

Kenneth Lee

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

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EDUCATION

- **University of California, Davis** Davis, CA
Master of Science in Statistics (Data Science Track) Sep. 2019 - Jun. 2021
 - **Relevant Coursework:** Statistical Machine Learning, Big Data & High Performance Statistical Computing, Design Experiments, Data & Web Technologies for Data Analysis, Probability
- **Brigham Young University—Hawaii** Laie, HI
Bachelor of Science in Mathematics, Computer Science; GPA: 4.00/4.00 Sep. 2014 - Jun. 2018
 - **Relevant Coursework:** Artificial Intelligence, Algorithms and Complexity, Multivariate Statistics, Object-oriented Programming, Business Analytics, Advanced Database Topics

WORK EXPERIENCE

- **Dell EMC** Hong Kong
Associate Consultant Intern Jul 2019 - Sep 2019
 - **System Testing:** Designed and implemented test cases for user authentication using MS SQL Server for the human resources manpower information system of Hong Kong Vocational Training Council which has 1000+ staff.
- **Brigham Young University—Hawaii** Laie, HI
Research Analyst Intern, Institutional Research Aug 2018 - Jun 2019
 - **Tableau:** Organized a site on Tableau Server, built visualizations with row-level security using Tableau Desktop to allow 100+ faculty members to view their course evaluation feedbacks in real-time.
 - **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.
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:** Initiated to apply factor analysis to reduce the dimensionality of the graduating student surveys. Experienced in exploring and cleaning GB+ institutional 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.

PROJECT

- **Predict Patient Inflow:** Employed quantile regression to predict patient inflow at Pali Momi Hospital's Emergency Room. Provided recommendations for how to optimize scheduling for their ER's doctors and mid-level providers.
- **Object Detection:** Applied Faster-RCNN ResNets to count various faces of irregularly shaped dice such as square prism and triangular tetrahedron for experimenting a probability projection theory.

CERTIFICATION

- **Tableau Desktop Specialist**, Tableau Software
- **Machine Learning**, Stanford University, Coursera
- **Deep Learning Specialization**, deeplearning.ai, Coursera

PROGRAMMING SKILLS

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