

Jing Wu

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EDUCATION

BOSTON UNIVERSITY

Boston, MA

Master of Science, Statistical Practice

Sep 2022 – Jan 2024

Coursework: Applied Statistical Modeling (TA), Statistics Practicum, Data Science in R, Machine Learning

UNIVERSITY OF MANCHESTER

Manchester, UK

Bachelor of Science with First-Class Honors, Mathematics and Statistics

Sep 2019 - Jun 2021

DALIAN UNIVERSITY OF TECHNOLOGY

Dalian, China

Bachelor of Science, Mathematics and Applied Mathematics

Sep 2017 - Jun 2021

SKILLS & LANGUAGES

Technical: Expert in Python, R, SQL, Power BI, Tableau, Excel, Advanced in MATLAB, C#, C++

Analytical: Expert in Data Modeling, Data Processing, Data Mining (Clustering / Cluster Analysis, Factor Analysis, Regression Models, Logistic Regression, Predictive Modeling, optimization models), Data Visualization; Advanced in Artificial Intelligence

Languages: English - Confident, articulate, and professional speaking abilities; Native in Chinese; Proficient in Japanese.

PROFESSIONAL EXPERIENCE

KINTON Technology Co., Ltd

Nanchang, China

Data Analyst | Python

Jun - Aug 2020; Jan - Jul 2022

- Leveraged **Python** (Numpy, Pandas, Xarray) to process hourly air quality data, identifying seasonal trends and geographical distribution that empowered the external team to identify pollution types and sources, and provide actionable insights to clients for mitigating and solving issues.
- Designed and implemented real-time data extraction scripts with **Python** to continuously monitor air quality, automating the process and **reducing manual data entry errors by 15%** while **improving efficiency by 60% substantially**.
- Led the development team in employing **Kanban** methodologies to streamline the entire development process, ensuring seamless collaboration with cross-functional teams, including UI design, development, and data analytics. We designed and implemented an interactive dashboard, developing **Python scripts** with **Matplotlib** to enhance database access and visualize data, resulting in an 80% improvement in data monitoring efficiency.

Meorient International Exhibition Co., Ltd

Hangzhou, China

Data Analyst | SQL, Power BI

Jul - Dec 2021

- Utilized **SQL** to extract trading data related to specific commodities or vendors, supporting the business team with quantitative analysis to organize international exhibitions and enhance e-commerce sales.
- Leveraged **ETL** techniques to update and maintain databases (trade, buyer, and seller information) daily, ensuring real-time accuracy and database reliability to provide robust support for company operations.
- Developed dashboards with **Power BI Tools** for various ad-hoc requests from external departments, delivering visualized reports to provide critical insights and support business decision-making.

PROJECT EXPERIENCE

Agro-photovoltaics Impact on Agricultural Land Analysis

Boston, MA

InnovateCO Data Challenge | R

Jan - May 2023

- Sourced and integrated geospatial data from multiple **APIs**, extracting critical attributes from TIFF files to synthesize cleansed datasets, which underpinned a robust analysis of the environmental impact of agro-photovoltaics.
- Executed and refined **Random Forest models** with customized hyperparameters across multiple datasets, reaching a peak prediction accuracy of 98.25% and conducting a variable importance analysis to identify key soil attributes, enhancing the precision of solar panel installation detection and informing agricultural management strategies.

Boston Planning & Development Agency

Boston, MA

Data Science Consultant | Python

Sep - Dec 2022

- Established a reliable batch data retrieval system in **Python** using PUMS (API of Public Use Microdata Series), providing source data for comparative analysis between Brazil and other countries, offering diverse perspectives for in-depth population analysis.
- Designed **Python** scripts for the **Exploratory Data Analysis** section of the comparison data team, transforming comprehensive insights into critical immigration indicators. These analyses facilitated understanding demographic metrics within countries of similar and distinct cultural contexts.