# Evgeny Noi

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## Education:

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| **University of California, Santa Barbara (UCSB), Santa Barbara, USA** | 2018 – Present |
| Ph.D. in Geographic Information Science (Spatial Optimization and Statistics) | Expected 2023 |
| M.A. in Data Science | Expected 2021 |
| **Malmo University, Malmo, Sweden** | 2014-2015 |
| M.A. in Organizational Change and Leadership (Visby Scholar) | Sep 2015 |
| **University of Iowa, Iowa City, USA** | 2011-2013 |
| M.S. in Urban and Regional Planning (Fulbright Scholar) | May 2013 |
| **Irkutsk State University, Irkutsk, Russia** | 2006-2010 |
| B.S. in Political Science (Oxford Scholar) | June 2010 |

## Skills:

**Data Analytics:** Linear regression, Generalized Linear Models, Time-Series Modeling, Visual Analytics, Geographic Information Systems, Spatial Statistics, Clustering, Classification

**Programming/Software:** Python, R, MATLAB, Julia, SQL, Spark, Tableau, PostgreSQL, MySQL, SQLite, PIG/HIVE Hadoop, Java, ArcGIS, QGIS, GeoDa, FICO XPRESS, Gurobi, CPLEX

## Work Experience:

**Team Lead**     *The IT Dept. of Moscow Government*     Aug 2017 – Aug 2018

- Promoted cross-team collaborations between multiple big data products and projects to ensure timely and swift delivery of electronic services to residents of Moscow. Initiated and coordinated 20 pilot projects centered on predictive analytics and machine learning, which were successfully deployed in production and increased the funding to Big Data Division tenfold, enabling further expansion of digital services across multiple departments of city government.

**Data Analyst**     *The IT Dept. of Moscow Government*     Dec 2015 – Aug 2017

- Automated the analytical pipeline for tax impact assessment in Moscow, which accelerated statistical modeling by the factor of 15 and allowed to predict the taxation reform effects at the finer level of detail.
- Developed and deployed gradient boosted decision tree model with 78 indicators to evaluate the risk of fires throughout the city and prioritize fire inspections.
- Designed and set up an analytical dashboard to monitor and forecast flu outbreaks in Moscow schools, facilitating more expeditious decision-making practices and responsive quarantine protocols.
- Engineered 50+ spatially explicit predictors to be used in large-scale geographically weighted regression to model the flow of movement between different neighborhoods of the city, promoting fine-tuned fiscal practices in planning for new infrastructure.

**GIS Analyst**     *Geogracom Ltd.*     May 2013 – Sep 2014

- Created and managed PostgreSQL + PostGIS database which accelerated the spatial analysis by the factor of six (compared to pure ArcGIS implementation).
- Maintained end-user documentation for developed GIS solutions and administered training for newly available GIS products.

## Research Experience:

**Graduate Student Researcher**     *MOVE Lab, UCSB*     Sep 2019 – now

- Designed a multisource analytical framework for exploration of spatiotemporal structure of mobility during the COVID-19 pandemic.
- Reviewed 150 research papers and identified the most effective techniques for visualizing human and animal mobility, underlining design and algorithmic limitations of the current state-of-the-art tools and highlighting promising avenues for the next generation of geovisualization software.
- Contributed code to analytical Python package (VASA) that enables brisk multi-level exploratory spatiotemporal analysis on areal data.

## Publications and Conference Presentations:

Publications: 5 peer-reviewed papers. 6 presentations at the academic conferences.