

# Yao Zhong

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## Professional Summary

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- Rigorous Foundation in Statistics: Econometrics, Statistic Modelling, Experimental Design.
- MS Office Suite: Word, Excel, PowerPoint, Access.
- Deep Database Knowledge: MySQL, MariaDB, MongoDB, Data Modeling.
- Python: Data Wrangling, Visualization, Machine Learning, APIs.
- R: Time Series Analysis, Hypothesis Testing, Machine Learning.
- Visualizations: Python-Plotly, Plotly Dash, Tableau, Power BI, R-ggplot2.

## Education

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**Master of Science (M.S.): Data Science and Analytics**, University of Calgary, Calgary, Alberta, Canada Sept. 2023 – Aug. 2024

**Master of Science (M.S.): Applied Economics** - Boston College, Chestnut Hill, Massachusetts, USA Sept. 2018 - Dec. 2019  
Predictive Analysis, Big Data Econometrics, Empirical Behavioral Economics

**Bachelor of Arts (B.A.): Economics** - University of California – Davis Sept. 2016 - Jun. 2018  
Davis, California, USA  
Dean's Honor List - Spring 2018

## Experience

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**Data Analyst**, Sybal.io, North Bethesda, Maryland, USA May. 2021 – Feb. 2023

- Created, tested, and fine-tuned advanced models for policy recommendations and anomaly detection in transactional data, leading to a 19% boost in policy efficiency.
- Developed data pipelines, effectively scaling raw data into model-ready datasets, improving data accessibility and analytical processes.
- Designed and implemented customized, interactive data visualizations for monitoring procedural violations, policy effectiveness, and weekly compliance scores, delivering actionable insights to customers.
- Worked closely with product managers to customize static security policy parameters for various user personas and scenarios.

**Data Analyst Intern**, D.Y.K.B, Remote, California, USA Dec. 2020 – May. 2021

- Developed interactive and animated data visualizations to unearth valuable insights into users' behavioral trends, empowering data-driven decision-making.
- Spearheaded the automation of weekly social media engagement reports, streamlining the process and boosting operational efficiency by 50%.
- Conducted continuous monitoring of user demographic distribution, online session duration, and posting behavior by leveraging data visualization techniques.

## Project

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**AESO Power Generation – Academic Project** Oct. 2023 – Dec. 2023

Analysis of Alberta power transformation trend, price spikes, weather influence, and power import/export.

- Designed relational database to connect various datasets for fast and smooth queries.
- Animated map for the influence of weather on Alberta power generation.
- Created visualization for Alberta power transition, renewable energy generation pattern and price spikes.
- Trained and fitted machine learning model to predict future energy price.

### **Canadian Weekly Earnings – Academic Project**

Sept.2023 – Oct.2023

Industry and province-wide trend and economic shocks impact analysis of Canadian weekly earnings from 2001-2023.

- Designed and utilized pipeline to prepare data for visualization automatically.
- Implemented interactive and animated visualization to demonstrate industrial and provincial salary trends over time.
- Cross-referenced economic shocks and influential events with fluctuation in earnings.

### **Video Game Sales – Personal Project**

Jun. 2022 – Jul.2022

Detailed analysis on video game market from 1980 - 2016. Data cleansing and missing value imputing; Animated and interactive visualization.

- Implemented machine learning techniques in filling missing values.
- Created interactive drop-down menus to filter for categorical variables.
- Animated bar charts through the years to provide detailed time-series analysis.

## **Additional Experience**

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### **Talent Acquisition Intern**, Agora.io, Shanghai, China

Jul. 2019 – Oct. 2019

- Sourced overseas candidates for tech positions and conducted telephone/online initial screening.
- Designed, created visualizations and dashboards for talent demographic and skill-matching reports.
- Translated and polished all current job descriptions for posting on English job sites, increased click rates by 90% and resume received by 35%.

### **Part-time Assistant**, Boston Consulting Group, Shanghai, China

Jul. 2017 – Sept. 2017

- Collected product pricing and customer demographic data of industry competitions.
- Designed surveys for cluster sampling customer service quality.
- Conducted interviews with industry experts to improve data robustness.