YIDA WANG

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EDUCATION

Binzhou Medical University   Shandong, China

Bachelor of Medicine in Preventive Medicine   Sep 2022 - Jul 2027

- Core courses: Health Statistics (96), Epidemiology , Immunology, Pathology, Physiology, Database technology

PUBLICATIONS

- Wang, Y. (2023). The influence and mechanism of the nervous system and other factors inducing anxiety-like behavior in animal models. Lecture Notes in Education Psychology and Public Media, 30, 160–166.
- Wang, Y. (2024). Analyzing single-cell transcriptome sequencing data reveals immunological mechanisms of microglia-associated diseases. Paper presented at ICBioMed 2024. Published in Theoretical and Natural Science (Print ISSN: 2753-8818).

RESEARCH EXPERIENCE

The Epigenetics Laboratory, Max Planck Institute for Heart and Lung Research   Bad Nauheim, Germany

Research on microglia in Alzheimer's Disease

Research Assistant to Prof. Lei Gu   Aug 2024 - Aug 2025

- Bulk & single-cell RNA-seq: Reproducible pipelines (DESeq2/edgeR/limma; Seurat/Scanpy with Harmony, Monocle3, CellChat); enrichment and visualization for microglia-related AD studies.
- ML for AD: Trained RF/XGBoost/SVM/Logistic with CV/tuning and SHAP interpretation; delivered code, figures and writing for a manuscript (under review).

Columbia University, department of public health   New York, US

Exploratory data analysis using R on longitudinal lifespan datasets

Supervisor: Prof. R. Todd Ogden   Dec 2023 -May 2024

- Participated in a short-term research training project focusing on statistical modeling of lifespan data in animal models.
- Completed basic data visualization and exploratory modeling tasks in R.
- Gained basic experience in regression modeling and later transitioned into omics-related data analysis.

Binzhou Medical University   Shandong, China

Analysis of Differential Expression and Protein Interaction of TYK2 in Head and Neck Tumors

Supervisor: Prof.Yue Zhen   Jun 2023 - Present

- Used R language and machine learning algorithms to analyze the biomedical data.
- Explored the various algorithms of machine learning and applied them to public health and medical problems.

EXTRACURRICULAR EXPERIENCE

Volunteer, Robotex The World Robot Competition in Asia Station   Dec 2023 - Jan 2024

- Assisted the referees' work and the participants' preparation, and maintained the order of the scene.
- Obtained the Excellent Volunteer Certificate.

German Spokesman, Model United Nations   Oct 2022 - Nov 2022

- Collected and summarized the materials about global climate change topic, and finally generated a speech.
- Honored as the Best Spokesman.

ADDITIONAL INFORMATION

Computer Skills: Python, R, EXCEL

Language Skills: Chinese (Native); English (Fluent)

Interests: Swimming, travelling, badminton, reading, photography