Nathaniel Price

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Education

2016 **Joint Ph.D. Mechanical Engineering** — University of Florida
Gainesville, Florida, US and Saint-Étienne, Rhône-Alps, France — École des Mines de Saint-Étienne

2014 **Graduate Certificate in Scientific Computing** — University of Florida
Gainesville, Florida, US

2012 **B.S. Mechanical Engineering** — University of Florida
Gainesville, Florida, US

Select Projects

Project 1: Web-based data analysis application — Nebraska Game and Parks Commission
Employer(s): University of Nebraska-Lincoln
Language(s): R, SQL
Skills: exploratory data analysis, interactive visualization, version control, UNIX shell, data wrangling

- Developed and deployed application for exploratory data analysis of SQL customer database
- Advanced data filters, interactive graphics, customize and export plots, download data summaries

Project 2: Buying behavior of Nebraska hunters and anglers — Nebraska Game and Parks Commission
Employer(s): University of Nebraska-Lincoln
Language(s): SQL, R
Skills: generalized linear models, maximum likelihood estimation, simulation-based model checking

- Developed novel statistical method for analyzing repeat-purchase data
- Applied method to predict purchasing behavior of 1.2 million anglers with individual-level granularity

Project 3: Optimal sounding rocket design under uncertainty — ONERA - The French Aerospace Lab
Employer(s): University of Florida, ONERA
Language(s): Matlab
Skills: optimization, machine learning (e.g., Gaussian process), Monte Carlo simulation

- Developed method to tradeoff between expected design performance and risk of future redesign while achieving target reliability
- Applied method to conceptual design of a sounding rocket to reduce gross lift off weight while achieving target altitude

Project 4: Effects of patient variability on safety of a medical implant — Biomet
Employer(s): University of Florida
Language(s): Python
Skills: numerical methods, finite element analysis

- Created model to predict sternum displacement given patient variability (e.g., bone strength) and implant design (e.g, screw length)
- Awarded Biomedical Engineering Society Design and Research Award and Knox T. Millsaps Outstanding Undergraduate Paper Award

Employment History

2016 - present Data Scientist, University of Nebraska-Lincoln, Lincoln, Nebraska, US
2014 - 2016 Ph.D. Student Researcher, ONERA - The French Aerospace Lab, Palaiseau, Île-de-France, France
2012 - 2016 Graduate Research Assistant, University of Florida, Gainesville, Florida, US
2011 - 2012 Undergraduate Research Assistant, University of Florida, Gainesville, Florida, US
2010 - 2011 Launch Engineer Intern, SpaceX, Cape Canveral, Florida, US
2009 - 2010 Undergraduate Research Assistant, University of Florida, Gainesville, Florida, US
2005 - 2010 Engineer Intern, E&S Consulting, Inc., St. Augustine, Florida, US