**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