

# DENIS OSTROUSHKO



## EDUCATION

Present  
|  
2022



### University of Minnesota

**MS Biostatistics** 3.815 GPA

📍 Minneapolis, MN

2019  
|  
2015



### 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.



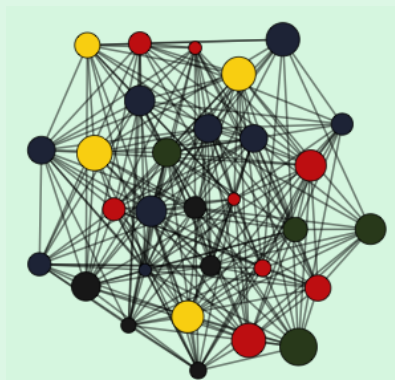
## COMMUNICATION EXPERIENCE

Present  
|  
2020







### Publications and Software

- ["ShinyApp - Market Analysis.\(2021\)"](#)
- ["The Pre-Registry Commercial Driver Medical Examination: Screening Sensitivity and Certification Lengths for Two Safety-Related Medical Conditions.\(2019\)"](#)



Contact Info

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

## TECHNICAL SKILLS

R/Rstudio

SAS/SQL

Git

Python

AWS S3

## ANALYTICAL SKILLS

Statistical Modeling and Inference  
Causal Inference  
Predictive Modeling  
Non-parametric Methods  
Evaluation of Estimators and Bias-Variance

## DATA SCIENCE

Static Flexdashboards  
Interactive ShinyApps  
ggplot visualizations  
Source data-to-report pipelines  
Big Claims and Insurance Data

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

Last updated on 02/09/2023