

# DENIS OSTROUSHKO



## EDUCATION

Expected  
2024  
|  
2022  
  
2019  
|  
2015

### University of Minnesota

**MS Biostatistics** 3.867 GPA

📍 Minneapolis, MN

### University of Minnesota - Morris

**BA Mathematics, Statistics** 3.43 GPA

📍 Morris, MN



## SELECTED EXPERIENCE

Present  
|  
2021

### Healthcare Analyst II

**Medica**

📍 Minneapolis, MN

- Collaborated with business owners to evaluate and improve programs assisting members. Used statistical models and simulations to understand variance of cost savings estimates. Collaboratively developed a strategy to generate additional \$1,000,000 annualized savings.
- Translated actuarial completion factors from spreadsheets to SAS code for automation purposes. Reduced delivery time of monthly completion factors from a few days to a few hours. Implemented a more granular way to estimate these factors, resulting in 35% prediction error reduction.
- Collaborated with member identification team to develop a predictive model for members at risk of a 30-day hospital readmission. Collectively improved AUC score from 0.72 to 0.79.

2021  
|  
2019

### Healthcare Analyst I

**Medica**

📍 Minneapolis, MN

- Refactored legacy SAS and SQL pipeline for monthly large data set processing. Reduced total run time by 60%. Introduced QA checks.
- Produced static and interactive dashboards to visualize and summarize healthcare cost and utilization data for physician services and nursing teams. Automated reports saved 10 hours of manual editing each month.
- Lead the effort to introduce metrics from Milliman proprietary software. New metrics were used for cost savings opportunity identification and lead to more active business units engagement.

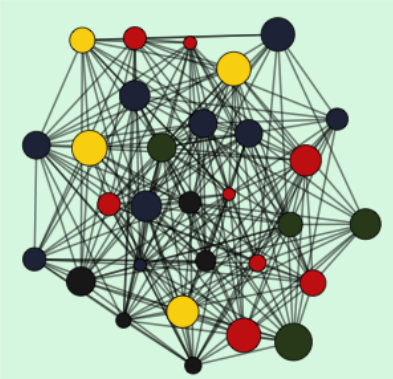
2019  
|  
2018

### 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 difference.



Contact Info

[Gmail](#)  
 [LinkedIn](#)  
 [Website](#)  
 [Github](#)

## TECHNICAL SKILLS

R/Rstudio

SAS/SQL

Git

Python

AWS S3

## ANALYTICAL SKILLS

- Statistical Modeling and Inference
- Predictive Modeling with Modern ML Methods
- Non-parametric Methods
- Evaluation of Estimators and Bootstrapping
- Bias-Variance Decomposition and Model Calibration

## DATA SCIENCE SKILLS

- Static Flexdashboards
- Interactive ShinyApps
- `ggplot` and `plotly` Visualizations
- Efficient Pipelines From Source Data to Data Products
- Big Claims and Insurance Data
- Strong RX, CPT, Diagnosis, E/M Codes Understanding
- Claims Timeline Recreation and Event Ordering Ability From Data Records

Document powered by [pagedown](#)  
Source code in [Git](#)

Last updated on 05/22/2023