**ELMIRA KALHOR**  
San Francisco Bay Area, CA | (303) 909-3008 | elmira.kalhor@gmail.com| US Citizen

**PROFESSIONAL SUMMARY**

Data-driven researcher with dual PhDs in **Economics** and **Engineering**, specializing in **data science, analytics, and policy evaluation**. Expertise in **statistical modeling, causal inference, geospatial analytics, and machine learning** for impact assessment and optimization across diverse domains, including **disaster resilience, energy policy, pricing analysis, and operations research**. Adept at **large-scale data processing, predictive modeling, automation, and decision-support frameworks** to drive actionable insights.

**PROFESSIONAL EXPERIENCE**

**Postdoctoral Researcher – Data Science & Analytics**  
*Princeton University, Princeton, NJ | Aug 2019– July 2022*

* Managed & analyzed **2TB+ spatiotemporal data**, leveraging **distributed computing** for large-scale processing.
* Developed **predictive models & clustering algorithms** to measure disaster-driven displacement patterns.
* Applied **causal inference & machine learning** to assess socioeconomic disparities in disaster response.
* Built **automated ETL pipelines & NLP models** for structured data standardization.
* Conducted **statistical analysis** for wildfire risk assessment and mobility disruption modeling.

**Doctoral Researcher – Economics**  
*University of New Mexico, Albuquerque, NM | Aug 2016– July 2019*

* Developed **dynamic models for policy simulation & resource optimization** in energy and environmental sectors.
* Applied **time-series forecasting & causal analysis** to evaluate regulatory impacts in oil & gas markets.
* Integrated **multisource economic & environmental data** to analyze land-use & transportation dynamics.

**Doctoral Researcher – Engineering**  
*University of New Mexico, Albuquerque, NM | Aug 2012–July 2017*

* Designed **optimization models & Monte Carlo simulations** for wildfire risk mitigation investment.
* Built **hedonic pricing models** using **spatial econometrics** to assess wildfire risk impacts on housing markets.
* Conducted **GIS-based hazard mapping** and property risk analysis to support policy decision-making.

**TECHNICAL SKILLS**

* **Programming & Data Tools:** Python, SQL, R, Tableau, ArcGIS
* **Analytics & Experimentation:** A/B Testing, Quasi-Experimental Design, Bayesian Analysis
* **Machine Learning & Optimization:** Predictive Modeling, Clustering, Time-Series Forecasting
* **Data Analysis & Strategy:** Business Insights, Statistical Inference, Data Storytelling

**EDUCATION**

PhD, **Economics** – University of New Mexico | 2019  
PhD, **Civil Engineering** – University of New Mexico | 2017