

(913) 206-8158
Kansas City, KS
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John D'Attoma

Senior Data Scientist / Political Economist

linkedin.com/in/johndattoma

Senior Data scientist with 10+ years of experience in advanced analytics, machine learning, and leading cross-functional teams. Proven track record of delivering impactful insights through predictive modeling, NLP, and customer behavior analysis. Experienced in driving data-informed decision making through advanced analytics/statistics, experimental design and causal inference methodologies.

SKILLS

Languages & Tools	Python, SQL, R, Stata
Data Analysis	Customer Analytics, ETL Pipeline Development, Dashboard Design, Experimental Design, NLP, Predictive Modeling, A/B Testing, Statistical Analysis
Leadership	Team Management, Stakeholder Communication, Project Management, Cross-functional Collaboration

TECHNICAL EXPERIENCE

Lead Data Scientist, GS-14 <i>Internal Revenue Service</i>	2023 — Present <i>Remote</i>
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- Led development of NLP (BertTopic, Structural Topic Models) models to classify 50,000+ customer service call transcripts, improving response categorization accuracy by 35%
- Designed and implemented predictive models for employee retention, using Diff-in-Diff and a large-scale RCT
- Developed and automated interactive executive dashboards using R Shiny and PowerBi, reducing reporting time
- Spearheaded customer satisfaction analysis program processing 40,000+ annual responses, quarterly, and annual reports
- Implemented A/B testing, conjoint analysis, and Usability studies for online service improvements, resulting in 21% increase in customer engagement

Social Scientist, GS-13/14 <i>Internal Revenue Service</i>	2020 — 2023 <i>Remote</i>
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- Led cross-functional team in large-scale field experiment, increasing e-file adoption by 18%
- Built automated reporting system for employee surveys, reducing analysis time by 40%
- Developed statistical models to analyze customer experience data, identifying key drivers of satisfaction

Assistant Professor of Taxation <i>University of Exeter Business School</i>	2017 — 2020 <i>Exeter, UK</i>
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- Secured £1.5M in research funding through data-driven project proposals
- Led international data science projects analyzing tax compliance behaviors across 5 countries
- Developed predictive models for tax payment patterns, achieving 75% accuracy
- Mentored 12 PhD students in advanced statistical methods and behavioral economics

Research Fellow <i>European University Institute</i>	2015 — 2017 <i>Florence, Italy</i>
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- Designed and implemented large-scale behavioral experiments across 5 countries with 3,000+ participants
- Built statistical models to analyze cross-national compliance patterns, identifying key behavioral factors
- Developed data collection and analysis pipelines for multi-country research collaboration
- Created automated reporting workflows for government stakeholders using R and Python

EDUCATION

Ph.D., Political Economics, University of Missouri, St. Louis	2015
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- GPA: 3.98/4.0
- Dissertation: Applied machine learning techniques to analyze cross-national tax compliance behavior
- Advanced coursework: Statistical Analysis, Machine Learning, Econometrics

M.A., Political Economics, University of Missouri, St. Louis	2013
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- GPA: 3.9/4.0
- Focus: Quantitative Research Methods and Data Analysis

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ACTIVITIES

Awards & Recognition

- 2024 IRS Commissioner's Award for Excellence in Data-Driven Decision Making
- 2018 University of Exeter Business School "Best Teacher Award"
- 2018 Northeastern Political Science Association Best Paper Award
- 2017 International Advisory Board Research Grant (£12,000)

Selected Publications

- D'Attoma, J., & Steinmo, S. (2021). "Willing to Pay: A Reasonable Choice Approach". *Oxford University Press*
- Tuxhorn, K.-L., D'Attoma, J., & Steinmo, S. (2021). Do citizens want something for nothing? Mass attitudes and the federal budget. *Politics & Policy*
- Tuxhorn, K.-L., D'Attoma, J., & Steinmo, S. (2021). Assessing the stability of fiscal attitudes: Evidence from a survey experiment. *Public Administration*
- D'Attoma, J. (2020). More bang for your buck: Tax compliance in the United States and Italy. *Journal of Public Policy*, 40(1), 1–24
- Tuxhorn, K.-L., D'Attoma, J. W., & Steinmo, S. (2019). Trust in government: Narrowing the ideological gap over the federal budget