

Steven Chu

161 Lundy's Lane, Apt 1 | San Francisco, CA 94110
stevencl@gmail.com | 919-637-6189
<https://github.com/chusteven>

EDUCATION	MS IN ANALYTICS (Summer 2014 – July 2015 expected) University of San Francisco	SAN FRANCISCO, CA
	BS IN MATHEMATICS; SECOND MAJOR IN ENGLISH (Fall 2006 – Spring 2010) University of North Carolina at Chapel Hill	CHAPEL HILL, NC
RELEVANT COURSES	Statistics: Advanced Machine Learning, Linear Regression Analysis, Time Series Analysis, Multivariate Statistics Data Skills: Data Acquisition, Relational Databases, NoSQL Databases, Distributed Computing, Data Visualization Business Skills: Business Strategies, Business Communications, Marketing Analytics, Web Analytics Languages: Python, R, MySQL, PostgreSQL, NoSQL, SAS, JavaScript (for visualization in D3)	
SELECTED PROJECTS	USF INTERNSHIP: FANDOR (Fall 2014 – present) Apply statistical techniques such as machine learning, hypothesis testing, and cohort analysis to answer important business questions. Data gathered and cleaned with MySQL queries; analyses performed in Python and R. <ul style="list-style-type: none">Defined and calculated metric for understanding efficacy of current film recommendation systemDefined and calculated lifetime value of a Fandor user under various business modelsDeveloped framework for performing user path analysis on Fandor's web applicationDefined and calculated metric for understanding the value of an individual film	SAN FRANCISCO, CA
	USF COURSEWORK: MACHINE LEARNING PREDICTION (Spring 2015) Predicted how a user would rate an artist-track pair, achieving R^2 value of 0.505 with random forest algorithm (Kaggle competition). Predictions based on demographic and musical content features. Compare to Kaggle leader of $R^2 = 0.65$. <ul style="list-style-type: none">Performed data exploration, munging, feature engineering, and analyses in Python and RCreated class object in Python for implementing particular framework for training prediction algorithms	SAN FRANCISCO, CA
	USF COURSEWORK: TIME SERIES ANALYSIS (Fall 2014) Forecasted US non-agriculture monthly workforce employment numbers, achieving mean absolute deviation value of 173.04 on test set forecasts using differenced time-series SARIMA model. <ul style="list-style-type: none">Created model and tested for plausible stationarity, white noise processes, ARCH, and GARCH effects using econometric analyses and tools in RForecasted future months' employment numbers with 95% confidence bands	SAN FRANCISCO, CA
	USF COURSEWORK: LINKEDIN DATA ACQUISITION (Fall 2014) Identified skills market on LinkedIn – measured by probability using Beautiful Soup and RESTful APIs in Python. <ul style="list-style-type: none">Accessed companies and employees of interest with vetted API services as well as web-scrapingCompiled most employed skills by calculating frequencies of skills for employees of interest	SAN FRANCISCO, CA
	USF COURSEWORK: SENTIMENT ANALYSIS (Summer 2014) Classified movie reviews as either positive or negative, achieving 80% accuracy on test sets. <ul style="list-style-type: none">Cleaned individual text files, created dictionary of positive and negative words, and computed probabilities of each class using Naïve-Bayes algorithm in Python	SAN FRANCISCO, CA
WORK EXPERIENCE	SAINT ANN'S SCHOOL (Fall 2011 – Summer 2014) Saint Ann's is an independent, non-sectarian private school. The school eschews traditional grading in favor of holistic narrative reports. Teachers design flexible curriculums around student interests. Math Teacher, Independent Research Mentor, Assistant Basketball Coach <ul style="list-style-type: none">Planned and administered daily lessons for 3rd grade, 6th grade, Algebra I/II, Geometry, and Calculus classesCollaborated with other teachers to generate curricular standards, class rosters, and departmental structure	BROOKLYN, NY
	MATCH CHARTER PUBLIC HIGH SCHOOL (Fall 2010 – Summer 2011) The MATCH School works to close the achievement gap through a "No Excuses" approach. MATCH Corps Tutor, Administrative Assistant to the Director of Recruiting, English 12 TA <ul style="list-style-type: none">Worked with Recruiting Department to hire MATCH Corps tutorsTutored freshmen, sophomores and juniors in Math, English, History, Chemistry and Spanish	BOSTON, MA