

## SPENCER CARTER

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### SKILLS

- Analytical: EDA, Statistical/Machine Learning, Deep Learning, Regularization, Resampling, Stacking, Visualization, and Model Validation
- Programming: Python, SAS, SQL, R; Linux savvy
- NLP: N-Gram, Topic Modeling, LSI, Word Embeddings, and LSTM models for text
- ML Frameworks: Keras, TensorFlow, Theano
- Data Environments: Warehouse and Lake

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### WORK EXPERIENCE

#### **The Travelers Companies Inc.**

Hartford, CT

*Manager of Analytics & Research, Claim Enterprise Medical Research*

April 2016-Present

- Leading modeling projects, while managing and developing a statistician and actuarial student
- Successfully pitched and currently building project using Representation Learning and LSTM/GRUs to identify deviating medical treatment (Python, Keras)
- Led model build for new nation-wide Worker's Comp. initiative to stratify claim severity and assign alternative workflows, using GBM and RF (Python, SAS and SQL)
- Championed the increased use of text mining at Travelers by teaching others, and improving existing models using N-Grams, Topic Modeling with LDA, Word2Vec, and LSTMs using claims notes (Python, R, TensorFlow, Keras)

*Associate of Analytics & Research, Claim Enterprise Medical Research*

April 2015-April 2016

- Led modeling for General Liability initiative, pairing claims with appropriately experienced claim handlers to improve resource allocation, using GLM and GBM (SAS, R and SQL)
- Completed 3 month rotation in Worker's Comp. business team. Gained insight into their needs, and brought new statistical rigor and ideas to their work

*Sr. Consultant of Analytics & Research, Personal Insurance Claim Analytics*

July 2014-April 2015

*Consultant of Analytics & Research, Personal Insurance Claim Analytics*

June 2013-July 2014

- Built models to quantify the impact of new claim initiatives on cost of Personal Insurance claims. (SAS, R and SQL)

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### EDUCATION

#### **University of Alabama, Manderson Graduate School of Business**

Tuscaloosa, AL

Master of Science in Applied Statistics

Graduated August 2013

GPA: 4.0/4.0

- Most Outstanding Masters Student in Applied Statistics 2013

#### **University of Alabama**

Tuscaloosa, AL

Bachelor of Science in Mathematics and Philosophy

Graduated May 2012

- Thesis: "What about These New Ability Hypotheses?"
- Martin and Marie ten Hoor Prize for Excellence in Philosophy essay competition, 2nd & 3rd place 2012 & 2011

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### ADDITIONAL

- InsurTech Hartford Hackathon Weekend 2017, 2<sup>nd</sup> place team
- Developed and taught Travelers internal classes on GLMs, Text Mining, SAS, and Python
- Travelers Actuarial and Analytics Leadership Development Program Graduate
- Math and Reading tutor for Hartford inner-city students, grades 4 & 5