Brian Hartman, PhD ASA

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Academic Experience

Associate Professor of Statistics, Actuarial Director, Brigham Young University   July 2015-Present

Assistant Professor of Actuarial Science, University of Connecticut   August 2011-June 2015

Post-doctoral Fellow in Actuarial Science, University of Waterloo   August 2010-August 2011

- Leads teams in statistical, financial, and actuarial research, 30 papers available on website, example projects include:
  - Finance
    - Correlated asset simulation and economic scenario generation
    - Correlation structure specification and estimation
    - Model selection and averaging in asset simulation
    - Impact of model misspecification and parameter uncertainty
  - Healthcare
    - High-cost member prediction
    - Chronic kidney disease cost forecasting
    - Optimized wellness interventions and member cost predictions
  - Methodology
    - Generative adversarial networks to deidentify data
    - Business problem focused model selection
- Teaches courses in statistics and actuarial science
- Advises students in career and academic decisions
- Builds community among faculty and students through sports and events

Industry Experience

Statistician, Milliman Health Insurance Consulting   May 2021-Present

- Models uncertainty in ACO expenditures and cost savings
- Measures wellness program efficacy
- Works in R, Databricks, and Spark

Member of Board of Directors, Bear River Mutual Insurance   November 2020-Present

Advises leaders on strategic decisions

Personal Property Strategic Research, Liberty Mutual Insurance   Summer 2014

Built pricing models and monitored rollout performance

Applied Research, Advanced Analytics, The Hartford Insurance Group   Summer 2013

Improved small commercial pricing and reserving models

Actuarial Intern, Retirement, Mercer HR Consulting   Summer 2007

Performed pension valuations and benefit calculations

Education

PhD Statistics, Texas A&M University   August 2010

Associate, Society of Actuaries   August 2008

BS Actuarial Science, Minor Economics, Brigham Young University   August 2006