**Zihang Yu**

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# SUMMARY OF QUALIFICATIONS

* 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

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

*MS Biostatistics*

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

*BSc Hons Statistics (First Class)*

# EXPERIENCE

*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-Sep2020

**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

**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

*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

* 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