Nadia Florez

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Summary

I have implemented Python and R scripts to carry out statistical analysis, which includes data processing, summary statistics and visualization, econometric modeling, as well as inference. As a self-driven learner and a strong mathematical thinker, I quickly assimilate information to develop quality projects, produce reliable results and effectively communicate findings across various disciplines.

Education

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

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

Relevant courses: Intro to Quantum Mechanics, Mechanics I, Intro to DFQ, Linear Algebra, Applied Probability, Statistics (2 semesters), Probabilistic Modeling (Markov chains and Monte Carlo simulation).

Projects

Master's capstone: "The impact of same-sex marriage legalization on state suicide rates." 2014 - 2015

- Developed and presented novel research employing longitudinal data and a difference-in-difference (DiD) econometric model with linear time trends for causal inference.
- Evaluated the effect of same-sex marriage state legalization before the national ruling on state suicide rates for males 18 and younger between the years of 1999 - 2014.
- Implemented Python and R programming languages to:
  - Aggregate and merge data from valid news sources and CDC public data.
  - Tabulate min/max/mean/SD/N summary statistics on independent predictors.
  - Visualize distribution and trends over time of policy change and outcome variable.
  - Create DiD analysis functions and scripts to carry out comparable process to STATA.
  - Tabulate results showcasing a negative and significant (plausibly causal) correlation between legalization of same-sex marriage and outcome.

Giordano, J., Benedikter, R., **Florez, N**. "Neuroeconomics. An emerging field of theory and practice." *The European Business Review*. (2012). 2011 - 2012

- Developed introductory paper on neuroeconomics, a field synthesizing neuroscientific and economic principles to better understand human decision-making.
- Created a bio-psychosocial model of human decision-making, aiming to provide a comprehensive outline to the factors that influence human decisions (biological, psychological, social).

Leadership

Advisory member, Think Dream Tank: nonprofit start-up promoting individual future-oriented decision-making and community engagement through workshops. 2013 - 2017

- 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.

Volunteer, Amigos de las Americas 2007 - 2008

- Employed cross-cultural communication and awareness to manage 6 classrooms and lead 2 creative expression workshops per classroom, per week for 5 weeks.

Internship

Junior Scholar with the Center for Neurotechnology, Potomac Institute for Policy Studies. 2011

- Quickly assimilated information on unfamiliar topic to develop and present culminating research paper.