

# PAUL CHUNG

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## CONTACT

✉ pachung121@gmail.com  
☎ (310) 922-2607  
📍 Los Altos, CA 94022  
in paul-j-chung  
🔗 brokengrappler

## PROJECTS

**Real-time Run Pace Aid/Predictor** Sept. 2020 to Current

- Utilized time-series forecasting to predict both pace and cadence during runs
- As a proof of concept, used predicted pace to select and change music during a run at a specified BPM to maintain a target pace
- Coded scripts to interact with multiple APIs to collect data and change user's music
- MdAPE for predicted pace on a 30 second horizon was 0.236%

**Identify Potential Fake Yelp Reviews** Aug. 2020 to Aug. 2020

- Used NLP techniques to identify topics correlated with potentially fraudulent reviews on Yelp
- Applied various matrix factorizations to obtain topic models to aid in identifying genuine and fake reviews
- Used k-means clustering to identify topic groupings with higher density of fake reviews
- Coded a classifier model using discoveries from the unsupervised learning phase
- Incorporated word embeddings in an attempt to optimize the classifier

**Post Operative Nausea and Vomiting Classifier** July 2020 to Aug. 2020

- Classifier to estimate probability of patients experiencing nausea post operatively
- F1 score for my model tested 3.2% higher than that used widely in the industry
- Used oversampling and stratified k-fold with multiple classification models including random forest, Gaussian Naive Bayes, and XGBoost; ultimately selected logistic regression due to interpretability of probability
- Deployed application in StreamLit

## EDUCATION

University of California, Los Angeles Sept. 1998 to June 2003  
BS Electrical Engineering

## SKILLS

**LANGUAGES:** Python, VBA (MS Excel), pySpark  
**DATABASES:** Postgres, MySQL, MongoDB, NoSQL  
**LIBRARIES:** pandas, numpy, sklearn, facebook prophet, statsmodels  
**DATA VISUALIZATIONS:** Tableau, Matplotlib/Seaborn  
**MACHINE LEARNING TECHNIQUES:** Regression/Classification, Clustering, Dimensionality Reduction, Natural Language Processing, Time-series Forecast, Neural Nets  
**CLOUD PLATFORMS:** AWS (EC2, EMR, Sagemaker), Git

## EXPERIENCE

Metis Data Scientist July 2020 to Sept. 2020 Online

- An accredited 12 week immersive data science bootcamp with a curriculum based in Python
- Completed five end to end data science projects with various machine learning algorithms and requirements
- ETL raw data acquired on the web to relational database systems used for projects
- Recreated common machine learning algorithms from scratch
- Used industry accepted tools including AWS, Vim, Git, PyCharm, and Jupyter Notebooks to complete projects and assignments

New City Advisors Managing Director Campbell, CA July 2018 to Feb. 2020

- Built financial models for over \$300M in real estate developments
- Performed financial due diligence on behalf investors to guide their investment decisions, resulting in over \$100M in closed transactions
- Created excel models to manage capital accounts and distributions for over 100 retail investors
- Managed investor relations through direct correspondence with investors and performed ad-hoc analyses for investors
- Negotiated waterfall and fee structures with general partners

Christie Consultants Vice President Los Altos Hills, CA June 2015 to July 2018

- Developed cash flow models in ARGUS DCF/Enterprise and MS Excel for acquisitions and quarterly valuations for a portfolio totaling \$900M
- Created pro forma models for a transaction volume of \$60.2M consisting of eight properties
- Drafted financial analysis sections of offering memoranda for brokers
- Prepared and automated property accounting reports through VBA scripts

New Market Real Estate Group Commercial Real Estate Appraiser Pleasant Hill, CA Sept. 2013 to June 2015

- Provided quarterly cash flow and valuation updates for a real estate portfolio valued at \$1.2B
- Authored quarterly capital market surveys through discussion with clients' acquisition teams and brokers
- Drafted self-contained appraisal reports used for financial reporting requirements
- Provided industry software training to colleagues
- Resolved valuation issues with clients and third party appraisal reviewers
- Coded VBA scripts in internal valuation models to decrease report turnaround time for the company

Deloitte Financial Advisory Services Associate/Senior Associate/Manager Chicago, IL Sept. 2006 to Sept. 2013

- Built valuation and cash flow models used for financial reporting purposes
- Provided asset management advisory on a portfolio of 35+ regional malls valued at approximately \$8.0B through the life cycle of the investment
- Created ARGUS models used for \$10.0B disposition of the legacy Equity Office portfolio
- Selected to company's Emerging Leaders Development Program

## VOLUNTEERING

Microsoft's TEALS Program · Teaching Assistant Los Altos, CA Aug. 2015 to June 2016

- Assisted in creating curriculum for Intro to Computer Science class for high school students
- Provided individual aid to students during class
- Languages taught included Snap! and basic Java

