

Kivan Polimis

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Data scientist proficient in text as data methods, classification algorithms, and data visualization. Experience combining programmatic approaches to identify cost-effective strategies with diverse data.

Employment

- 2021– Data Scientist, [Karna](#), Atlanta, GA 30345
- 2021–2022 Lecturer, University of Washington, [Department of Sociology](#), Seattle, WA 98195
- 2021–2021 Senior Policy Advisor, Office of [Harris County Judge Lina Hidalgo](#), Houston, TX 77002
Created an automated health guidance system to inform policy decisions by integrating public health, surveillance, and administrative data. Co-chaired Harris County’s American Rescue Plan Act Homelessness Working Group and lead development of \$5.5 million permanent supportive housing program.
- 2020– Senior Data Scientist, [Atlas Analytics](#), Houston, TX 77087
Designed end-to-end data fusion approaches to perform market analysis, corporate valuations, and customer analytics. Client solutions merge diverse structured and unstructured data with statistical modeling and machine learning methods to analyze macro- and micro-trends and predict consumer behavior.
- 2018–2020 Data Scientist, [MAANA](#), Houston, TX 77002
Optimized vessel scheduling by building machine-guided, user assisted micro-services to satisfy multiple shipping constraints. Produced baselining forensic analysis of historical trades and vessel utilization that projected nearly \$100 million in annual savings through adoption of [vessel optimization software](#).
- 2017–2018 Postdoctoral Researcher, [Dondena Centre](#), Università Bocconi, Milan, Italy 20136
Modeled population dynamics such as migration and household formation by joining novel computational approaches, APIs, and administrative survey data.
- 2016–2017 Data Science Consultant, King County Auditor’s Office, Seattle, WA 98104
Constructed predictive analytics that included demand projections and alternative-cost comparisons for Paratransit riders by analyzing Paratransit service’s vehicle occupancy, deadhead time, and cost-per-trip. Forecasted \$1.5 million in savings by relocating Paratransit bus depots and optimizing service mix.

Education

- 2017 Ph.D., Sociology, University of Washington
Center for Statistics and the Social Sciences: Certification in Social Statistics
Dissertation: Developing Computational Approaches to Investigate Health Inequalities
advised by: Hedwig Lee (co-chair), Kyle Crowder (co-chair), Emilio Zagheni, Ariel Rokem, and Darryl Holman
- 2012 M.A., Sociology, University of North Carolina at Chapel Hill
Carolina Population Center Pre-doctoral Fellow
- 2009 B.A., Sociology, Princeton University

Affiliations

- 2019– Regional Affiliate, [Center for the Study of Demography and Ecology](#), Seattle, WA 98105
- 2017–2018 Postdoctoral Affiliate, [Bocconi Institute for Data Science and Analytics](#), Milan, Italy 20136

Software

- 2017 **Polimis, Kivan.** “[yandex-translater](#): R package to interface with the Yandex Translate API”
- 2016 Rokem, Ariel, **Kivan Polimis**, and Bryna Hazelton.
“[forest-confidence-interval](#): Confidence intervals for Forest algorithms”

Technical skills

- Instructor [Software Carpentry Instructor](#), [Data Carpentry Instructor](#)
- Software R, Python, Spark, GraphQL, Docker, Jira, Stata, TensorFlow, and Microsoft Office Suite

Tools Git, \LaTeX , shell scripting, Amazon Web Services Products, and Microsoft Azure Products