






# Nathaniel Price

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## Education

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