

# Kenneth Lee

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

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## WORK EXPERIENCE

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- **University of California, Davis** Davis, CA  
*Teaching Assistant* Sep 2019 - May 2021
  - **Love presenting ideas:** Held discussion sections and labs for 40+ MBA students in topics of machine learning, intermediate statistics, web scraping and SQL, and business analytics.
- **Newday Impact Investing** San Francisco, CA  
*Investment Analyst Intern* Sep. 2020 - May. 2021
  - **Classification:** Automated 25% of the portfolio construction process by labelling company listings with historic data that have 1:16 imbalanced class distribution and over 50% missing values using ensemble learning to achieve 0.7 F1-score.*Data Analytics Intern* Jun 2020 - Sep 2020
  - **PCA application:** Built a thematic portfolio with principal component analysis using data from S&P 500 in terms of racial justice impact and financial return.
- **Carnegie Mellon University** Pittsburgh, PA  
*Researcher, Delphi Research Group* Sep 2020 - Feb 2021
  - **Causal modeling:** Studied the causal effect of government interventions on mobility with case count signals as confounders in the US using Delphi EpiData API. [[Link](#)]
- **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* Jul 2018 - Jun 2019
  - **Tableau:** Organized a site on Tableau Server and built visualizations with row-level security using Tableau Desktop to allow 100+ faculty members to view their course evaluation feedbacks in real-time.
  - **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.
- **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. [[Link](#)]

## EDUCATION

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- **Purdue University** West Lafayette, IN  
*Doctor of Philosophy in Electrical and Computer Engineering* Aug. 2021 - May 2025
  - **Relevant Coursework:** Probabilistic causal inference, information theory
- **University of California, Davis** Davis, CA  
*Master of Science in Statistics* Sep. 2019 - Jun. 2021
  - **Relevant Coursework:** Statistical machine learning, linear models, design experiments, longitudinal data analysis, optimization for big data analytics
- **Brigham Young University—Hawaii** Laie, HI  
*Bachelor of Science in Mathematics, Computer Science* Sep. 2014 - Jun. 2018

## PROGRAMMING SKILLS

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**Languages and Frameworks:** Python, R, SQL, Tensorflow, Keras, Scikit-learn, Pytorch, Tableau, MongoDB, AWS EC2, AWS dynamodb, AWS S3, MapReduce