

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

Experience

Sep 2016 - present	Data Scientist Lincoln, Nebraska, US	University of Nebraska-Lincoln
	<ul style="list-style-type: none">• Developed new method to predict customer retention and purchase probabilities with individual level granularity (applied to 1.2 million purchase records)• Designed, developed, and deployed web-based data analysis application in R for exploratory data analysis of SQL customer database	
Oct 2014 - Mar 2016	Ph.D. Student Researcher Palaiseau, Île-de-France, France	ONERA - The French Aerospace Lab
	<ul style="list-style-type: none">• Developed a novel method for optimal design of sounding rocket under uncertainty that incorporated risk of future redesign into design optimization	
Aug 2012 - Jul 2016	Graduate Research Assistant Gainesville, Florida, US	University of Florida
	<ul style="list-style-type: none">• Integrated machine learning (e.g., Gaussian process) and optimization to design engineering systems considering uncertainty in future decision making process• Collaboratively developed optimization-based solution to The NASA Langley Multidisciplinary Uncertainty Quantification Challenge (2014)	
Sep 2011 - Aug 2012	Undergraduate Research Assistant Gainesville, Florida, US	University of Florida
	<ul style="list-style-type: none">• Analyzed effects of patient variability and design variations on safety of Biomet rigid sternal fixation device (Python, FEA)• Awarded Biomedical Engineering Society (BMES) Design and Research Award and Knox T. Millsaps Outstanding Undergraduate Paper Award	
Aug 2010 - Jan 2011	Launch Engineer Intern Cape Canveral, Florida, US	SpaceX
	<ul style="list-style-type: none">• Performed maintenance of launch vehicle ground systems• Team member for rollout and launch of Falcon 9 and Dragon spacecraft	

Software

1. Price, N, C Chizinski, and J Burnett (n.d.). *radsets - An R Package for creating Radial Sets diagrams*. <https://natbprice.github.io/radsets/>.
2. Price, N and J Burnett (n.d.). *tvdiff - An R Package for performing total variation regularized differentiation*. <https://github.com/natbprice/tvdiff>.

Data Science Skills

Communication: presentations (technical and non-technical), dashboard design, data analysis reports, scientific publications, data visualization

Programming Languages: R, Python, SQL, Matlab, C++

Software Development: version control, automated testing, continuous integration

Numerical Methods: optimization (stochastic, genetic, multi-start), numerical solution of differential equations

Statistics: machine learning, data analysis, generalized linear regression, cluster analysis, factor analysis, principal components analysis, cross validation, model selection, generalized additive models, data analytics, Monte Carlo simulation