

Yawen Zhang

545 N McClurg CT, Chicago, IL 60611 | (223)-666-1994 | yawen2021win@gmail.com | [Linkedin](#)

EDUCATION

University of Chicago | Chicago, IL

Expected Jan. 2024

M.S in Applied Data Science

GPA: 3.85/4.0

Elizabethtown College | Elizabethtown, PA

Jan. 2017–Dec. 2020

B.S in Mathematics

GPA: 3.7/4.0

Computer Skills: R (dplyr), Python (Pandas NumPy), MySQL, Spark, Git, Alteryx, Hadoop, Tableau, MongoDB

EMPLOYMENT

Data Science, Actuarial Intern | **Uber** | San Francisco, CA

Jun. 2023 – Sep. 2023

- Implemented Natural Language Processing model and dynamic clustering on 2M claims data, optimizing data pipeline via multiprocessing, and contributing to lowering insurance costs through data-driven strategies.
- Projected monthly incident counts, providing the claims team with strategic planning and resource allocation.
- Conducted data cleaning for Uber's international business, resolving data issues and enhancing data quality.

Data Analyst, Insurance Product Development | **TruStage** | Madison, WI

Jan. 2021 – Sep. 2022

- Built dashboards and small tools to track performance, automated data reconciliation and analysis with R.
- Assisted in the quarterly forecasting analysis of losses and expenses and reported the selected loss trends.
- Collected 1M+ data using SQL, assisted in designing experiments and ran simulations to estimate losses.
- Mentored summer interns, lead two intern projects, and gave presentations about product pricing techniques.

Business Intelligence Intern | **AXA XL** | New York City, NY

Jun. 2020 – Aug. 2020

- Assisted in deploying ML models (XGBoost) to predict the loss ratio, and improved the accuracy by 8%.
- Participated in building underwriting platform and tools, and improved policy quoting efficiency by 50%.
- Researched and presented the Predictive Analytics Models and Algorithms in insurance using R markdown.

Analyst Intern | **Mercer** | Philadelphia, PA

Jun. 2019 – Aug. 2019

- Conducted data gathering, data cleaning, and exploratory for an asset valuation of clients' retirement plans.
- Designed Retirement Plan Changes and Assisted investment managers with risk management in portfolios.

PROJECTS

Data Science Intern (Capstone Project) | **IRI** | **Chicago, IL**

Mar. 2023 – Present

- Deployed hierarchical time series clustering model on data (stores, categories, brands), and optimize client's businesses and achieve growth.

Research Assistant, **Game Theory - Equilibrium Problem in Multiple-Strategy Game** | Elizabethtown College

- Proved that Nash equilibrium makes conservative players, who accept ties in two strategy games, more likely to win, and used Mathematica to simplify the probability matrix based on Markov chain
- Presented the work at Joint Mathematics Meeting, the largest mathematics conference in the United States

PUBLICATION & AWARDS

- **Yawen Zhang**, A purely 3-D geometrical solution to Mathematics Magazine Problem 2065 [\[arXiv\]](#)
- Talked about my research "Go Big or Go Home" at the MAA EPaDel Conference (11/7/2020) [\[link\]](#)

ADDITIONAL INFORMATION

Related Courses: Big Data Platform, Machine Learning & Predictive Analytics, Data Mining Principles, Advanced Linear Algebra for ML (Python), Linear and Non-Linear Models, Statistical Analysis, Data Engineering Platforms, Mathematical Statistics, Theory of Probability, Data Science for Consulting, Data bases (SQL), Operations Research, Computer Science I, Python for Analytics, R workshop, Reinforcement Learning, Time Series Analysis and Forecasting