






Nathaniel Price

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Education

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| 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

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|----------------|---|----------------------------------|
| 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 | |
| 2014 - 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 | |
| 2012 - 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) | |

Awards

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| 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.

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

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| 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 |