Richard Feir

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RELEVANT WORK EXPERIENCE

Research Scientist, Challey Institute of NDSU   October 2023 – Present
- Work with many datasets ranging from scraping the web to ACS Microdata. Use Python to manipulate and explore data. Use R for econometrics, and machine learning.
- Wrote a policy brief on the North Dakota Teacher Shortage which also led to an op-ed, radio interview, and meeting with a policy advisor for the governor's office.

Graduate Research Assistant, Applied Econ at NDSU   September 2022 – December 2023
- Master's Thesis utilized fixed effects Poisson regression and other methods to analyze the effect that Good Samaritan laws, drug-induced homicide laws, and naloxone access laws have on opioid-related deaths.
- Used Python to manipulate large datasets and web scrape.
- Developed a project using Monte Carlo simulation to minimize the expected cost of several health care plans offered to new Moorhead teachers accounting for planned expenses, family size, and pregnancy to show stochastic dominance and risk.
- Used Stata for regression and forecasting, including OLS, Granger Causality, GLS, 2SLS, MLE, ARCH, and GARCH models.
- Used GAMS for optimization modeling using linear and integer programming, model validation, and sensitivity analysis.

Teacher, Moorhead High School, Moorhead, MN   September 2018 – October 2023
- Created curriculum and taught AP US History, Economics, American Government, AP Microeconomics, AP Macroeconomics and AP Comparative Government.
- Of my students, 82.1% passed their AP exam for credit, above world and state averages. I encourage all students to take the exam.
- I maintained a growth mindset each day and strove to improve my students' self-efficacy. Former students often say they learned a lot and had fun in my class.
- Helped colleagues create online videos, automate Google Meet attendance in excel, and adjust teaching structure during COVID-19 distanced learning.
- Used PowerSchool and Schoology for Learning Management Systems.

Business Owner, Feir's Window Cleaning, Fargo, ND   April 2017 – December 2020
- Started a business to bring experience and examples into economics classes.
- Developed a pricing strategy for commercial versus residential window and gutter cleaning.
- Organized a schedule that accounted for weather and external factors.
- Created and distributed advertisements in partnership with realtors.

EDUCATION

MS in **Agribusiness and Applied Economics**   September 2022 – August 2024
North Dakota State University (NDSU), Fargo, ND
- GPA 3.59; courses have covered statistics, econometrics, maximization, and linear algebra.
- Currently adding a Big Data certificate, to be completed Summer 2025.

BS in **Social Studies Education -** Emphasis in **History** and **Economics**   December 2017
Minnesota State University Moorhead (MSUM), Moorhead, MN
- Leadership in Bridges International, Students Internationally Together, and Chi Alpha.

TECHNOLOGY PROFICIENCY
- Microsoft Office Products.

- Python, Stata, and R for data wrangling, regression, simulation, forecasting, and machine learning.
- Utilizing large datasets, like American Communities Survey files.
- Familiar with using APIs.
- GAMS for optimization and @Risk for Monte Carlo Simulation.
- ArcGIS, R, and Python for creating map variables.

PUBLICATIONS

- "On Your Side? The Effects of Good Samaritan Laws, Drug-Induced Homicide Laws, and Naloxone Access Laws on Opioid-Related Deaths," North Dakota State University Graduate School, 2024. **LINK**
- "Teacher retention will take more than salary increases," North Dakota Monitor, 2024. **LINK**
- "Solutions for the Teacher Shortage in North Dakota," Sheila and Robert Challey Institute for Global Innovation and Growth at North Dakota State University, 2024. **LINK**
- "The Unseen Role of Standardized Testing in Equalizing Opportunities | Opinion," The Messenger, 2024. **LINK**
- "Unlocking the potential of North Dakota's Indian reservations [Letter to the Editor]," Inforum, 2023. **LINK**