Dmitry Solovyev

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Professional Experience

Statistical Consultant – Oregon State University   09/22 – Present time

- Developed and applied statistical analysis strategies across a variety of academic research projects, leading to significant improvements in study methodologies and contributions to scholarly publications
- Partnered with academic peers to clarify research goals, define project scopes, and determine key deliverables, ensuring alignment on expectations and communication throughout the project lifecycle

Graduate Teaching Assistant – Oregon State University   09/22 – Present time

- Analyzed data sets using R and Python and demonstrated practical applications of statistical methods to over 1,000 students, enhancing their ability to apply theoretical knowledge in real-world scenarios
- Enhanced student engagement and understanding of statistical theories by incorporating interactive data visualization tools and real-world data sets into lesson plans

Research Analyst – Central Oregon FUSE   12/21 – 04/22

- Extracted quantitative data on existing permanent supportive housing projects using SQL and R
- Conducted power analysis to determine sample sizes for a comparative housing project across different counties
- Created a comparative report to promote a supportive housing project to local authorities and investors
- Provided support on applying statistical methods to the qualitative research team

Data & Policy Analyst – Center for Advanced Governance   05/19 – 12/21

- Created and maintained databases to analyze policy metrics in socioeconomic, foreign and healthcare domains
- Built and maintained data dashboards on various policy issues using R and Shiny
- Utilized network analysis to design and coordinate a study on the reforms of the national diplomatic service
- Developed and promoted guidelines for federal ministries' internal operation procedures
- Developed guidelines for the internal operating procedures of federal agencies based on the performance metrics

Policy Analyst – Center for Strategic Research   09/18 – 04/19

- Performed comparative analysis of international trade and economic policies using linear regression models and communicated results to the stakeholders
- Created random forest models for prediction of regional trade and economic policy changes
- Wrote SQL queries to prepare data for a comparative analysis

Education

Master of Science in Statistics | Oregon State University | Corvallis, OR	2022-2024
Master of Public Policy | Oregon State University | Corvallis, OR	2021-2023
Master of International Relations | Moscow State Institute of International Relations | Moscow, Russia	2016-2018
Bachelor of Political Science | Lomonosov Moscow State University | Moscow, Russia	2012-2016

Skills

Software	R (tidyverse, lme4) | Python (numpy, pandas, sklearn, plotly) | SQL | SAS | ArcGIS | Tableau STATA | zsh | vim | BigQuery | pyspark | Google Cloud | AWS
Statistical Methods	Generalized Linear Models | Power Calculations | Experiment Design | Hypothesis Testing Time Series | Cluster Analysis | Network Analysis | Bayesian Statistics

Projects

COVID-19 data quality analysis and their effect on policymaking in Russia

- Created a supervised machine learning model to classify unreliable COVID-19 data on mortality and spreading rates
- Evaluated model performance with time-series cross-validation and visualized training and validation results
- Implemented a synthetic control method to evaluate the effectiveness of a policy intervention in addressing the pandemic