

Tiancheng Zhang

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Work Experience

06/2025 - Present Algorithm Engineer, Pengcheng National Laboratory

EDUCATION

09/2023 - 08/2024 Columbia University (USA), Master of Arts in Statistics
08/2019 - 05/2023 The Ohio State University (USA), Bachelor of Science in Honors Applied Mathematics

RESEARCH

- 01/2024 - 05/2024 **LEAP Lab at Columbia University, Research Assistant for Dr. Tian Zheng**
- Applied random forest and SVM models to improve accuracy in high-dimensional genomic data analysis.
 - Utilized CNNs for pattern detection in large-scale datasets, enhancing bioinformatics predictive modeling.
 - Developed ensemble learning algorithms for analyzing multi-modal data, integrating diverse sources for comprehensive insights.
 - Created data visualization tools using t-SNE for clearer interpretation of complex statistical results.
 - Contributed to research papers, aiding in the dissemination of findings in journals and conferences
- 08/2022 - 05/2023 **Electronic Materials and Nanostructures Laboratory at The Ohio State University, Research Assistant for Dr. Brillson Leonard**
- Identifying, manipulating, and controlling atomic-scale defects in electronic materials of films, nanowires, and quantum-dots
 - Comprehending the research objectives, procedures, and background knowledge of electronic materials and nanostructures
 - Executing experiments to test the properties of different electronic materials under various conditions
 - Analyzing data by utilizing advanced apparatus and related theories in Applied Physics
- 08/2022 - 12/2022 **GENETIS at The Ohio State University, Research Assistant for Dr. Amy Connelly**
- Optimized detectors in physics for science outcomes in high dimensional parameter space
 - Developed genetic algorithms for designing antennas that are more sensitive to ultra-high energy neutrino induced radio pulses than current designs

INTERNSHIP

- 05/2023 - 08/2023 **China Highrun Capital Limited, Summer Analyst at the Private Equity Investment Department**
- Build financial models & evaluating potential investment opportunities through industry research
 - Construct data analysis to review financial and business information
- 05/2021 - 08/2021 **Tencent Holding Limited, Summer Intern as Game Designer at Lightspeed & Quantum Studios**
- Used mathematical models to design and adjust parameters in games to optimize the user experience and maximize profit gain
 - Analyzed the demands of potential customers using mathematical and statistical methods
 - Participated in the development of the game: League of Legends - Esports Manager, which has been released recently and named among the 2022 Winners of Apple's App Store Awards
- 08/2020 **Guotai Junan Securities Co., Ltd, Summer Analyst at the Investment Banking Department**
- Constructed Mathematical Models for financial research according to specific demands
 - Obtained necessary financial background knowledge supplementing mathematical work in the field