Pheng Ang (Andy) Chiv

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EDUCATION

California Polytechnic State University **San Luis Obispo, CA**

M.S. in Business Analytics | GPA: 4.0 / 4.0 Expected Graduation: June 2023

- ***Coursework*:** Data Science Statistics, Machine Learning, Data Management, Data Mining, Predictive Analytics, Econometrics, Cloud Services Application, Data Visualization and Communication, Financial Time-Series

B.S. in Applied Mathematics, Minor: Statistics | GPA: 3.67 / 4.0 June 2022

- ***Coursework*:** Mathematical Data Science, R Programming, Regression, Probability, Linear Algebra, Numerical Optimization

TECHNICAL SKILL

Programming:	Python (NumPy, Pandas, Scikit-learn, NLTK), R (dplyr, Tidymodels), SQL, MATLAB
Analytics:	ETL, Database, Data Visualization, A/B Testing, Supervised & Unsupervised Machine Learning
Tools:	Tableau, Jupyter Notebook, Google Colab, TensorFlow, SparkML, MS Office

PROFESSIONAL EXPERIENCE

Data Consultant, *Cal Poly DxHub* March 2022 – June 2022 | **San Luis Obispo, CA**

- Led production of **classification models** in **Python** to predict a grocery category on a 3000+ dataset through cross-validation, successfully classifying comestibles into 33 categories with an accuracy rate of 75%.
- Performed exploratory data analysis by preprocessing raw data and visualizing distributions to identify trends with **Seaborn**
- Conducted statistical analysis (t-test) on product price for 33 categories among 3 large retail companies including Walmart, Target, Noon (UAE).

Mathematics Workshop Facilitator, *Cal Poly Academic Skills Center* September 2021 – June 2022 | **San Luis Obispo, CA**

- Facilitated study sessions for 10-15 students 4 times a week by creating worksheets (on LaTex) that encourage collaborative learning to enhance their understanding of **Multivariable Calculus** and **Linear Algebra** courses.
- Elevated student performance by at least one letter grade with 25% average improvement scores and received at least 95% positive feedback quarterly from students for effectiveness and organization.

Summer Research Intern, *Cal Poly Math Department* June 2021 – August 2021 | **San Luis Obispo, CA**

- Researched on computation of matter waves in atomic physics by approximating the numerical solutions of Nonlinear Differential Equations in **MATLAB** under Dr. Stathis Charalampidis.
- Led a team of 3 interns to investigate the existence, stability, and dynamics of the solutions by running the model 100+ times using Newton's method and Runge-Kutta algorithm, improving solution robustness by 90%.
- Coordinated a 20-page scientific report on LaTex and delivered a conference presentation to 50+ undergraduate students and professors.

ANALYTICS PROJECT

SQL Food Pop-up Business Database | *Class Project (Skills: SQL, Database Management)*

- Collaborated with 4 graduate students to design a working database in **MySQL** for food pop-up businesses by creating relational schema that stores customer, order, transaction and delivery data.
- Define business metrics to suggest marketing campaigns to optimize customer engagement by executing **SQL queries**

Predicting Cinema Ticket Sales | *Class Project (Skills: R Programming, Statistical Analysis)*

- Implemented multiple **regression models** in **R** to analyze the predictors that affect the seasonal cinema ticket sales across the US.
- Used **Spotlight** and **Floodlight** analysis to visualize customer propensity through ggplot2.
- Designed targeting marketing strategies and recommendations to boost the cinema ticket sales.

Chipotle Customer Segmentation | *Class Project (Skills: R Programming, Statistical Analysis)*

- Created **K-Means clustering models** for segmenting Chipotle customers based on demographic, behavioral and psychological factors to find the optimal marketing mix, resulting in 3 targeting groups for high profitability in sales.
- Conducted comprehensive mean analyses on approximately recorded 400 survey data points and provided product recommendations to increase customers and profits.