

Kenneth Lee

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

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SUMMARY

- **About me:** A Ph.D. student in Electrical and Computer Engineering at Purdue University, seeking for a summer internship (May-Aug) in data science/machine learning in 2022. My research interests are causal inference and reinforcement learning.
- **Skills:** Python, R, MySQL, NoSQL, Tensorflow, Scikit-learn, Pytorch, OpenCV, Numpy, Scipy, Tableau, MongoDB, AWS EC2, AWS dynamodb, AWS S3, MapReduce

EDUCATION

- **Purdue University** West Lafayette, IN
Doctor of Philosophy in Electrical and Computer Engineering Aug. 2021 - May 2026
 - **Relevant Coursework:** Causal inference, deep learning, reinforcement learning
- **University of California, Davis** Davis, CA
Master of Science in Statistics Sep. 2019 - Jun. 2021
 - **Relevant Coursework:** Statistical machine learning, experiments design, longitudinal data analysis, optimization
- **Brigham Young University—Hawaii** Laie, HI
Bachelor of Science in Mathematics, Computer Science Sep. 2014 - Jun. 2018

WORK EXPERIENCE

- **Newday Impact Investing** San Francisco, CA
Data Analytics Intern Jun. 2020 - May. 2021
 - **Deep Learning:** 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 neural networks and transfer learning to achieve 0.7 F1-score.
 - **Machine Learning:** Brought over \$1M+ revenue to the company by building 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:** Published a study on the causal effects 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. [\[Link\]](#)