LEVI ALTRINGER

Data Scientist | Statistician | Economist

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Expert in leading technical initiatives to extract, integrate, and analyze complex relational data using Python and R. Over 6 years of experience developing statistical and machine learning models, performing trend analysis, and deploying interactive dashboards to drive federal decision-making. Proven record of managing the full data lifecycle—from hypothesis testing to rigorous quality checking. Accomplished communicator with 12+ peer-reviewed publications and adept at translating technical analyses into actionable insights for diverse stakeholders, ranging from executive leadership to non-technical operational staff.

EXPERIENCE

Economist (0110; GS-13) (Full-Time, 40hrs/wk)
USDA APHIS WS National Wildlife Research Center

📅 Apr. 2023 – Ongoing   📍 Fort Collins, CO

Lead technical initiatives across the full data science lifecycle—planning, coding, testing, and deploying statistical models—to extract and integrate information from relational databases for federal risk management.

- **Interactive Dashboards:** Led a cross-functional team to deploy an R/Shiny tool; personally programmed simulation algorithms for stakeholder hypothesis testing and prescriptive policy analysis.
- **Predictive Modeling:** Developed Python/R statistical models for wildlife hazard management; identified a 7:1 benefit-cost ratio to justify and influence national program investment.
- **Causal Inference:** Performed complex analysis of the Feral Swine Control Program; used advanced econometrics to identify cost-savings while conducting rigorous quality checks on model output.

Research Associate (Full-Time, 40hrs/wk)
Colorado State University

📅 Feb. 2020 – Mar. 2023   📍 Fort Collins, CO

Developed statistical algorithms and predictive models using R and Python; integrated complex relational datasets to perform trend analysis and inform prescriptive analytics.

- **Algorithm Development (ML/AI):** Engineered machine learning models to enhance the precision of financial risk assessments; improved prediction accuracy by training models on millions of flight observations.
- **Data Query & Integration** Extracted and integrated information from multiple relational databases to quantify network-wide financial impacts of flight disruptions and wildlife-aircraft collisions.
- **Trend Analysis:** Conducted large-scale causal analysis to identify emerging patterns in transportation safety, developing testing hypotheses to inform federal risk management strategies.

ACHIEVEMENTS

🏆 **USDA NWRC Publication of the Year (2025)**
Return-on-investment analysis for wildlife hazard management programs at airports.

🔖 **USDA Certificate of Merit (2025)**
For applying cutting-edge econometric methods, demonstrating creativity and expertise in economic analysis.

📚 **Published Extensively**
12+ peer-reviewed articles in professional journals of science, economics, transportation, public health, and education.

SKILLS

Data visualization | Causal inference

Machine learning methods

Forecasting and prediction
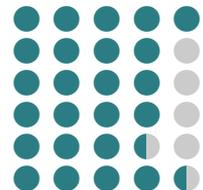
Program evaluation | Cost-Benefit analysis

R
Python
SQL
Shiny
Tableau
MS Office (Excel, etc.)

Proven experience in **project management** and **effective communication** of complex data and insights to diverse stakeholders.

EDUCATION

Ph.D. in Economics
Colorado State University (GPA: 4.0/4.0)

📅 Jan. 2019 – Aug. 2022

M.A. in Economics
Colorado State University (GPA: 4.0/4.0)

📅 Aug. 2016 – Dec. 2018

🏆 L.S. and Chuen-mei Fan Graduate Scholarship in Public Economics (2018)

B.S. in Economics & Mathematics
Linfield University (GPA: 3.6/4.0)

📅 Aug. 2011 – Dec. 2015

🏆 Distinguished Graduate in Dept. of Mathematics & Dept. of Economics (2015)