

Yannis Vassiliadis, PhD

DATA SCIENTIST

Rochester, NY

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SUMMARY

Curious and creative Data Scientist with more than 10 years of academic and industry experience in data wrangling and applied data analysis, experimental design, and predictive modeling. Deeply passionate about critically exploring new data, as well as effective at communicating and discussing insights with relevant stakeholders at all levels. **R** and New York Times crossword geek.

AREAS OF EXPERTISE

Technical Languages	R Python SQL/relational Markdown \LaTeX
Tools & Applications	Machine Learning Tools (caret, e1071, SciPy, scikit-learn) Visualization & Dashboards (ggplot2, Matplotlib, Plotly, PowerBI) Matlab STATA Jupyter Notebooks
Math and Statistics	Regression and Classification analysis Predictive Modeling (supervised and unsupervised) Feature Selection & Dimensionality Reduction (LASSO, Elastic Nets, PAC) A/B Testing
Teamwork	Cross-functional Collaboration & Communication (especially with Product, Engineering, and BI) Problem Solving Critical and Analytical Thinking Product & Team Management

PROFESSIONAL EXPERIENCE

Gutcheck

Denver, CO (remotely)

DATA SCIENTIST / RESEARCH SCIENCE ANALYST

October 2018 - present

- Serve as subject matter expert on company's statistical methodology and programming needs, ensuring data quality and actionability, redesigning questionnaires, and executing custom advanced analytics projects for clients.
- Ensured data quality and actionability by redesigning aspects of questionnaires, testing and implementing best practices in survey design, addressing recurring issues with sample recruitment, and streamlining established processes for analysis and visualization.
- Assess the quality, veracity, potential impact, and scalability of 2nd and 3rd-party data, as well as execute beta projects based on them, resulting in more than \$150,000 in annual savings and the ability to offer deeper insights into our clients' audiences.
- Create prototype interactive app that automated company's statistical reporting needs, enabling research managers to develop high-quality deliverables, decrease time and cost of report creation, and eliminate user error.
- Use advanced analytics to identify timing and profile of potential service adopters, gauge opportunity size for new products, quantify consumer responsiveness, and other custom analytics projects.

Meliora Research

Rochester, NY

EXTERNAL DATA CONSULTANT (PROJECT-BASED)

October 2017 - April 2018

- Designed and implemented statistical analysis strategies on consumer satisfaction data for outside clients through writing and testing production-level **R** code for further use by clients' engineering teams.
- Successfully implemented relative weight analysis, variable selection methods, multiple testing, and other types of quantitative analysis for clients.

University of Rochester

Rochester, NY

PH.D. CANDIDATE / RESEARCH ASSISTANT / TEACHING ASSISTANT / INSTRUCTOR

Aug. 2011 - July 2018

- Taught **R** and Python, probability theory, data analysis, and econometric linear models to both Ph.D. and undergraduate students.
- Co-authored papers on global willingness to pay for environmental protection, sentiment analysis (NLP) of 19th century French newspapers, and network analysis of corruption in Brazil.
- Wrote dissertation on party departure from governments in Europe (1945 - 2014). I collected a novel dataset of party participation in government and by using MLE of strategic games and other econometric methods, I uncovered evidence of parties' strategic thinking and decision-making in terms of their participation in government and the timing of their exit.

EDUCATION

Ph.D. and Master of Arts in Political Science, University of Rochester

July 2018

Master of Arts in Political Science, Columbia University

May 2009

Bachelor of Arts in International & European Studies, University of Piraeus, Greece

December 2007