

# Kenneth Lee

<https://kenneth-lee-ch.github.io/>

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## EDUCATION

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- **University of California, Davis** Davis, CA  
*Master of Science in Statistics* *Sep. 2019 - Jun. 2021*
- **Brigham Young University—Hawaii** Laie, HI  
*Bachelor of Science in Mathematics and Computer Science; GPA: 4.00* *Sep. 2014 - Jun. 2018*
  - **Thesis:** *An Evaluation of Blind Reconstruction Methods of the Dynamical Structure Functions*
  - **Relevant Coursework:** Machine Learning, Algorithms and Complexity, Multivariate Statistics, Business Analytics and Big Data, Adv. Database Topics, Discrete Math I, II

## EXPERIENCE

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- **Brigham Young University—Hawaii** Laie, HI  
*Research Analyst Intern, Institutional Research* *Aug 2018 - Present*
  - **Tableau:** Tableau is a business intelligence tool to visualize data from various data sources, ranging from cloud databases to files. Organized a site on Tableau Server, built visualizations with row-level security using Tableau Desktop, and shared them across departments of the school on the site.
  - **Oracle SQL developer:** This is an integrated development environment for working with SQL in Oracle databases. Expedited creating new data tables to provide live visualizations via Tableau for institutional research projects.
- **Brigham Young University** Provo, UT  
*Research Assistant Supervisor, Institutional Research* *Sep. 2017 - Jun. 2018*
  - **Data Warehousing:** Spearheaded a change in the existing ETL workflow from downloading files on an HTML interface of Oracle PeopleSoft to directly connecting Tableau with data sources such as Qualtrics and Oracle databases for reporting.
  - **R:** R is a programming language and provides a free statistical computing environment. Initiated to apply factor analysis to reduce the dimensionality of the graduating student surveys. Experienced in exploring and cleaning data via *ggplot2*, *dplyr*, *stringr*, and *reshape2*.
- **Brigham Young University** Provo, UT  
*Researcher, Information and Decision Algorithms Laboratories* *Jun. 2017 - Sep. 2017*
  - **Data Collection:** Retrieved streaming messages from Twitter by using *tweepy*, a Python wrapper on the Twitter API, and stored the data in MongoDB, a NoSQL database. The entire process is implemented on AWS EC2.
  - **Natural Language Processing:** Processed tweets collected from Twitter by using *numpy*, *pandas*, *gensim*, and *word2vec* in Python to convert tweets into topics and the corresponding numeric signals.
  - **Jupyter Notebook:** An open-source web application to share documents that contain codes, visualizations, and narrative text. Presented write-ups with Python codes in the topic of reconstructing social networks.

## PROJECTS

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- **Patient Inflow Prediction:** Employed quantile regression to predict patient inflow at Pali Momi Hospital's Emergency Room. Provided recommendations for how to optimize scheduling for their ERs doctors and mid-level providers.
- **Object Detection:** Took advantages of the Tensortflow library in Python to apply Faster-RCNN to count various faces of irregularly shaped dice such as square prism and triangular tetrahedron for experimenting a probability projection theory.

## CERTIFICATIONS

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- **Tableau Desktop Specialist**, Tableau Software
- **Machine Learning, Stanford University**, Coursera

## PROGRAMMING SKILLS

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- **Languages:** : Python, R, SQL, C++, C, Java
- **Frameworks:** : Tensorflow, Keras, Theano, Scikit-learn
- **Others:** : MongoDB, AWS EC2, AWS DynamoDB, AWS S3