

Truong Phan Viet Tran

17631 Harvest Ave, Cerritos CA (562) 739-5095 truongtran0@gmail.com

•[linkedin.com/in/truong-tran](https://www.linkedin.com/in/truong-tran) •github.com/ttran0

EDUCATION:

California State University, Long Beach

December 2015

Master of Science in Applied Mathematics

University of California, Irvine

Bachelor of Science in Mathematics

June 2013

SKILLS:

- **Programming languages:** Proficient in Python (Preferred), Matlab, R, and LaTeX. Working knowledge in SQL (PostgreSQL), Tableau, and Git. Basic Knowledge of Java, HTML, and CSS.
- **Framework and tools:** Jupyter Notebook, Numpy, scikit-learn, Pandas, GraphLab-Create, Matplotlib, Seaborn, Plotly, scipy, BeautifulSoup, Microsoft Word, Microsoft PowerPoint, Microsoft Excel

EXPERIENCE:

Long Beach City College

May 2016 – Present

Independent Researcher

- Use 10 years of college-wide student data to analyze and build machine learning models determining and predicting student success and risk factors
- Create an early detection model to predict student outcomes, creating opportunities for early intervention to improve student retention and persistence

California State University, Long Beach

January 2016 - Present

Lecturer - Department of Mathematics and Statistics, Department of Computer Engineering and Computer Science

- Construct and effectively communicate course content including assignments, exams, projects, and lectures to develop students' critical thinking and problem solving skills in lower and upper mathematics, computer science and computer engineering courses
- Collaborate with applied mathematics graduate advisor to develop and redefine course curriculum in Calculus courses incorporating programming with Python and Jupyter Notebook to enhance students' understanding of real world applications

Machine Learning and Convex Optimization Independent Study

California State University, Long Beach

September 2015 - December 2015

Under the Direction of Dr. James von Brecht

- Studied supervised, unsupervised, and semi-supervised machine learning and convex optimization algorithms/problems in detail with emphasis on large-scale data
- Parsed and cleaned PITCHf/x data to construct MLB pitcher database from 2008-2015 seasons using R and pitchRx package
- Built models using Hidden Markov Models to model pitching sequence of baseball data resulting in the prediction of pitchers' performance and support vector machine to predict pitch type sequence

Long Beach City College

September 2015 - December 2015

Data Consultant - Math Success Center

- Analyzed student and center data using statistics to provide decision-making analytics used in budget proposal plan for Math Success Center
- Collaborated with Math Success Center coordinators and co-consultant to summarize analytical results into solutions using visualization such as tables, graphs, and reports to improve efficiency in center's operations