

SHAGHAYEGH ROUHI

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EDUCATION

University of Nebraska-Lincoln, Lincoln, NE

Bachelor of Arts, May 2026 GPA: 3.8/4.0

Major(s): Data Science | Minor(s): Economics, Computer Science, Math, Statistics

EXPERIENCE

UCARE Research, *University of Nebraska-Lincoln*, Lincoln, NE | September 2024 – Present

- Develop nonlocal analytical models to process and interpret irregular data, leveraging nonlocal derivatives where classical methods fall short.
- Conduct theoretical investigation and numerical convergence studies using MATLAB and Python to validate model efficacy and scalability.
- Integrate machine learning techniques to predict outcomes on large datasets, enhancing the model's accuracy and scalability.

Data Analyst Intern, *Nebraska Department of Transportation (NDOT)*, Lincoln, NE | May 2024 – Present

- Create a director's dashboard using PowerBI, providing real-time analytics into key department metrics, supporting efficient, data-driven decision-making.
- Develop a predictive statistical model using R Studio and multiple linear regression to forecast future federal performance measures, enhancing strategic planning capabilities.
- build a search tool and CMS extension in C# and Umbraco to streamline innovation challenge submissions and organizational tasks.
- Conduct data cleaning and comprehensive weather performance analysis utilizing R Studio and Python and data visualization through GIS and Tableau to enhance data-driven decision-making improvements in Nebraska.

Learning Assistant and Tutoring, *Microeconomics LA and Tutoring*, Lincoln, NE, January 2024 – August 2024

- Promoted students' understanding of the course materials and concepts by holding weekly and exam reviews.
- Collaborated with faculty to improve course management, grading, and student communications, using data-driven analysis to enhance course delivery and engagement.
- Communicate with the students through Canvas, email, in-person, and virtual meetings to assist them with their concerns and challenges in the course.

SKILLS

Programming Languages: Python, SQL, R, C#, HTML

Data Science & Analytics: PowerBI, Tableau, Jupyter, Pandas, NumPy, Matplotlib, Seaborn, relational databases

Machine Learning & Statistical Analysis: Regression, clustering, hypothesis testing, time series analysis

ACHIEVEMENTS

Dean's List, University of Nebraska-Lincoln (Fall 2022, Fall 2023, Spring 2024, Fall 2024)

UCARE Research Fund Recipient

INVOLVEMENT

ODE (Omicron Delta Epsilon), Economics Honor Society, member chair, September 2023- May 2024

Creative Writing Club, member, Lincoln, NE, March 2023- present

CERTIFICATES

ERC (Employment Readiness Certificate)

Business Computer Applications