Kivan Polimis

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

Employment

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 predict consumer behavior and expand a customer base.

2018–2020   Data Scientist, MAANA, Houston, TX 77002
> Optimized vessel scheduling by using machine-guided, user assisted methods to satisfy multi-dimensional constraints with integrated containerized GraphQL micro-services. Performed 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 for scholarly publications by designing a multi-dimensional big data environment to model population dynamics such as migration behavior, family postponement, and political polarization by combining multiple APIs, natural language processing methods, and administrative survey data for analysis on a high-performance computing cluster.

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 between paratransit service and taxi alternatives.

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, GraphQL, Docker, Jira, Stata, TensorFlow, and Microsoft Office Suite

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