

WESLEY JANSON

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EDUCATION

University of Chicago

June 2023

M.S., Computational Analysis and Public Policy

University of Minnesota-Twin Cities

May 2018

B.A., Economics

TECHNICAL SKILLS

Computer Languages

R (*rshiny*, *tidyverse*, *nnet*), Python (*pandas*, *sklearn*, *PySpark*), SQL, Stata

Software & Tools

L^AT_EX, Git/Github, Microsoft Office Suite, Bloomberg, Amazon Web Services

PROFESSIONAL EXPERIENCE

Internal Revenue Service, U.S. Department of the Treasury

July 2023 – Present

Data Scientist

- Collaborate cross-functionally with IRS divisions to identify and resolve data challenges, leveraging statistical modeling and engineering techniques to develop solutions supporting tax policy and operational decision-making
- Develop and maintain the Enterprise Planning Scenario Tools, a suite of RShiny dashboards within the Automated Analytics Lab of the Office of Research, Applied Analytics, and Statistics, enabling internal stakeholders to optimize workforce allocation for approximately 8,000 employees, representing a budget of around \$400 million

University of Chicago, Harris School of Public Policy

Affiliated Researcher

July 2023 – Present

- Conduct [original research](#) in municipal finance applying modern portfolio theory to explore risk asymmetry and service-driven revenue structures, developing a corresponding R package that optimizes portfolios and generates efficient frontiers

Technical Assistant, Professor Justin Marlowe

May 2022 – July 2023

- Overhauled the Harris School's [Center for Municipal Finance website](#), integrating event updates, media coverage, research, and data, including launching the "CMF Data Dashboard" to provide interactive visualizations on municipal bond trading, pricing, and liquidity
- Using a repeat-sales regression methodology, created a municipal bond index gauging 50 individual city/county/school district financial health and market sentiment, featured in Bloomberg News and [Crain's Chicago Business](#), and found on the CMF Data Dashboard

Securities Quote Xchange (SQX)

May 2022 – July 2023

Data Science Consultant

- Provided research support for SQX – a financial services firm specializing in alternative trading systems for fixed income securities – deploying data management practices, econometric and machine learning modeling using R, Python, and SQL to enhance products for clients
- Developed, trained, and iterated a data-driven approach to grouping peer bonds in SQX's municipal bond pricing model – used by traders, analysts, and regulators – creating time-consistent groupings and reducing run-time by 90%
- Implemented an internal credit ratings system using a gradient-boosted tree machine learning algorithm, assigning ratings to approximately 500,000 otherwise unrated municipal bonds, further strengthening SQX's analytical capabilities in fixed-income markets

Federal Reserve Bank of Cleveland

September 2018 – August 2021

Research Analyst

- Advanced six [research](#) projects aimed for public release and academic journal submission by gathering and pre-processing relevant data, performing econometric analysis in R and Stata, and writing up findings
- Enhanced preparation to the monetary policy-making process by supporting bank economists with briefings on financial and macroeconomic conditions ahead of the bi-quarterly Federal Open Market Committee meetings by automating data collection, creating data visualizations and other research material