NADIA FLOREZ

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SUMMARY

With knowledge of data model schemes, robust data processing, statistics and visualization skills as well as expertise in econometric modeling and inference, I apply PostgresSQL, Python and R tools to infer insights from a wide range of data types, including GIS data. As a self-driven learner and a strong critical thinker, I look to employ predictive modeling techniques to assess key business and research questions.

EDUCATION

M.A. in Applied Economics
University of Colorado Denver — May 2016

B.A. in Economics, Applied Math minor
University of Colorado Boulder — May 2013

Relevant courses: Applied Linear Algebra, Statistics (2 grad sem), Econometrics (2 grad sem)

RELEVANT WORK EXPERIENCE

Research Fellow, Center for Transportation Research, UT Austin — July 2017 - Present

- Developed and implemented key workflows to amalgamate various data types for automated data ingestion, processing, visualization and analysis in transportation science:
  - Established (database) data model considering various data sources and types
  - Established workflows to assess data quality, characteristics and cleaning procedures
  - Established workflows for data processing, visualization and analysis
- Created Shiny application to access and visualize transit and traffic data from sensors and other sources
- Developed expertise with geospatial data processing and visualization with PostGIS, Python (Geopandas, Shapely, Leaflet Python implementation) and R (sp, Leaflet)
- Advanced project and self-managing skills to carry out integral project deliverables
- Quickly assimilated transportation domain-specific knowledge

PROJECTS

"The impact of same-sex marriage legalization on state suicide rates." — 2014 - 2015

- Developed and presented novel research employing econometric causal inference
- Developed expertise with longitudinal/panel data and causal analysis difference-in-difference (DiD) econometric model with linear time trends for causal inference
- Evaluated the effect of same-sex marriage state legalization on state suicide rates for young males
- Implemented econometric analyses with Python and R programming languages to:
  - Aggregate and merge data from valid news sources and public data
  - Tabulate descriptive summary statistics on predictors
  - Visualize data characteristics of key variable
  - Establish statistical methods comparable to proprietary software with open source tools
  - Showcase a negative and significant (plausibly causal) correlation between explanatory and outcome variables

LEADERSHIP

Advisory member, Think Dream Tank: nonprofit start-up promoting individual future-oriented decision-making and community engagement. — 2013 - 2015

- Established structure to founder's vision to execute clear deliverables:
  - Gained nonprofit status through the Rocky Mountain Peace Institute
  - Proposed 3 grants: Making All Voices Count (2014), and John Templeton Foundation (2015, 2016).
- Piloted virtual workshops on Amazon Mechanical Turk with 50 participants.
- Piloted physical workshops with a group of seven individuals with positive feedback
- Developed strong communication skills to succinctly share ideas