

Yunmei Zheng

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EDUCATION

COOP | Data Analytics Apprenticeship

Aug 2023 — Present

- Engaging in a 16-week data analysis apprenticeship, mastering SQL, Python, and Tableau for data processing, visualization, storytelling, and maintaining a dedication to continuous professional growth

University at Buffalo | Bachelor of Science, Engineering Science

May 2023

- Courses: Applied Probability and Statistics, Intro To Data Science, Statistics for Engineers, Engineering Computations, Analytics and Computing, Machine Learning and Society

WORK EXPERIENCE

Analyst Intern

Nov 2022 — May 2023

Concord Consortium

Remote

- Developed an educational experiment using HTML and CSS, conducted A/B testing on various features, and adjusted design and content to introduce students to quantum computing concepts
- Applied data-driven insights to fine-tune the experiment, gauged impact through comprehensive surveys, and successfully achieved a notable 30% increase in student interest
- Utilized user feedback to identify key areas for improvement and implemented code enhancements to develop user-friendly visualizations and simulations
- Effectively communicated data findings and insights on student engagement, satisfaction, and learning outcomes to non-technical stakeholders, enabling informed decision-making and continuous improvements

Electrical Engineer Intern

June — Aug 2022

Syska Hennessy Group

Manhattan, NY

- Analyzed airport design data using Excel, employing over 30 formulas and creating 10+ charts to assess power consumption during peak and off-peak hours to ensure infrastructure adequacy and identify energy patterns
- Collaborated closely with interdisciplinary engineering teams and clients on 5+ projects, ensuring seamless coordination and achieving a 100% on-time project delivery rate
- Engaged in continuous learning, staying updated on industry standards, and emerging technologies by participating in team brainstorming sessions to explore innovative solutions to complex engineering challenges

TECHNICAL SKILLS & CERTIFICATION

Languages: R | MATLAB | Python | SQL | Tableau

Certification: Google Data Analytics | Oracle Cloud Data Management

PROJECTS

Flow Layout | Excel, Python | yun-mei.github.io/assets/pdf/flow.pdf

March — May 2023

- Employed optimization algorithms to creatively problem-solve and optimize department configurations, resulting in a 3% reduction in total production costs and a 5% improvement in workflow efficiency
- Utilized the Direct Clustering Algorithm and CRAFT to strategically optimize the layout of 11 different departments, reducing transit times by 8% and improving resource allocation and operational effectiveness
- Created a Mixed Integer Linear Programming model to minimize total transportation costs and enhance workflow efficiency, enabling 15% more cost-efficient logistics and smoother operational processes

Air Quality in NYC | R, RShiny | github.com/yun-mei/NYC-Air_demo

Aug — Dec 2022

- Developed 15 interactive charts and graphs using ggplot2 to enrich data visualization with RShiny, resulting in more transparent findings and better communication of insights and trends
- Formulated regression and clustering models to predict pollution levels in over 50 NYC neighborhoods, providing valuable environmental insights and forecasts
- Enhanced the prediction model, significantly increasing accuracy from 40% to 70%, thereby improving the reliability of neighborhood demographic and pollution forecasts