

YANG XIE

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EDUCATION

University of Minnesota

Minneapolis, MN

M.S. in Biostatistics, GPA: 4.0/4.0

Sept. 2022 - Present

Program Courses: Theory of Statistics I&II, Biostatistical Inference I&II, Survival Analysis, Clinical Trials, Explore/Visualizing Data in R, Intro to SAS Programming

Self-Learning Courses: Data Science I (Columbia P8105)

Nanjing Medical University

Nanjing, China

M.B.B.S. in Clinical Medicine, GPA: 3.73/4.0 (WES), Rank: 10%

Sept. 2017 - Jul. 2022

Member of Mathematical Modeling Association, Mar. 2020 – May. 2022

Quantitative Courses: Advanced Mathematics (Calculus), Linear Algebra, Probability Theory & Mathematical Statistics, Medical Statistics, Epidemiology, Modern Information Technology (Python)

SKILLS & CERTIFICATIONS

Programming (From Proficient to Understanding): SAS, R, SQL, Python, Git, Jupyter, Unix

Statistical: Probability&Statistical Theory, Biostatistics, Linear Regression, Survival Analysis, Clinical Trials

Certifications: SAS Certified Specialist: Base Programming Using SAS 9.4 (Score: 1000),
SAS Certified Professional: Advanced Programming Using SAS 9.4 (Score: 986)

EXPERIENCE

Jiangsu Province Hospital

Nanjing, China

Medical Intern

Jun. 2021 – May. 2022

- ◆ Rotated in hospital departments, including Pediatrics, Obstetrics and Gynecology, Internal medicine and Surgery;
- ◆ Practiced clinical operations such as ECG measurement, and wrote inpatient records for each department;
- ◆ Understood the operation mode of public hospitals and integrated medical knowledge with clinical practice.

University of Manchester

Manchester, UK

Student in Bioscience Summer School

Jul. 2019 - Aug. 2019

- ◆ Involved in laboratory work in four areas of Bioscience: Cell Biology, Microbiology, Biochemistry and Pharmacology;
- ◆ Measured and compared differences in chemical reaction rates at different concentrations, plotted data, and performed statistical tests using GraphPad;
- ◆ Developed presentation and cooperation skills in a group project in designing and presenting a scientific poster.

PROJECTS & PRACTICUMS

Data Visualization and Analysis with Diabetes Data

Minneapolis, MN

Final Project in Explore/Visualizing Data in R - Advisor: Lianne Siegel

Nov. 2022 – Dec. 2022

- ◆ Wrangled dataset into a tidy version with dplyr package and made a gt table to display descriptive statistics;
- ◆ Grouped dataset by medical indicators and visualized grouped data to show trends and differences with ggplot package;
- ◆ Arrange data analysis results and comments in an R Markdown slide file for classroom presentation;

Statistical Analysis in Mathematical Modeling

Nanjing, China

Participant of Tutorials and Projects - Advisor: Yiling Zhang

Apr. 2020 – May. 2020

- ◆ Learned the basics of Statistics in mathematical modeling: hypothesis testing, regression analysis, and survival analysis;
- ◆ Performed hypothesis testing on paired urine lead content data, regression analysis on data of Chinese civil aviation, and survival analysis on lung cancer prognosis data;

Enzyme Kinetic Studies of Yeast Alcohol Dehydrogenases (yADH)

Manchester, UK

Group Project in Biochemistry Lab - Advisor: Hui Lu

Jul. 2019 – Aug. 2019

- ◆ Performed enzyme activity assay for ADH using UV-vis spectroscopy to collect data of enzyme kinetics;
- ◆ Determined enzyme kinetic constants V_{\max} and K_m using the direct and linear forms of Michaelis-Menten equation;

HONORS & AWARDS

Annual College Second-Class Scholarship (Top 10%)

2017 - 2018, 2018 -2019

Annual College Third-Class Scholarship (Top 20%)

2019 - 2020, 2020 -2021