

# GRACE ZHEN WANG

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Data scientist with **9+ years of global experience in AI, machine learning, data visualization, and supply chain optimization**, turning complex datasets into actionable insights. Experienced at the **ILO** and multinational firms including **Nissan** and **Fortune Brands**, driving data-informed strategies **bridging technology and policy**.

## EDUCATION

### The University of Chicago

08/2023-06/2026

*Master of Science in Computational Analysis and Public Policy (MSCAPP)*

Chicago, Illinois

## SKILLS

- R, Python, SQL, JS, MATLAB, Git, GCP, Databricks; Machine Learning, NLP, Reinforcement Learning, Bayesian
- BigQuery, OBIEE, Tableau, Power BI, Streamlit, Flourish, Qlik, Looker Studio, Power Query, Power Pivot, VBA

## WORK EXPERIENCE

### International Labour Organization (ILO)

05/2025-current

*Data Scientist Intern*

Geneva, Switzerland

- Develop interactive dashboards using Dash, Streamlit and Google Looker Studio to visualize global youth employment survey data (YEAP), enabling cross-country policy insights and stakeholder engagement.
- Design scalable data pipeline for the Youth Employment Barometer 2025, capturing trends across 100+ countries, addressing sampling bias and regional disparities through automated data cleaning and analysis scripts. Developed custom visual templates (e.g., Sankey, butterfly charts) to support dynamic reporting and global policy advocacy.

### CHIRP Radio (Part-time)

09/2024-05/2025

*Full Stack Team Leader & Project Manager*

Chicago, IL

- Led a team of 15 members to design a SaaS-based music library system. Structured project plans, milestones, resource allocation, created roadmaps, timelines, and define assignments/deliverables from scratch.
- Developed automated workflows and deployed website for DJs and users by leveraging Python, JS, Flask, SQL, and Mutagen, to improve metadata accuracy, user accessibility, system performance and processing time (40%+).
- Implemented cloud integration solutions to drive collaborative technical solutions across applications.

### Delta Health Alliance

07/2024-09/2024

*Health & Education Data Scientist*

Memphis, TN

- Delivered the research, data analysis and visualization for education and health programs, producing reports.
- Analyzed teenage pregnancy, STDs awareness, and infant mortality trends in the U.S. Delta region, assessing intervention impact and demographic disparities.

### AccessBridge International

06/2024-08/2024

*International Trade, Economic Data Scientist*

Washington, D.C.

- Led supplier consultations and stakeholders' collaboration to integrate multi-source datasets for investment site selection in Mexico's semiconductor and NEV sectors, addressing key criteria including economy, education, real estate, cost, and policy.
- Developed full-stack dashboard using Python (Plotly Dash), JavaScript, and geospatial tools; integrated APIs, Matplotlib, and Seaborn for real-time visualization and insights, optimizing predictive capabilities, preparing data infrastructure for machine learning models.

### Moen Incorporated / Fortune Brands

05/2021-06/2022

*Global Category Sourcing Manager*

Guangzhou, China

- Led 34 new category projects, from market analysis, Brand Design & Innovation Conference planning, budgeting to implementation. Optimized supply chain of 5 entry level faucets, saving more than \$1.12 million.
- Created analytical reports with Qlik for purchasing management, raw material studies, and project analysis.
- Won the High Five Award (The top 5 best practice teams with significant projects and achievements)

### JATCO Automatic Transmission Ltd / Nissan

06/2017-05/2021

*Assistant Manager in Supply Chain Management*

Guangzhou, China

- Conducted global EV supply chain and OEM research, supporting EV transformation and market expansion. Led deep localization of 260+ target parts, yearly saving 12.3% (approx.\$95.45million).
- Designed data-driven systems for purchase performance review and personnel evaluation, enabling 3-year cost reduction forecasting, multidimensional decision analytics, and a skill-based incentive framework.
- Received the President Award (for top departmental professional excellence)

**Nidec (Guangzhou) Auto Drive System Co., Ltd**

**04/2013-05/2017**

*Senior Purchasing Specialist*

*Guangzhou, China*

- Designed analysis models and led VAVE to manage cross-departmental cost goals, saved an annual of \$6 million.
- Developed mold management models to oversee service life and investment planning.

## **PROJECT EXPERIENCE**

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**Movie Review Comparison — Bayesian Models, LDA, Data Visualization**

**01/2024-03/2024**

- Scraped data, utilized NLP and machine learning to conduct comparative analyses of films from different countries. Focused on sentiment analysis with Bayesian models and LDA topics mining, deployed a dashboard App.

## **PUBLICATION**

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**Zhen Wang, Analysis of the Future Possibility of Metaverse - A Case Study of Tencent**

**FIBA 2023**

- Accepted by the 2023 2nd International Conference on Finance, Investment and Business Analysis (FIBA 2023)

## **RESEARCH**

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**Time Series Modeling With Applications in Economics and Public Health (R Programming)**

**09/2022-12/2022**

- Supervisor: Dr. Peter Kempthorne, MIT (Massachusetts Institute of Technology)
- Team lead, led a time series forecasting project on the Metaverse's prospects (autocorrelation, residual, ARIMA model)