Dmitry Solovyev

5412868600 | soldmibor@gmail.com | linkedin.com/in/dmitrysolovyev1995 | xeshbeluk.github.io

Experienced statistician, data, and policy analyst with 5+ years of expertise in statistical analysis, data management, and policy evaluation. Proficient in R, Python, and SQL. Led projects developing guidelines, creating forecasting models, and maintaining dashboards. Skilled in communicating with clients and stakeholders.

EXPERIENCE

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

- Performed statistical analysis strategies across public health and biostatistics research projects
- Applied clinical trial design, sample size calculations, protocol development, case reports, and validation
- Communicated with clients to clarify research goals and project scope and determine critical deliverables

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

- Demonstrated practical applications of statistical methods to over 1,000 students, enhancing their ability to apply theoretical knowledge in real-world scenarios
- Reviewed data collection and analysis performed by students in R and SAS
- Incorporated interactive data visualization tools (Tableau, ggplot2) and data sets into lesson plans

Research Analyst | Central Oregon FUSE | Bend, OR   12/21 - 04/22

- Compiled SQL scripts to extract quantitative data on existing permanent supportive housing projects
- Conducted power analysis to determine sample sizes for a comparative housing project across counties
- Created a comparative report to promote the 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

- Engineered and administered databases to track socio-economic and healthcare policy metrics
- Created and sustained healthcare dashboards using R and Shiny for data visualization
- Designed and coordinated a comprehensive study on federal agencies' reforms using mixed-methods research and stakeholder engagement strategies
- Formulated and implemented guidelines for standard operating procedures in public agencies based on key performance indicators

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

- Developed SQL scripts to automate data collection for monthly reports
- Created econometric models to forecast future developments in the energy sector
- Conducted comparative analysis of international trade and economic policies using statistical techniques
- Collaborated with other teams on research and analysis of the impact of proposed legislation

EDUCATION

- **MS in Statistics**, Oregon State University   2022 – 2024
- **Master of Public Policy,** Oregon State University   2021 – 2023
- **Master of International Relations,** Moscow State Institute of International Relations   2016 - 2018
- **Bachelor of Political Science,** Lomonosov Moscow State University   2012 - 2016

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SKILLS

Software: R (tidyverse, lme4) | Python (numpy, pandas, sklearn, plotly) | SQL | SAS | ArcGIS | STATA | zsh vim | BigQuery | pyspark | GCP | AWS | Tableau | Power BI

Statistical Methods: Generalized Linear Models | Power Calculations | Experiment Design | Hypothesis Testing Time Series | Cluster Analysis | Network Analysis | Bayesian Statistics | Survival Analysis | Data Management Clinical Trial Design | CDISC (SEND, ADaM, SDTM)

PUBLICATIONS

- Krasnova, G., Reinhardt, R., Solovyev, D., & Shakirov, O. (2020). New horizons in Russia's science diplomacy. *Russian International Affairs Council*
- Solovyev, D., & Shakirov, O. (2021). Open data in diplomacy: Russia in the context of foreign practices. *Center for Advanced Governance*
- Solovyev, D., & Shakirov, O. (2019). Reforms of diplomatic agencies in the face of new foreign policy challenges. *Center for Advanced Governance*
- Solovyev, D., Shakirov, O., & Petrosyan, M. (2020). Humanitarian aid to address COVID-19: Who and how did Russia help during the pandemic? *Center for Advanced Governance*

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 Markov chain Monte Carlo algorithm
- Evaluated model performance with time-series cross-validation and visualized results using R and Tableau
- 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

Geospatial Dashboard of Russia's COVID-19 Aid Distribution

- Created and maintained an extensive dataset detailing Russia's COVID-19 humanitarian aid efforts
- Executed data validation and cleaning procedures to ensure high-quality and reliable data for analysis
- Developed an interactive dashboard to visualize the distribution and impact of the humanitarian aid

PRESENTATIONS

- Solovyev, D. (2022). *Russia's vaccine diplomacy controversy during the COVID-19 pandemic*. Presentation at International Studies Association Annual Convention, Nashville, Tennessee
- Solovyev, D., & Shakirov, O. (2022). *Data-based analysis of Russian humanitarian aid during the pandemic*. Presentation at International Studies Association Annual Convention, Nashville, Tennessee