

# DENIS OSTROUSHKO



## EDUCATION

Expected  
2024  
|  
2022  
  
2019  
|  
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

August  
2023  
|  
June  
2019

### Healthcare Analyst I & II

**Medica**

📍 Minneapolis, MN

- 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 product.
- 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.

2019  
|  
2018

### 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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🌐 [LinkedIn Profile](#)

🔄 [denisostroushko1.github.io](https://denisostroushko1.github.io)

🐙 [github.com/denisostroushko1](https://github.com/denisostroushko1)

## TECHNICAL SKILLS

R/Rstudio

SAS/SQL

Git

Python

AWS S3

## 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](#)*

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