Linh Nguyen

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EDUCATION

Present	**Vanderbilt University** *M.S. in Data Science*	**Nashville, TN**
11/2018	**Georgia Institute of Technology** *Certificate in Data Analytics and Visualizations*	**Atlanta, GA**
05/2017	**University of Georgia** *B.S in Health Promotion and Behavior*	**Athens, GA**

PROJECTS

VALIDATION OF BILLING CLAIMS DATA – *Published*
- Collaborated with a PhD Candidate to conduct exploratory data analysis and data wrangling of 8,500 ICD-9 and ICD-10 billing records from 2008-2017 for Davidson County, TN, using Python.
- Developed random forest classification model (scikit-learn) to accurately identify 89% of cervical precancer events using billing records and validated the classification model results using biopsy data.

CATASTROPHIC LOSS PREDICTION – *Industry partner with Vanderbilt*
- Combined industry partner historic data with publicly available weather data in order to build a classification model to predict catastrophic losses in specific at-risk region for sparse severe weather events between 2008-2018.
- Communicated to the company the financial impacts of severe weather events for a specific region utilizing exploratory data analysis and predictive modeling in Python (scikit-learn).

LATIN AMERICAN SURVEY INTERVIEW ADHERENCE PROJECT
- Worked with Latin American stakeholders to identify abnormal survey behavior for 60 interviewers and identified 10% of interviewers who exhibited abnormal survey behaviors and were retrained to adhere to survey protocol.
- Created a KNN clustering model in Python utilizing historic survey, geospatial, and time series data to identify interviewers presenting abnormal survey behavior.

EXPERIENCE

Summer 2020	**Tractor Supply Company** **Database and Marketing Analytics Intern** **Nashville, TN**

- Engaged with customers and stakeholders to gather data requirements, set project timelines, and develop deliverables for 3 majors projects.
- Converted 5 marketing performance metric Tableau Desktop dashboards into 7 mobile-friendly dashboards that increased the marketing department's business analyst's accessibility to key performance metrics.
- Proof of concept tested a data refresh process utilizing Tableau Prep for a mobile Tableau dashboard to monitor 1,800 store's status.
- Discovered customer purchasing trends during COVID19 by conducting a market basket analysis using an *a priori* algorithm in R to for 3 million customer transaction queried using SnowFlake.

08/2017 – 09/2018	**Centers for Disease Control and Prevention** **ORISE Fellow for Research and Analytics** **Atlanta, GA**

- Collaborated and engaged with stakeholders and subject matter experts to develop a manuscript on reducing blood sample hemolysis in emergency departments across the United States.
- Presented background research on a meta-analysis for reducing blood sample hemolysis in emergency departments at the Laboratory Medicine's Best Practice Workgroup meeting.
- Conducted and lead a meta-analysis on the reduction of hemolysis in emergency departments.

06/2017 – 08/2017	**Centers for Disease Control and Prevention** **Guest Researcher** **Atlanta, GA**

- Wrangled and visualized historical data for 170,000 laboratories in the US for 60 analytes between 2000-2017 using Centers for Medicare and Medicaid data to monitor laboratory testing performance trends.