

## Zihang Yu

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### SUMMARY OF QUALIFICATIONS

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- Solid statistical and mathematical background with proficiency in programming such as Python, R and SAS
- Experience on designing, implementing and analysing clinical trials with a particular focus on adaptive designs
- Strong problem-solving and collaboration abilities; excellent written, verbal and visual communication skills

### EDUCATION

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**University of Washington**, Seattle, USA expected Mar 2025

*MS Biostatistics*

**University of Nottingham**, Nottingham, UK Jul 2023

*BSc Hons Statistics (First Class)*

### EXPERIENCE

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*Biostatistics Intern*, Jun-Aug 2024

**USC Alzheimer's Therapeutic Research Institute (ATRI)** - San Diego, California, US

- Contributed to the final analysis of a phase 2 multi-center, randomized, double-blind, placebo-controlled trial
- Derived 4 standardized analysis datasets (ADaM/SDTM) and coded scoring functions for key outcomes using R
- Created study flow, CONSORT diagram, and wrote safety analysis report
- Presented project to 100+ institute members

*Research assistant*, May-Aug 2022

**University of Sheffield, Sheffield Centre of Health and Related Research (SCHARR)** - Sheffield, UK

Supervisors: Qiang Zhang, Ph.D. and Dr Munya Dimairo, University of Sheffield, Sheffield, UK

- Assisted in biostatistics research *Sample Size Estimation for Clinical Trials with An Adaptive Design*
- Reviewed 37 clinical trial protocols with adaptive designs, and verified sample size

*Data Analyst*, Jun-Aug 2021

**COSCO Shipping Logistics Co. Ltd.** - Liaoning, China

- Co-designed a database system to help forecast ocean freight trends base on fossil fuel price
- Created algorithm for real-time data collection to maintain up to date ship information

*Data Research Intern*, Jul-Sep 2020

**Cinda Securities** - Liaoning, China

- Supported the team leader in conducting industrial research on targeted industries and companies.
- Collected data, performed data cleansing and categorization, and produced data visualization charts, enhancing data interpretation for reports.

### PROJECTS

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**Mathematical Group Projects** *Statistical Data Analysis and Modelling Stream*

Supervisors: Prof. David Sirl, Prof. Frank Ball and Prof. Theodore Kypraios, University of Nottingham, Nottingham, UK

- Used survival analysis to build colon cancer survival time models
- Found the best strategy for the dice game: Higher or Lower, within the context of a statistical framework
- Modelled the intervals between successive failures of a particular car component

**Disease prevalence mapping and spatial analysis using MICS survey in Sierra Leone**

Supervisor: Prof. Jon Wakefield and Dr. Katherine Wilson, University of Washington, Seattle, US

**Co-designed an R package which provides robust variances for generalized linear mixed models fit using 'glmer'**

Supervisor: Prof. James Hughes, University of Washington, Seattle, US

### EXTRACURRICULAR

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*Buddy System Student Mentor*, UoN -Nottingham, UK, Sep 2022-Jun 2023

*Induction Week Activity Leader*, UNNC -Ningbo, China, Sep 2020-Jun 2021

*Intern & Coach*, University Sports Center, UNNC -Ningbo, China, Sep 2020-Jan 2021

## SKILLS

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- MS Office Suites, Python, R/Rmarkdown, SAS, MATLAB, HTML
- Scientific writing with LaTeX
- Analytics Skills: Statistical modelling, Numerical analysis, Time series analysis, Survival analysis, Spatial analysis
- Languages: English, Mandarin Chinese (native speaker)
- ADaM, SDTM