

Nathaniel Price

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Education

2016	Joint Ph.D. Mechanical Engineering Gainesville, Florida, US and Saint-Étienne, Rhône-Alps, France	University of Florida École des Mines de Saint-Étienne
2014	Graduate Certificate in Scientific Computing Gainesville, Florida, US	University of Florida
2014	M.S. Mechanical Engineering Gainesville, Florida, US	University of Florida
2012	B.S. Mechanical Engineering Gainesville, Florida, US	University of Florida

Select Projects

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

Employers

2016 - present	Post-doctoral Research Associate, 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