

Dmitry Solovyev

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I am an experienced statistician and policy analyst specializing in data analysis and policy evaluation within social-economic, healthcare, and international contexts. My expertise lies in applying advanced quantitative and qualitative methods to solve complex policy challenges and enhance decision-making processes in healthcare.

EDUCATION

- **Master of Science in Statistics**, Oregon State University 2022 – 2024
 - Project: COVID-19 data quality analysis and their effect on policymaking
- **Master of Public Policy**, Oregon State University 2021 – 2023
 - Project: The controversies around Russia's COVID-19 data during the pandemic
- **Master of International Relations**, Moscow State Institute of International Relations 2016 - 2018
- **Bachelor of Political Science**, Lomonosov Moscow State University 2012 - 2016

EXPERIENCE

Statistical Consultant | Oregon State University | Corvallis, OR 09/22 – 06/24

- Developed and applied statistical analysis strategies across various academic research projects, significantly improving study methodologies and contributing to scholarly publications.
- Partnered with academic peers to clarify research goals, define project scopes, and determine critical deliverables, ensuring alignment on expectations and communication throughout the project lifecycle.

Graduate Teaching Assistant | Oregon State University | Corvallis, OR 09/22 – 06/24

- 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 | Bend, OR 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 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 | Moscow, Russia 05/19 - 12/21

- Created and maintained databases to analyze socioeconomic, foreign and healthcare policy indicators.
- 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 diplomatic service.
- Developed guidelines for the internal operating procedures of federal agencies based on performance.

Policy Analyst | Center for Strategic Research | Moscow, Russia 09/18 - 04/19

- Performed comparative analysis of international trade and economic policies, created predictive models, and communicated results to the stakeholders.
- Created predictive models for regional trade and economic policy.
- Wrote SQL queries to prepare data for a comparative analysis.

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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 | Survival Analysis

PUBLICATIONS

Krasnova, G., Reinhardt, R., Solovyev, D., Shakirov, O. 'New horizons in Russia's science diplomacy.' *Russian International Affairs Council* (2020).

Solovyev, D., Shakirov, O. 'Open data in diplomacy: Russia in the context of foreign practices.' *Center for Advanced Governance* (2021).

Solovyev, D., Shakirov, O. 'Reforms of Diplomatic Agencies in the Face of New Foreign Policy Challenges.' *Center for Advanced Governance* (2019).

Solovyev, D., Shakirov, O., and Petrosyan, M. 'Humanitarian aid to address COVID-19. Who and how did Russia help during the pandemic?' *Center for Advanced Governance* (2020).

PROJECTS

COVID-19 data quality analysis and their effect on policymaking

- Developed an SIR model to predict COVID-19 incidence counts based on mortality data using the MCMC algorithm.
- Evaluated model performance with time-series cross-validation and visualized training and validation results.
- Implemented a synthetic control method to evaluate the effectiveness of policy interventions in addressing the pandemic.

Network Exploration of Maize Ds GFP Insertional Mutations

- Applied network analysis to explore the relationship between the maize protein-protein interaction network and the fitness cost of a genetic mutation.
- Calculated betweenness centrality for each of the 123 target nodes using the igraph package in Python.
- Utilized k-fold cross-validation to evaluate the performance of the OLS model.

Russia's COVID-19 Humanitarian Aid Dataset

- Developed and managed a comprehensive dataset on Russia's COVID-19 humanitarian aid.
- Conducted data validation and cleaning processes to ensure high-quality and reliable data for analysis.
- Implemented an interactive dashboard to visualize and the distribution and impact of humanitarian aid.

CONFERENCES

International Studies Association Annual Convention | Participant & Speaker | Nashville, TN 2022

- Russia's Vaccine Diplomacy Controversy During the COVID-19 Pandemic
- Data-Based Analysis of Russian Humanitarian Aid During the Pandemic (Co-Author)
- Unexpected Success Story: Why Parallel Cybersecurity Talks at the UN Did Not Fail (Co-Author)

HONORS & AWARDS

Junior Ambassador | Munich Security Conference | Munich, Germany 2018