Nathaniel Price

335 S. 46th St. Lincon, NE 68510

↑ natbprice
DayduhScientist
+1 904 315 2486
natbprice@gmail.com in natbprice

| Education | | |
|----------------|---|--|
| 2014 - 2016 | Ph.D. Mechanical Engineering Saint-Étienne, Rhône-Alps, France | École des Mines de Saint-Étienne |
| 2012 - 2016 | Ph.D. Mechanical Engineering Gainesville, Florida, US | University of Florida |
| 2012 - 2014 | Graduate Certificate in Scientific Computing Gainesville, Florida, US | University of Florida |
| 2012 - 2014 | M.S. Mechanical Engineering Gainesville, Florida, US | University of Florida |
| 2010 - 2012 | B.S. Mechanical Engineering Gainesville, Florida, US | University of Florida |
| Experience | | |
| 2016 - present | Post-doctoral Research Associate Lincoln, Nebraska, US Data scientist for human dimensions research group Mentor graduate students and train students in statistical ar Developed exploratory data analysis web application in R for | |
| 2012 - 2016 | customer database Graduate Research Assistant | University of Florida |
| 2012 - 2010 | Gainesville, Florida, US Integrated machine learning (e.g., Gaussian process), optim tainty propagation to design engineering systems considering making process Collaboratively developed optimization-based method for N Quantification Challenge | nization, and uncer- ng future decision |
| 2014 - 2016 | Ph.D. Student Researcher | ONERA |
| | Palaiseau, Île-de-France, France Developed and applied a novel method for optimal design under uncertainty Co-authored book chapter on space vehicle design under un | |
| 2011 - 2012 | Undergraduate Research Assistant Gainesville, Florida, US Developed Python code for parameterized finite element m sternal fixation | University of Florida |
| | Analyzed effects of patient variability and plate designs on stability of sternal fixation | |
| 2010 2011 | Presented award winning research at top conferences | Smaay |
| 2010 - 2011 | Launch Engineer Intern Cape Canveral, Florida, US Performed maintenance of launch vehicle ground systems Assisted in rollout and launch of Falcon 9 and Dragon space | SpaceX craft |
| 2005 - 2010 | Engineer Intern St. Augustine, Florida, US Assisted with failure analysis investigations (inspections, mareports, research) | E&S Consulting, Inc. |
| 2009 - 2010 | Undergraduate Research Assistant Gainesville, Florida, US Developed Matlab code for compliance correction of comp strength test data Machined magnesium tensile strength test specimens | University of Florida ression / tensile |

Publications

Journal Articles and Book Chapters

Resume: Nathaniel Price 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.

- Price, NB, NH Kim, RT Haftka, M Balesdent, S Defoort, and R Le Riche (Sept. 2016). Deciding Degree of Conservativeness in Initial Design Considering Risk of Future Redesign. *Journal of Mechanical Design* 138(11), 111409–111409– 13.
- 3. 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.

Conference Papers

- 1. Price, NB, M Balesdent, S Defoort, R Le Riche, NH Kim, and RT Haftka (Jan. 2016). Simulating Future Test and Redesign Considering Epistemic Model Uncertainty. In: 18th AIAA Non-Deterministic Approaches Conference. AIAA SciTech Forum. American Institute of Aeronautics and Astronautics. https://doi.org/10.2514/6.2016-0950.
- 2. Chaudhuri, A, G Waycaster, T Matsumura, NB Price, and RT Haftka (Jan. 2014). Framework for Quantification and Risk Analysis for Layered Uncertainty using Optimization: NASA UQ Challenge. In: 16th AIAA Non-Deterministic Approaches Conference. AIAA SciTech Forum. American Institute of Aeronautics and Astronautics. https://doi.org/10. 2514/6.2014-1498.
- 3. Price, NB, T Matsumura, RT Haftka, and NH Kim (Jan. 2014). Deciding How Conservative A Designer Should Be: Simulating Future Tests and Redesign. In: 16th AIAA Non-Deterministic Approaches Conference. AIAA SciTech Forum. American Institute of Aeronautics and Astronautics. https://doi.org/10.2514/6.2014-1010.
- 4. Berry, AJ, ES George, and NB Price (Dec. 2007). Fire Damage Remediation of a Steel Box Aerial Guideway Girder on Miami-Dade Transit's Metrorail System. In: New Orleans, Louisiana: American Institute of Steel Construction.

Oral Presentations

- 1. Hinrichs, M, N Price, C Chizinski, and M Vritiska (Jan. 2018). *Nebraska Waterfowl Hunters: Where do they go?* Milwaukee, Wisconsin.
- 2. Price, N, C Chizinski, J Fontaine, and K Pope (Jan. 2018). Retention of Youth Deer Hunters in Nebraska. Milwaukee, Wisconsin.
- 3. Price, N, C Chizinski, M Hinrichs, K Pope, and J Fontaine (Sept. 2018). *Transitions among sportsperson permit holders and the influence of cross-buying behavior*. Goslar, Germany.
- 4. Grams, A, N Price, C Chizinski, J Fontaine, and K Pope (Feb. 2017). Exploring Linkages between Hunting and Fishing Permit Sales. Lincoln, Nebraska.
- 5. Grams, A, N Price, C Chizinski, J Fontaine, and K Pope (Sept. 2017). *Permit Associations of Nebraska Sportspersons*. Estes Park, Colorado.

Conference Posters

- 1. Price, NB, NH Kim, B Wilcox, and B Hatcher (Aug. 2012). Design Study on Stability & Safety of Median Sternotomy Fixation. In: vol. 79. Gainesville, Florida: American Society of Biomechanics, pp.67. http://www.asbweb.org/conferences/2012/abstracts/95.pdf.
- 2. Price, NB, NH Kim, B Wilcox, and B Hatcher (Oct. 2012). The Effects of Cortical Thickness, Bone Strength, & Screw Length on Rigid Sternal Fixation Stability. In: Atlanta, Georgia: Biomedical Engineering Society.

Software (Github: natbprice)

- 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.