

# Jinao Zhu

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## EDUCATION

**Georgetown University**, Washington, DC  
**Master of Science in Data Science and Analytics (DSAN): 3.8 GPA**

**Aug 2021 – May 2023**

**Juniata College**, Huntingdon, PA  
**Bachelor of Science in Data Science: 3.63 GPA**

**Aug 2017 – Dec 2020**

- Graduated Cum Laude, Dean's List Recipient for multiple semesters

## SKILLS

**Tools and languages:** Python, R, MySQL, Java, HTML, Spark, Hadoop, AWS, Azure

**Data Visualization:** Tableau, Power BI, ggplot, plotly

**Machine Learning:** Natural Language Processing, Decision Trees, Support Vector Machine, Random Forest, Association Rule Mining, Clustering

**Languages:** English (Proficient), Chinese (Native)

## PROFESSIONAL EXPERIENCE

**Teaching Assistant** | *Georgetown University* | *Washington, DC*

**Aug 2022 – May 2023**

- Worked with students individually to reinforce topics including supervised learning, ensemble methods, and probabilistic modeling
- Held weekly office hours to teach students how to solve statistical problems in Python and R, and provided advice on course assignments
- Graded 40+ assignments per course module to aid the professor and ensure that students were able to rapidly assess their own work

**Data Analyst Intern** | *Hyster-Yale Maximal* | *Hangzhou, China*

**Mar – July 2021**

- Designed and implemented a series of tailored visualizations to enable senior leadership to track lead time and inventory data with additional accuracy
- Leveraged untapped company data holdings to create a stand-alone tool to track real-time company financial data, increasing Hyster-Yale's ability to identify emerging trends
- Presented key findings obtained from these visualizations to company leadership, which directly increased the efficiency and effectiveness of their purchasing strategy

**Business Analyst Intern** | *WD Strategies* | *Huntingdon, PA*

**June – Sep 2020**

- Updated WD Strategies' website with current events and client-facing information to ensure brand awareness
- Researched and connected with relevant industry leaders for startup companies, to expand their client base and identify potential partners
- Analyzed the capabilities of competing consulting firms, to maintain broad company awareness and to guide WD Strategies' evolution

## ACADEMIC PROJECTS

**Analysis of Diabetes Patients** | <https://cyan.georgetown.domains/501/index.html> | *Washington, DC*

**Aug – Dec 2021**

- Performed data processing on structured and unstructured data to bring new insight to the emergence of complications in Diabetes patients
- Leveraged supervised and unsupervised learning techniques like Clustering, Decision Tree, SVM, ARM, and Naïve Bayes to determine the relative importance of Diabetes risk factors
- Delivered a final report that meshed technical findings and non-technical conclusions to summarize key research findings gleaned from this study to a broad audience

**Factors in College Admission** | *Washington, DC*

**Aug – Dec 2021**

- Performed data cleaning on Graduate Admissions data for US-based college admissions, to better understand which factors contribute to international student success
- Applied statistical methods including hypothesis testing, linear regression, and chi-square tests to determine the factors most influential in determining college acceptance
- Summarized and interpreted results to provide international students with new information on the relative importance of different application characteristics when applying to US-based schools

**Analysis of Mountain Day Emergency Fund** | *Huntingdon, PA*

**Aug – Dec 2020**

- Worked closely with college leadership to provide a data-driven perspective on the characteristics of donors who contribute to the Mountain Day Fund, created in response to COVID-19
- Applied regression analysis, ANOVA, and T-tests to extract key insight from the data and identify trends
- Delivered a final report to the college, which provided new information about donors, enabling them to tailor their marketing strategy to procure additional donations for COVID-19 relief