

GRACE ZHEN WANG

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Homepage

LinkedIn

GitHub

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
<i>Senior Purchasing Specialist</i>	<i>Guangzhou, China</i>
<ul style="list-style-type: none">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

Movie Review Comparison — Bayesian Models, LDA, Data Visualization	01/2024-03/2024
<ul style="list-style-type: none">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

Zhen Wang, Analysis of the Future Possibility of Metaverse - A Case Study of Tencent	FIBA 2023
<ul style="list-style-type: none">Accepted by the 2023 2nd International Conference on Finance, Investment and Business Analysis (FIBA 2023)	

RESEARCH

Time Series Modeling With Applications in Economics and Public Health (R Programming)	09/2022-12/2022
<ul style="list-style-type: none">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)	