Yingxuan Wu

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SUMMARY OF QUALIFICATIONS

Proficient in analyzing diverse data types, including categorical, longitudinal, multilevel, and survival data, using tools R and SAS. Proven ability to design and utilize machine learning techniques for data analysis. Experienced in collaborating with interdisciplinary teams to address real-world health challenges.

WORK EXPERIENCE

Department of Biostatistics at UW **Seattle, WA**
Research Assistant, Stepped Wedge Datasets Project *May 2024 – December 2025*

- Reviewed the original publications and standardized each dataset in preparation for analysis
- Presented summary of dataset progress and challenges to the team of 6 at weekly meetings

SAS Educational Opportunity Fund at RU **New Brunswick, NJ**
Math Coach *July 2022 - August 2022*

- Led recitation sections, held office hours, and reviewed homework assignments for 37 students

PROJECTS

A Retrospective Cohort Study of Combined Pharmacist and Primary Care Interventions for Type 2 Diabetes Management **Seattle, WA**
Collaborative project *March 2025*

- Collaborated with my cohort and Valley View Health Center to evaluate the effectiveness of pharmacist-led interventions versus primary care-only interventions in managing Type 2 Diabetes
- Designed and executed a statistical analysis plan, including data cleaning, preprocessing, and analysis of raw clinical data
- Conducted longitudinal analysis using Generalized Estimating Equations (GEE) models and survival analysis with Cox proportional hazards models

Adolescent Idiopathic Scoliosis Analysis **Seattle, WA**
Collaborative project *December 2024*

- Applied linear regression and visualized results using R
- Implemented permutation tests to validate the statistical significance of the relationship between trunk inclination value and Cobb angle
- Utilized Lasso and Ridge regression to predict Cobb angles and classify scoliosis severity.

Small- versus Large-Stitch Closure Technique in Emergency Laparotomy **Seattle, WA**
Proposal *May 2024*

- Collaborated with a multidisciplinary team to design the study
- Proposed a multicenter RCT to evaluate the effectiveness of small-stitch versus large-stitch closure techniques in preventing ventral incisional hernia in emergency laparotomies
- Calculated sample size and developed statistical analysis on outcomes

SKILLS

Computer Skills: R, MATLAB, Java, Microsoft Office Suite (Word, PowerPoint, and Excel)
Language Skills: Chinese (native), English (fluent), German (elementary)

EDUCATION

University of Washington (UW), School of Public Health **Seattle, WA**
Master of Science in Biostatistics *September 2023 - March 2025*

Rutgers University (RU), School of Arts and Sciences **New Brunswick, NJ**
Bachelor of Arts in Mathematics and Cognitive Science (Cum Laude) *August 2019 - May 2023*