

SR. MACHINE LEARNING MODELER

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Experience

Data Science & Statistics

- Sr. Machine Learning Modeler, HSB (Munich Re Group), February 2018 Present
 - Lead junior data science talent on technical projects and manage interns
 - Develop core pricing models and methods (Transactional EB, EPL, BII HSP/SL)
 - Perform IoT sensor data analysis and related insurance product pricing/development, including developing the pricing strategy for HSB's first monetized sensor product (freeze loss warranty)
 - Established an ongoing research agreement between HSB and UConn's departments of Statistics and Computer Science focusing on IoT anomaly detection methods
 - Coordinate and deliver data science education at HSB (time series short courses)
 - Represent HSB and Munich Re Group by presenting at academic and internal analytics conferences
- Engineering Statistician, Pratt & Whitney (UTC), April 2016 February 2018
 - Performed engineering analysis with statistical/probabilistic models and provided predictive modeling and optimization support to P&W Aftermarket and Finance departments
- Adjunct Professor of Biostatistics, University of Connecticut, January 2017 May 2017
 - Taught "Introduction to Biostatistics for Health Professionals (AH 3005/5005)" to a class of approximately 100 undergraduate and graduate students in statistics, mathematics, and allied health sciences
- Associate Data Scientist, The Hartford Insurance Group, May 2015 March 2016
 - Led efforts to build customer retention, issue rate, and customer lifetime value models
- Graduate Assistant, University of Connecticut, August 2014 May 2015
 - Fully funded GA researching statistical/machine learning methods to predict
- Actuarial & Data Science Internships, The Hartford Insurance Group, May 2014 August 2014, December 2014 - January 2015
 - Completed two internships in both actuarial (risk and profitability) and data science (personal lines auto) positions

Defense Contracting

- Various Roles, General Dynamics Electric Boat, 2008 2011
 - Worked in piping design, program planning and process engineering
 - Certified Lean Six Sigma Black Belt

Education

- MS Mathematics, University of Connecticut, 2015
 - Thesis: The Informative g-Prior vs. Common Reference Priors for Binomial Regression With an Application to Hurricane Electrical Utility Asset Damage Prediction
 - Awards: Google Student Poster Award (In honor of the best posters presented in the fields of Statistics and Probability at the 29th New England Statistical Symposium)
- BA Mathematics/Statistics, University of Connecticut, 2014
- BA Political Science, University of Connecticut, 2007

Volunteering & Outreach

- Vice President, New England Statistical Society (NESS), June 2020-Present
 - Vice President in charge of the NESS Education Committee
 - Reorganized the committee into four subcommittees focusing on short course development, youth outreach, scholarship funds and ethics in data science education
 - Partnered with the NextGen Committee to establish NESS' new consulting service
- Council Member, New England Statistical Society (NESS), May 2017-June 2020
 - Served on the education committee coordinating the society's educational activities and outreach

Technology_

- Programming Languages
 - R, Stan, Scala, Python, SQL
- Tech
 - Linux, Git, Spark, ŁTFX, Markdown, Azure Services

Publications

- Modern Methods for Insurance IBNR Reserve Estimation, International Society for Business and Industrial Statistics (ISBIS) Blog Corner, 2019
- Estimating Loss Reserves Using Hierarchical Bayesian Gaussian Process Regression with Input Warping, Insurance: Mathematics and Economics, 2018 (link to pre-print version)
- **Predictive Modeling in Long-Term Care Insurance**, North American Actuarial Journal, 2016 (Undergraduate thesis)

Languages_

- English
- Spanish (professional working proficiency)