# Denis Ostroushko

*Curriculum Vitae*

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in *denis-ostroushko*

## Education

**Sep 2022 - Exp. May 2024**  **M.S. Biostatistics, GPA: NA**, *University of Minnesota*, MN.

**Sep 2015 - May 2019**  **B.A. Mathematics and Statistics, GPA: 3.43/4.00**, *University of Minnesota*, Morris, MN.
- Statistics Major GPA: 3.70/4.00
- Mathematics Major GPA: 3.45/4.00

## Work Experience

**Aug 2021 - Present**  **Healthcare Data Analyst II**

**May 2019 - Aug 2021**  **Healthcare Data Analyst**, *Medica*, Minneapolis, MN.
- Collaborated with health services team to design, direct, and conduct statistical studies and simulations to find financial and health value of programs. Suggested areas of improvement for programs and case engagement using insights from statistical models. Presented results of the studies through presentation and reports with detailed description and discussions.
- Designed, maintained and improved a series of tools to automate data collection. Reduced ETL efforts and decreased run time of data collection by 70 percent.
- Collaborated with risk adjustment team to construct and evaluate predictive models to identify members at risk of an unplanned hospital admission, and members at risk of a 30 day re-admission after a discharge date. Re-admission model was estimated to accurately identify 7 percent more re-admission and generate two million dollars worth of saving over the course of a calendar year.
- Engaged with a community of analysts from Healthcare Economics, Provider Analytics, and Finance teams during monthly sessions to share current projects and methods of data analysis. Presented during two monthly sessions about automation of data collection with SAS macros, and use cases of R and RStudio for data visualons and modeling techniques.

**Jan 2018 - May 2019**  **Research Assistant**, *University of Minnesota*, Morris, MN, Truckers & Turnover Research Project.
- Manipulated, cleaned and merged data using STATA, SAS and Microsoft SQL Server to manage medical records, insurance claims, and operational data provided by a national scale trucking company.
- Helped to develop statistical analyses that show the effects of sleep apnea and other conditions on truck drivers' performance and medical costs.
- Helped prepare and manage new generation of data from research partners and prepared training materials for future students using these data.

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| Sep 2017 - May 2018 | **Data Analyst Intern**, *University of Minnesota*, Morris, MN. |

○ Worked with the office of admissions on an interdisciplinary team of students to analyze recruitment and website usage for the university.

○ Received, processed, and structured spreadsheet data from the IT department using R and RStudio. Consulted with a faculty member to make sure the data was ready for visualization and summary.

○ Delivered multiple informative and insightful tables and graphs for a final presentation at the research symposium.

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| Sep 2016 - May 2018 | **On-Campus Tutor**, *University of Minnesota*, Morris, MN. |

○ Assisted students with introductory statistics, economics, and calculus homework assignments and learning process during one-on-one sessions.

○ Led group tutoring sessions for multiple students during drop in hours collectively with other tutors.

○ Helped many students improve their performance in class by one letter grade on average, while staying focused on learning and understanding the material first.

○ Participated in leadership and learning sessions to share multiple effective teaching styles with incoming tutors.

## Publications

S. Burks, J. Anderson, B. Panda, H. Haider, R. Haider, D. Shi, Y. Li, M. Cagle, D. Ostroushko, Z. Sun, J. Zaharick, J. Hickman, E. Mabry, M. Berger, C. Czeisler, and S. Kales, "The pre-registry commercial driver's medical exam: Screening sensitivity and certification lengths for two safety-related medical conditions," *Journal of Occupational and Environmental Medicine*, vol. 62, p. 1, 01 2020.

## Personal Project

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| May 2020 - Present | **Interactive Market Analysis Dashboard**. |

○ I employ RStudio's ShinyApp and AWS database to interact with up-to-date data.

○ This dashboard summarizes historical and most recent trading data and model outputs for several digital assets.

○ Market indicators consist of traditional technical analysis and my experimental tools.

○ A public version of my dashboard is deployed on this website

## Activities and Leadership Roles

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| Apr 2018 | **Midwest Undergraduate Data Analytics Competition** . |

Competed against undergraduate students to provide data driven marketing solutions for Minnesota Wild, the data sponsor of the contest. Our team presented a model-driven insights and season ticket holder retention strategies.

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| March 2018 - March 2019 | **University of Minnesota-Morris, Budget Allocation Committee**. |

Served as a member on a committee to allocate funds to various on-campus student clubs and organizations. Our committee allocated budget once a year for the upcoming academic year and held smaller hearings twice in each semester.

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| Sep 2015 - Nov 2018 | **University of Minnesota-Morris Men's Soccer Team**. |