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   B.A. in Economics, Applied Math minor

University of Colorado Denver   May 2016   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:
  - 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

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   2013 - 2015
individual future-oriented decision-making and community engagement.

- 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

OTHER SKILLS

- Strong communicator with Spanish and English native proficiency