**Denis Ostroushko, M.S.(C)**

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**PROFILE**

Driven Biostatistician with over five years of experience leading data analysis projects in industry and academic settings. Professional experience demonstrates proven history of successful projects utilizing essential data science and statistical methods to aid decision making process in the business and public health areas. Motivated by complex problems and collaborative environment and committed to delivering accurate and impactful results.

**RELEVANT SKILLS & KNOWLEDGE**

Regression Analysis Machine Learning Predictive Analytics

Statistical Testing  Data Visualization and Reporting Quantitative Research

Strong Mathematical Foundations  Automated Analytical Tools Big Data Management

Analysis Pipeline Design  Statistical Analysis Planning Data Management and Transformation Subject Matter Expert Collaboration Version Control Results Interpretation and Decision Making

**RELEVANT EXPERIENCE**

**Department of Biostatistics – University of Minnesota |** Minneapolis, MN

*Graduate Research Assistant (2023 – Present)*

* Collaborated with Dr. Julian Wolfson to evaluate the impact of cohort definition on the analysis of progression time and rates to Alzheimer’s Disease (AD).
* Leveraged data from the Fairview Health System to conduct a sensitivity analysis study of cohort definitions using survival models in R. Extracted and created data from Electronic Health Records using SQL. Suggested inclusion criteria resulting in robust sample of data and maximized sample size.

*Graduate Research Assistant - Alzheimer’s research project (2023 – Present)*

* Leveraged regression and machine learning methods in R to develop a pipeline to identity variables most associated with AD presence.
* Generalized results to multiple -omics data sources, used novel ML methods in R and Python for integrated data analysis to improve accuracy of predictions by 17% for at-risk of AD population.

**Medica |** Minneapolis, MN

*Healthcare analyst II (2023 – Present)*

* Collaborated with business owners to assess member assistance programs. Used statistical models and simulations with R to understand cost savings distribution. Developed a strategy, resulting in an additional $1,000,000 annualized savings.
* Collaborated with member identification team to improve risk models for hospital readmission. Developed a set of predictive models in R and Python. Best classifier improved AUC score by 15%.
* Automated actuarial completion factors model using SAS. Improved estimation granularity, reduced prediction error by 35%. Reduced delivery time for the final product.
* Led the introduction of benchmarks from Milliman proprietary software. Improved identification of cost savings opportunities and increased strategy transparency.
* Designed, maintained and improved a series of tools to automate data collection and surveillance reporting using SQL and SAS. Reduced ELT efforts by 90 percent and decreased run time of data collection. Surveillance reports were used to find areas appropriate for deeper investigations and statistical studies.

**EDUCATION**

**University of Minnesota – School of Public Health |** Minneapolis, MN

*M.S., Biostatistics (Expected May 2024)*

**University of Minnesota-Morris |** Morris, MN

*B.A., Mathematics, Statistics (May 2019)*

**TECHNICAL SKILLS**

R/Rstudio; SQL; SAS; Python; Github/Gitlab; AWS S3 Databases; ggplot; tidyverse; ShinyApp; flexdashboard