method for stress detection using time series and tabular data [2].

Publications

Published Papers and Software:

- 1. Zeyu Yang, Han Yu, Peikun Guo, Khadija Zanna, Xiaoxue Yang, Akane Sano, "Balanced Mixed-Type Tabular Data Synthesis with Diffusion Models", Transactions on Machine Learning Research (TMLR), 2025.
- 2. Zeyu Yang, Han Yu, Akane Sano, "Contrastive Pretraining for Stress Detection with Multimodal Wearable Sensor Data and Surveys", Conference on Health, Inference, and Learning (CHIL), 2025.
- 3. PlotNet. (2022). [Online]. Available: https://github.com/zeyuyang8/plotnet

In Submission:

4. Zeyu Yang, Tianyi Zhang, Junda Su, Anshumali Shrivastava, "Adaptive Quantization with Learnable Functions", in submission to Neural Information Processing Systems (NeurIPS), 2025.

Awards & Honors