

# Kivan Polimis

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🌐 kivanpolimis.com | 🔗 kpolimis

Data scientist experienced in Natural Language Processing methods, machine learning classification algorithms, and data visualization. Proven history integrating computationally-intensive approaches to analyze diverse data and identify cost-effective strategies for business processes.

## Employment

- 2021– Senior Policy Advisor, Office of [Harris County Judge Lina Hidalgo](#), Houston, TX 77002
- 2021– Lecturer, University of Washington, Department of Sociology, Seattle, WA 98195
- 2020– Senior Data Scientist, Atlas Analytics, Houston, TX 77087  
Design end-to-end data fusion approaches to perform market analysis, corporate valuations, and customer analytics. Client solutions integrate 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 creating machine-guided, user assisted micro-services to satisfy multiple shipping constraints. Conducted 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  
Formulated passive data collection strategy and statistical analysis for demographic research by building a big data environment on a high-performance computing cluster. Modeled population dynamics by combining 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,  $\text{\LaTeX}$ , shell scripting, Amazon Web Services Products, and Microsoft Azure Products