# **DENIS OSTROUSHKO**

# **EDUCATION**

2015

**University of Minnesota** 

MS Biostatistics 3.845 GPA

Minneapolis, MN

**University of Minnesota - Morris BA Mathematics, Statistics** 3.43 GPA

Morris, MN

# PROFESSIONAL EXPERIENCE

# Healthcare Analyst I & II

August 2023 June 2019

Minneapolis, MN Medica

- Collaborated with business owners to assess member assistance programs. Used statistical models and simulations 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. 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
- Led the introduction of benchmarks from Milliman proprietary software. Improved identification of cost savings opportunities and increased strategy transparency.

## RESEARCH EXPERIENCE

## Present August 2023

#### **Graduate Research Assistant**

Master's Thesis

- Minneapolis, MN
- Worked with Dr. Julian Wolfson to evaluate the impact of cohort definition on the analysis results.
- Used data from the Fairview Health System to conduct the study. Created a list of cohorts with varying patient inclusion criteria. Illustrated that cohort definition can result in vastly different analysis results and conclusions.

## Present August 2023

#### **Graduate Research Assistant**

Multiview Data Integrative Analysis of Progression to AD

- Minneapolis, MN
- Developed a pipeline to identify important predictors of Alzheimer's Disease (AD) from lipidomics ADNI data. Generalized pipeline to other genomics data sets.
- Developed and compared multiview data integration methods (SIDA, iDeepViewLearn) to improve detection of at-risk of AD patients among ANDI cohort population.



#### Research Assistant

Truckers & Turnover Research Project

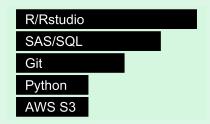
Morris, MN

• Managed scripts to produce publication materials. Presented results of medical cost analysis for truck drivers with OSA as a poster. Helped develop a bootstrap simulation to estimate variance of cost differences.

### **CONTACT INFO**

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- in LinkedIn Profile
- ### denisostroushko1.github.io
- github.com/denisostroushko1

### TECHNICAL SKILLS



#### ANALYTICAL SKILLS

Frequentist and Bayesian Statistics Predictive and Inferential Modeling Correlated and Survival Outcomes Observational Data Causal Inference Study Design, Cohort Construction Simulation Studies

#### DATA SCIENCE SKILLS

Static Reports, Interactive ShinyApps

ggplot and plotly Visualizations

Pipelines from Source Data to Final Products

Big EHR, Claims, Insurance Data Processing

Strong RX, CPT, Diagnosis Codes Understanding

Document powered by pagedown Source code in Git

Last updated on 02/23/2024