Yue(Ivy) Zhang

Biostatistics Graduate

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EXECUTIVE SUMMARY

- Recent M.S Biostatistics Master student specializes in data science, with prior internship experience as a research assistant in a finance data company
- Strong skills in statistical analysis, mathematics calculation, and data analysis.
- Deep expertise in R programming, proficient in JAVA, comfort in SQL, currently studying Python & SAS.
- Collaborative team players with critical thinking and problem-solving ability.
- Experience with multiple clinical trials studies using regression and lectures about machine learning (classification, cross-validation, permutation testing, bootstrap, etc.).

EDUCATION

Master of Science

•Biostatistics • University of Washington• United States • Candidate 2022

• Pathway in Data Science

• Core course: Design of Medical Study, Biostatistics, Data Analytics and Reporting, Categorical Data Analysis, Biomedical Data Science

Bachelor of Science

• Statistics • University of Washington• United States • 2019

• Dean's List in all quarters for outstanding academic performance

• GPA: 3.7/4.0

Bachelor of Arts

• Japanese, Asian Languages and Culture • University of Washington• United States • 2019

• Exchange student to Waseda University for six weeks

Research Experience

Research Assistant Internship **Oct 2021 — Current**

Fred Hutch, Seattle, United States

Mentor: Dr.Debroah J Donnell

- Worked in clinical trials researching correlates of interest in PrEP among men who have sex with men and transgender women in a multi-center HIV prevention study in sub-Saharan Africa (2015 -2017).
- Used statistical programming to generate analysis, graphs, and tables to assist in the preparation of grant applications.
- Collaborated with principal investigators and research team to ensure that project results and conclusions are presented accurately.

Graduate Independent Study **Jul 2021 — Current**

University of Washington, Department of Biostatistics

Mentor: Prof. Susanne May

- Analyzed dataset of an observational study assessing clinical outcomes of 3,000 children setting in Malawi, Africa, focusing on variables that may be associated with vaccine complement of children.
- Conducted data analysis using multinomial logistic regression, relative risk regression, and risk difference models;
- Gained adequate experience working with real-world data analysis using R. Currently generating the formal report.

PROFESSIONAL EXPERIENCE

Student Research Assistant **Oct 2020 — Feb 2021**

Coronanet Reserach Project

The CoronaNet Research Project compiles a database on government responses to the coronavirus. The main focus of the project is to collect as much information as possible about the various fine-grained actions governments are taking to address the effects of the COVID-19 pandemic.

- Identified information on Japan Government policies made in response to COVID-19 from various sources and documented them following the procedures and classification scheme outlined in the protocol.
- Maintained a close eye for quality data and kept the main interest of the project in mind while auditing and building the government policy datasets.
- Mentored and assisted team members in understanding Japanese government responses to COVID-19 and offered suggestions to research methodologies and processes.

Research Assistant Internship **Jan 2019 — Aug 2019**

Pitchbook, Seattle, United States

Pitchbook is a developer of SaaS Software that delivers data covering the private capital markets, including venture capital, private equity, and M&A transactions. The firm also provides business data analysis, research, and technology.

- Supported team to build a Chinese private capital market database, including researching and summarizing financial data of China Start-up business.
- Monitored the venture capital and private equity landscapes in the Great China region and brought changes and refinements to research methodologies and processes.
- Worked with large, often unstructured datasets to analyze team production and the level of coverage for the Chinese VC dataset
- Assisted the investor and sourcing operations research teams to ensure a robust pipeline of quality work for the team.

ADDITIONAL EXPERIENCE

Student Staff **Aug 2016 — Jan 2017**

Pagliacci Pizza, Seattle, United States

- Communicated with customers and provided high-quality customer service in a fast-paced environment.
- Associated with the team to maintain daily operation.

Internship Project **Aug 2015**

Citibank, Shenzhen, China

- Coordinated with bankers to satisfy customers' requests; oversaw the standard operating procedure.
- Prepared and briefed reports to manager; required long-range and accurate communication.

Internship Project **Aug 2014 — Sep 2014**

Tencent, Shenzhen, China

- Researched and analyzed customer experience for a specific game.
- Coordinated with team members to improve the game experience based on customer feedback.

RELEVANCE PROJECT

"COVID-19 Effect in World Happiness Level" **June 2021**

(Final paper for Data Analysis and Reporting, Spring 2021)

- Studied world happiness report data ranged from 2005 to 2020.
- Focused on what factors of a country are associated with the national average happiness score, and how COVID-19 affects national average happiness scores.
- Conducted generalized estimating equations model and paired t-test; used AIC as a model selection method.

"Distinguished Factors in Evaluating Speed Dating Preferences" **March 2019**

(Final paper for Applied Regression and Analysis of Variance, Winter 2019)

- Studied speed dating preference using speed dating data.
- Focused on what characteristics of a partner will impact a subject's ratings of the said partner in a speed date, and what characteristics of an individual may lead to them changing their standards for partner selection.
- Conducted linear regression model with fixed effects and logistic regression model, used AIC as a supplement method to conduct model

"Wine Exploration of Red Wine and White Wine" **March 2018**

(Final paper for Resampling Inferences course, Winter 2018)

- Presented and analyzed wine data, compared the effect of different factors (such as alcohol, etc.) on red wine quality.
- Examined differences between red wine and white wine.
- Conducted Bootstrap on over a thousand responses; used AIC and BIC conduct models; used T-test and KNN as the analysis method.