

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

May 2020 - present	Senior Data Scientist Golden, Colorado, US <ul style="list-style-type: none">Developed cloud infrastructure and data science processes for scalable analysis of billions of records of utility smart meter dataResearched and developed statistical methods for energy disaggregation	ICF
Oct 2019 - May 2020	Data Scientist Golden, Colorado, US	ICF
Sep 2016 - Oct 2019	Data Scientist Lincoln, Nebraska, US <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	University of Nebraska-Lincoln
Oct 2014 - Mar 2016	Ph.D. Student Researcher Palaiseau, Île-de-France, France <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	ONERA - The French Aerospace Lab
Aug 2012 - Jul 2016	Graduate Research Assistant Gainesville, Florida, US <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 processCollaboratively developed optimization-based solution to The NASA Langley Multidisciplinary Uncertainty Quantification Challenge (2014)	University of Florida
Sep 2011 - Aug 2012	Undergraduate Research Assistant Gainesville, Florida, US <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	University of Florida
Aug 2010 - Jan 2011	Launch Engineer Intern Cape Canveral, Florida, US <ul style="list-style-type: none">Performed maintenance of launch vehicle ground systemsTeam member for rollout and launch of Falcon 9 and Dragon spacecraft	SpaceX

Select Publications

- 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.
- Chaudhuri, A, G Waycaster, N Price, T Matsumura, and RT Haftka (Jan. 2015). NASA Uncertainty Quantification Challenge: An Optimization-Based Methodology and Validation. *Journal of Aerospace Information Systems* **12**(1), 10-34.