

Kenneth Lee

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| CONTACT INFORMATION | 3800 Solano Park Circle, Apt 3612, Davis, CA 95616 | honlee@ucdavis.edu https://kenneth-lee-ch.github.io www.linkedin.com/in/chinhongkennethlee |
| RESEARCH INTERESTS | Machine learning especially on deep learning, casual inference, robotics, artificial intelligence. | |
| EDUCATION | University of California, Davis | |
| | M.S. in Statistics | 2019 - 2021 |
| | Brigham Young University—Hawaii | |
| | B.S. in Mathematics, Computer Science | 2014 - 2018 |
| | <ul style="list-style-type: none">• Minors: Information Systems, Information Technology• Honors Thesis: <i>An Evaluation of Blind Reconstruction Methods of the Dynamical Structure Functions</i>• Advisor: Vasu Chetty• GPA: 4.0/4.0 | |
| RESEARCH EXPERIENCE | Brigham Young University—Hawaii Institutional Research | |
| | Research Analyst Intern | Aug 2018 - Jun 2019 |
| | <ul style="list-style-type: none">• <i>Consulting</i>: Leveraged 11-year data from enrollment, degree completion, freshman cohort, and curriculum to conduct retention study for BYU—Hawaii President’s council.• <i>Data Visualization</i>: Built pipelines to update Tableau Server workbooks automatically from Quartics surveys.• <i>Database Management</i>: Coordinated with the Enterprise Information System department at BYUH to establish a data warehouse to facilitate institutional research.• <i>Data Cleaning</i>: Trained and supervised students workers on the data cleaning and visualization with R and Tableau.• Status: Part-Time• Working hours: 27 hours per week• Supervisor: Kathy Pulotu | |
| | Research Assistant Supervisor | Sept 2017 - Jun 2018 |
| | <ul style="list-style-type: none">• <i>Literature reviews</i>: Conducted literature reviews for designing new graduating student survey.• <i>Data Visualization</i>: Built a data dashboard from cleaning course evaluation survey data of the past 5 years in R to visualizing the data via Tableau for the school administration and faculty.• <i>Statistical Analysis</i>: Evaluated the redundancy of the graduating student survey questions by using factor analysis.• <i>Survey Design</i>: Led a poster publication titled “<i>How Meaningful Is Our Graduating Student Survey</i>” to showcase how to better evaluate survey design.• Status: Part-Time• Working hours: 19 hours per week• Supervisor: Kathy Pulotu | |

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| | Brigham Young University IDeA Labs Researcher Intern Jun 2017 - Aug 2017 <ul style="list-style-type: none"> • <i>Systems Theory</i>: Research in Systems and Control Theory with applications in a variety of areas including social networks, natural language processing, and biological systems. • <i>Software Engineering</i>: Tasks involve developing code, modeling networks, analyzing simulations, developing theoretical results and writing research papers. • Advisor: Sean Warnick • Status: Full-Time • Working hours: 40 hours per week |
| PROFESSIONAL EXPERIENCE | Newday Impact Investing Data Analytics Intern Jun 2020 - Sep 2020 <ul style="list-style-type: none"> • <i>Machine Learning</i>: Development of financial, statistical, and investment models to construct and manage thematic equity portfolios with machine learning. • Status: Full-Time • Working hours: 40 hours per week Dell EMC Associate Consultant Intern Jun 2019 - Sep 2019 <ul style="list-style-type: none"> • <i>System Testing</i>: Designed and implemented test cases using MS SQL Server for the human resources manpower information system of Hong Kong Vocational Training Council. • Status: Full-Time • Working hours: 40 hours per week |
| TEACHING EXPERIENCE | University of California—Davis Teaching Assistant 2019 - Present <ul style="list-style-type: none"> • Graduate Level <ul style="list-style-type: none"> – BAX 453 Application Domains (Spring 2021) – BAX 452 Machine Learning (Winter 2021) – BAX 411 Intermediate Statistics (Fall 2020) – BAX 400 Foundation of Business Analytics (Summer 2020) – BAX 463 Practicum Analysis & Implementation (Spring 2020) • Undergraduate Level <ul style="list-style-type: none"> – 12Y Data Visualization for Social Sciences (Fall 2019, Winter 2020) Brigham Young University—Hawaii Computer Science Substitute Instructor 2017 <ul style="list-style-type: none"> • CS301: Algorithms and Complexity. Math Lab Tutor (Calculus) 2015 - 2016 |
| PROJECTS | Predict Patient Inflow at Pali Momi Hospital’s Emergency Room <ul style="list-style-type: none"> • <i>Machine Learning</i>: Applied quantile regression model to predict patient inflow at Pali Momi Hospital’s Emergency Room (ER). • <i>Consulting</i>: Provided recommendations for how to optimize scheduling for their ER’s doctors and mid-level providers. |

- Duration: Apr-Jun 2018
- Number of hours per week of effort: 2
- Advisor: Cody Baldwin

Understanding the resting behaviors of Trirectangular Tetrahedral and Triangular Prism Dice Rolls

- *Computer Vision*: Applied Faster Regional-Convolutional Neural Networks (R-CNN) in Python to count dice rolls more efficiently by object detection.
- *Robotics*: Configured a dice rolling machine from scratch to automate the process of dice rolling and reduce bias that may come from rolling dice by hand.
- *Software Engineering*: Rewrote codes from MATLAB image processing toolbox to Python using OpenCV, scikit-image and dlib libraries.
- Duration: 2017- 2019
- Number of hours per week of effort: 3
- Advisor: Paul Hurst

PUBLICATIONS

Conference Proceedings

V. Chetty, N. Woodbury, J. Brewer, **K. Lee** and S. Warnick, *Applying a Passive Network Reconstruction Technique to Twitter Data in Order to Identify Trend Setters*, IEEE Conference on Control Technology and Applications, Kohala Coast, HI, 2017.

Posters

K. Lee, S. Fuluvaka, *Meet Don, the Autonomous Dice Rolling Machine*, Brigham Young University-Hawaii Undergraduate Research Conference, 2018.

K. Lee, K. Pulotu, *Graduating Student Survey Revision: A student effort*, California Association for Institutional Research, Garden Grove, CA, 2018.

K. Pulotu, **K. Lee**, T. Vallabh, Hong Ni M. and R. Ram, *How Meaningful is our Graduating Student Survey?*, Academic Resource Conference, Burlingame, CA, 2018.

SELECTED HONORS

Brigham Young University—Hawaii

Computer and Information Science Overall Outstanding Graduate 2018
(**Top 1 of the graduating class**)

Undergraduate Research Best Oral Presentation Award (**1 out of 30 peer research teams**) 2018

Computer Science Alumni Scholarship (**Nominated by faculty**) 2017 - 2018

Mathematics Departmental Scholarship (**Nominated by faculty**) 2014 - 2018

Academic Merit Scholarship (**Top 5% of the school**) 2014 - 2018

University Dean's List (**Top 5% of the school**) 2014 - 2018

Hong Kong Student Association Leadership Certificate 2015 - 2016

BYUH Student Leadership Award 2015

Association for Computing Machinery

ACM/UPE Scholarship Award (**4 out of all the ACM student members**) 2017

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| | The National Society of Leadership and Success Academic Excellence Scholarship (12 out of all the NSLS inducted members) | 2017 |
| | The Honor Society of Phi Kappa Phi Love of Learning Award | 2019 |
| VOLUNTARY EXPERIENCE | Brigham Young University—Hawaii Hong Kong Student Association President <ul style="list-style-type: none"> Increased membership from 50+ to 100+ in one year. Led my association to perform on a stage in front of 3000+ audience at an annual event called <i>Culture Night</i> at BYUH. Organized 30+ small and large events such as <i>speed dating</i>, <i>food festival</i>, career, and networking workshop for members. Status: Part-Time Working hours: 10 hours per week | 2015 - 2016 |
| | Hong Kong Student Association Vice President <ul style="list-style-type: none"> Created a menu to earn a profit of \$1000+ from annual <i>food festival</i> event for the association in one night. Status: Part-Time Working hours: 10 hours per week | 2014 - 2015 |
| | The Church Of Jesus Christ of Latter-Day Saints Missionary <ul style="list-style-type: none"> Appointed to lead and provide training to groups of up to 30 other missionaries. Gained experience in interpersonal skills by sharing the message of Jesus Christ via means of cold calls, street contacts, and visiting people in their homes. Status: Full-Time Working hours: 112 hours per week | 2012 - 2014 |
| PROFESSIONAL AFFILIATIONS | The National Society of Leadership and Success, Member Phi Kappa Phi, Member Association of Computing Machinery, Member Upsilon Pi Epsilon, Member | 2017 - Present 2016 - Present 2016 - Present 2016 - Present |
| CERTIFICATIONS | Deep Learning Specialization, deeplearning.ai Machine Learning by Stanford University, Coursera Tableau Desktop Specialist, Tableau Software | Jun 2019 Mar 2019 Feb 2019 |
| SKILLS | <i>Language:</i> English (Fluent), Cantonese (Native), Mandarin (Fluent) <i>Programming Language:</i> Python, R, MATLAB, SQL, C#, C, C++, PHP, Ruby, Java <i>Framework:</i> , Pytorch, Keras, OpenCV, Scikit-learn, TensorFlow, Dlib <i>Other:</i> Tableau, AWS EC2, AWS Dynamodb, AWS S3 | |
| REFERENCES | <ul style="list-style-type: none"> Academia: <ul style="list-style-type: none"> – Dr. Vasu Chetty, Principal Data Scientist, Lucid Software Inc., <ul style="list-style-type: none"> * Field of study: Computer Science * Relationship: Thesis advisor, a teacher in multiple classes | |

- * Phone: 808-589-9586, Email: vasuc@lucidchart.com
- **Dr. Sean Warnick**, Associate Professor, Brigham Young University,
 - * Field of study: Computer Science
 - * Relationship: Summer research internship supervisor
 - * Phone: 801-422-6463, Email: sean@cs.byu.edu
- **Dr. Paul Hurst**, Associate Professor, Brigham Young University—Hawaii,
 - * Field of study: Mathematics
 - * Relationship: Research advisor, a teacher in multiple classes
 - * Phone: 808-675-3802, Email: hurstp@byuh.edu
- **Dr. Joel Helms**, Professor, Brigham Young University—Hawaii,
 - * Field of study: Mathematics
 - * Relationship: A teacher in multiple classes
 - * Phone: 808-675-4704, Email: joel.helms@byuh.edu
- **Mr. Cody Baldwin**, Assistant Professor, Brigham Young University—Hawaii,
 - * Field of study: Supply Chain and Operations
 - * Relationship: A teacher in one class
 - * Phone: 808-675-4827, Email: cody.baldwin@byuh.edu
- Employment:
 - **Ms. Kathy Pulotu**, Institutional Research and Assessment Manager, Brigham Young University—Hawaii,
 - * Relationship: Direct supervisor
 - * Email: kathy.pulotu@byuh.edu
 - **Dr. Rose Ram**, Associate Academic Vice President Curriculum and Assessment, Brigham Young University—Hawaii,
 - * Relationship: Indirect supervisor
 - * Email: rose.ram@byuh.edu