

# Nicholas Feng Schaefer

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## SUMMARY

Quantitative economist with expertise in econometric modeling, machine learning, and data analysis, applying advanced statistical techniques to solve complex problems in business, research, and policy contexts. Master’s in Quantitative Economics with experience assessing economic impacts and informing data-driven decisions. Proficient in R, Python, and SQL for predictive modeling, causal inference, and data insights. Skilled in presenting complex findings and collaborating with cross-functional teams to deliver impactful results across diverse sectors.

## EDUCATION

California Polytechnic State University, San Luis Obispo	June 2024
M.S. Quantitative Economics	GPA: 4.0, With Distinction
California State University, Monterey Bay	May 2023
B.S. Business Administration, Concentration in Information Systems	GPA: 3.86, Magna Cum Laude

## PROJECTS

World Bank Graduate Consultant   Remote	Technology: R, RMarkdown, LaTeX January 2024 – June 2024
Evaluated the impact of an income subsidy and electric vehicle loan program on boda boda riders' disposable income in Kenya, revealing a 17% to 42% decrease for participants compared to the control group.	
<ul style="list-style-type: none"><li>Applied propensity score matching and quantile regressions to isolate the causal effect of the program, addressing challenges like selection bias, outliers, and self-reported inaccuracies to improve the robustness of the results.</li><li>Contributed findings that led the World Bank to expand the project into a randomized controlled trial (RCT) to further assess the program’s impact on a broader scale.</li><li>Delivered comprehensive outputs, including a research paper, detailed readme documentation, and a recorded presentation, which were well-received by World Bank correspondents and influenced further funding decisions.</li></ul>	
Major League Baseball (MLB) All-Star Prediction	Technology: R (tidymodels, Quarto) August 2023 – December 2023
Developed a predictive model for MLB All-Star Team selection, using Kaggle datasets and players' previous season performance, leveraging statistical learning techniques to improve prediction accuracy.	
<ul style="list-style-type: none"><li>Improved model performance by addressing data imbalance and applying machine learning algorithms such as K-Nearest Neighbors, Random Forests, and Support Vector Machines, resulting in a 96% precision rate and an 81% recall rate.</li><li>Optimized feature selection and model tuning, significantly enhancing the model’s ability to predict All-Star selections with greater reliability.</li></ul>	
Miss Lippe’s Dumpling Party   Monterey, CA Business Consultant – Capstone Project	Technology: Google Sheets, Google Slides February 2023 – May 2023
Served as a business consultant for a local company, collaborating closely with the owner through weekly meetings to align research and recommendations with the company’s strategic goals.	
<ul style="list-style-type: none"><li>Conducted a comprehensive SWOT analysis, identifying key internal strengths and weaknesses, as well as external opportunities and threats, which informed the development of a data-driven strategic plan aimed at business growth.</li><li>Implemented a small-scale ERP system with Google Sheets, improving data accuracy and operational efficiency by 30%.</li></ul>	

## WORK EXPERIENCE

California Polytechnic State University, San Luis Obispo Research Assistant	San Luis Obispo, CA November 2023 – January 2024
<ul style="list-style-type: none"><li>Applied double machine learning models using Python and the DoubleML package to analyze the impact of media coverage on personal donations in a confidential dataset.</li><li>Performed thorough data analysis to support the professor, enabling faster research progress and timely insights.</li><li>Conducted an extensive literature review, synthesizing key findings and addressing the professor’s specific inquiries to support ongoing research efforts.</li><li>Played a crucial role in proofreading and editing a 25-page academic paper, ensuring clarity, coherence, and adherence to academic standards, which contributed to the paper’s submission readiness.</li></ul>	
California State University, Monterey Bay – College of Business Office Assistant	Seaside, CA June 2022 – May 2023
<ul style="list-style-type: none"><li>Streamlined inventory tracking by automating reorder processes, improving office efficiency, and reducing manual errors.</li><li>Optimized office operations by managing communications and coordinating key administrative tasks to ensure smooth daily functions.</li></ul>	

## SKILLS & CERTIFICATES

Programming Languages: Python, R, SQL, VBA, SAS, Git, Bash
Software: MS Excel, Tableau, SAP S/4 HANA
Modeling & Analysis: Statistical Modeling, Econometrics, Predictive Analytics, Causal Inference, Data Transformation
Languages: German (Native), Mandarin (Native), French (Intermediate), Spanish (Beginner)
Certificates: Tableau Desktop Specialist, Google Advanced Data Analytics Professional