# Hayden D. Hampton

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## EDUCATION

**University of Central Florida** — Orlando, FL
Ph.D. Student in Big Data Analytics — 2019–Current

**University of Central Florida** — Orlando, FL
Bachelors of Science, Double Major in Statistics and Actuarial Science — 2016–2019

- Honors: *cum laude* (GPA: 3.80/4.00)

## TEACHING EXPERIENCE

**University of Central Florida** — Orlando, FL
Graduate Teaching Associate — May 2019 - Current

- Instructor, Honors Statistical Methods I, STA 2023H, Spring 2021
- Guest Lecturer, Categorical Data Analysis, STA 4504, Spring 2021
- Instructor, Sample Survey Methods, STA 4222, Fall 2020
- Guest Lecturer, Life Contingencies I, STA 4130, Fall 2020

Graduate Teaching Assistant

- Grader, Categorical Data Analysis, STA 4504, Spring 2020
- Grader, Applied Time Series Analysis, STA 4852, Spring 2020
- Teaching Assistant, Principles of Statistics, STA 2014, Fall 2019

Academic Services for Student Athletes (ASSA) Tutor

- Tutored student athletes in calculus, statistics, and computer programming, Summer 2019

## WORK EXPERIENCE

**Infotech Consulting** — Gainesville, FL
Econometric and Statistical Analysis Intern — May 2020 - August 2020

- Supported full-time analysts and experts who provide complex statistical and econometric litigation support for cases in antitrust, class action, breach of contract, and healthcare fraud.
- Focused on data collection, data preprocessing, data visualization, researching case-specific topics and/or quality control.
- Leveraged the SAS Macro Facility for automation and standardization of repetitive and complex tasks.

**Hannover Re** — Orlando, FL
Actuarial Temp — August 2018 - November 2018

- Designed dashboard which studies growth, sales, and trends of industry leaders.
- Developed VBA macros to maximize efficiency within tool.

**Hannover Re**                                                  Orlando, FL
Actuarial Intern                                          May 2018 - August 2018
- – Selected for competitive internship; hired for continued employment following completion of internship.
- – Developed enhanced modeling capabilities to analyze new annuity products coming to market.
- – Analyzed complex data sets, brought in model assumptions, and tested/validated models for stop loss coverage project in the hundreds of millions.
- – Revised and updated comprehensive reinsurance presentations for future interns.

**Toyota Motor Corporation**                          Royal Palm Beach, Florida
ASE Certified Automotive Technician                       April 2011 - July 2013
- – Conducted automotive inspections, diagnostics, and repairs on hybrid and conventionally powered vehicles.
- – Selected for competitive Toyota specialized skills training program.
- – Achieved 5 out of 8 ASE certifications toward master certification level.

## TECHNICAL SKILLS AND PROJECTS

Proficient with Python, R, SAS, SQL, C, VBA, LaTeX, and MS Office.

See full list of projects on github.com/haydendhampton

- Bank Marketing Campaign Analysis in R (2021)
  - – Implemented machine learning techniques to predict whether clients of a bank will initiate a term deposit based on a direct marketing campaign.

- Automation of Life Insurance Underwriting in R (2020)
  - – Developed a multi-class predictive model for classifying client risk to expedite the insurance quoting process.

- Analysis of Political Tweets in R (2019)
  - – Extracted social media text from two competing politicians and built a logistic regression model to predict the politician based on the tweets' word frequency.

- Time Series Analysis of U.S. Housing Market in R (2018)
  - – Analyzed publicly available real estate data to develop an autoregressive integrated moving average (ARIMA) model to explain any recurring patterns and anomalies present in monthly data of new, single family homes sold in the United States between 1990 to 2005.

- Mortgage Loan Predictive Model in SAS (2017)
  - – Analyzed mortgage loan data in Analytics Vidhya competition. Utilized logistic regression to build a model that predicted whether an individual will be accepted or rejected for a home loan based off various factors.

## VOLUNTEERING

- Participant on Justifi Service Trip To Thailand on Human Trafficking              July 2018
  *Worked with organizations in Thailand dedicated to combating and preventing human trafficking.*

- Group Leader on Justifi Service Trip To Nicaragua                                July 2015
  *Led 15 participants on a ten-day trip through Nicaragua focused on social and ecological issues threatening local communities and the nation.*

- Volunteer for Ethiopian Absorption Center in Israel                             June 2008
  *In cooperation with the Ministry of Aliyah and Integration, I worked with Ethiopian immigrants and helped them integrate into Israeli society.*

## Scholarships and Awards

- Recipient of the Theodore R. and Vivian M. Johnson Scholarship — December 2019
- Recipient of the University of Central Florida's Scholars Award — 2018-2019
- Recipient of AFC Chapter Scholarship — January 2013

## Extracurricular Activities

- Member of Quantitative Modeling and Algorithmic Trading Team at UCF — 2019-2020
  - Under the guidance of Dr. Ramanlal, we built a sentiment analysis classifier to determine the impact a news article or tweet had on the financial markets.
- Member of Actuarial Science Club at the University of Central Florida — 2015-2020
  - Vice President, 2018-2019
  - Competitor at Drake Symposium held at Drake University in Iowa, 2018
- Member of Alpha Epsilon Pi Fraternity at the University of Central Florida — 2015-2017
  - Judicial Chair Member, 2015-2017
- Toastmasters — 2017-2020
  - Member of Toastmasters Oviedo Club #3179, 2019-2020
  - Member of Toastmasters International Club #8503, 2017-2018
- Casualty Actuarial Society Student Program — November 2016
- Member of Palm Beach State College's Math Team — 2014-2015
  - Competing member at the University of North Florida's statewide math competition, 2014
- Participant in Palm Beach State College's Math and Science Summer Institute Program — Summer 2014