






# 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

## Experience

2016 - present	<b>Data Scientist / Post-doctoral Research Associate</b> Lincoln, Nebraska, US	University of Nebraska-Lincoln
	<ul style="list-style-type: none"><li>• Developed new method to predict customer retention and purchase probabilities with individual level granularity (applied to 1.2 million purchase records)</li><li>• Designed, developed, and deployed web-based data analysis application in R for exploratory data analysis of SQL customer database</li></ul>	
2014 - 2016	<b>Ph.D. Student Researcher</b> Palaiseau, Île-de-France, France	ONERA - The French Aerospace Lab
	<ul style="list-style-type: none"><li>• Developed a novel method for optimal design of sounding rocket under uncertainty that incorporated risk of future redesign into design optimization</li></ul>	
2012 - 2016	<b>Graduate Research Assistant</b> Gainesville, Florida, US	University of Florida
	<ul style="list-style-type: none"><li>• Integrated machine learning (e.g., Gaussian process) and optimization to design engineering systems considering uncertainty in future decision making process</li><li>• Collaboratively developed optimization-based solution to The NASA Langley Multidisciplinary Uncertainty Quantification Challenge (2014)</li></ul>	

## Awards

2013	Knox T. Millsaps Outstanding Undergraduate Paper Award
2012	Biomedical Engineering Society (BMES) Design and Research Award
2012	University of Florida Graduate School Fellowship Award
2009	American Institute of Aeronautics & Astronautics (AIAA) Foundation Junior Scholarship

## Select Publications

1. Price, N, V Jones, L Powell, J Fontaine, K Pope, and C Chizinski (2019). Application of Population Models to Repeat-Purchase Data. *Marketing Science*. Under Review.
2. Balesdent, M, L Brevault, NB Price, S Defoort, R Le Riche, NH Kim, RT Haftka, and N Bérend (2016). "Advanced Space Vehicle Design Taking into Account Multidisciplinary Couplings and Mixed Epistemic/Aleatory Uncertainties". In: *Space Engineering: Modeling and Optimization with Case Studies*. Ed. by G Fasano and JD Pintér. Cham: Springer International Publishing, pp.1-48. [https://doi.org/10.1007/978-3-319-41508-6\\_1](https://doi.org/10.1007/978-3-319-41508-6_1).

## Software

1. Price, N, C Chizinski, and J Burnett (Mar. 2019). *radsets - An R Package for creating Radial Sets diagrams*. (lifecycle: experimental). <https://natbprice.github.io/radsets/>.
2. Price, N and J Burnett (Mar. 2019). *tvdiff - An R Package for performing total variation regularized differentiation*. (lifecycle: experimental). <https://github.com/natbprice/tvdiff>.

## Previous Experience

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