# Ruo-Yi Evelyn Liang

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## SUMMARY

Data Science Meets Product Strategy—Turning Analytics into Action

## EDUCATION

**University of California, Berkeley**                                                  Berkeley, CA
*Master of Analytics, IEOR, College of Engineering*                    *Aug 2025 – Present*
esumeSubSubheadingGPA: 3.7/4.0

  esumeItemCourses: Machine Learning, Optimization, Design of Databases, Risk Modeling, Transportation/Supply Chain and Logistics Management

**National Taiwan University (NTU)**                                             Taipei, Taiwan
*Bachelor of Business Administration in Technology Management*                    *June 2024*
esumeSubSubheadingGPA: 3.8/4.0

  esumeItemCourses: Data Analysis and Machine Learning with Python, Manufacturing Data Science, Marketing Analytics, Human Computer Interaction and User Studies, Project Management

## EXPERIENCE

**Data Analysis Intern (Product Team)**                                     June 2023 – Dec 2023
*Shopee Pte. Ltd.*                                                                 *Taipei, Taiwan*
  esumeItemMonitored operational performance in delivery channel and saved 5% costs by creating 10+ dashboards and reports using TrinoSQL from an 8 million+ transaction dataset

  esumeItemIncreased 2% in monthly sales through A/B testing on page design using the CVR metric and applied statistical analysis

  esumeItemConducted data-driven and interview-based analyses for business and product recommendations, collaborating cross-functionally with stakeholders across 4 departments

  esumeItemDeveloped an RNN-based machine learning model, automating employee classification and saving 20+ hours of workload weekly

**Research Assistant**                                                           Dec 2022 – July 2023
*Human-Computer Interaction Lab in National Taiwan University*                    *Taipei, Taiwan*
  esumeItemConducted Text-Based Sentiment Analysis by transforming qualitative insights from unstructured data into quantitative data esumeItemAnalyse the correlation between Autism Spectrum Condition and algorithmic bias using Lavaan in R esumeItemCo-authored a thesis on data credibility and correlation, presented findings in academic discussions

sectionProjects
resumeSubHeadingListStart
resumeProjectHeading
textbfCapstone - 2nd Prize in Google Case Competition: Dynamic Staffing Optimization
resumeItemListStart
resumeItemAchieved a 16% profit boost by engineering a linear programming optimization model that dynamically adjusted agent staffing in real-time
resumeItemListEnd
resumeProjectHeading
textbfPredictive Modeling for Aviation Maintenance Optimization |
emphEDA, SelectKBest, PCA, Random Forest, XGBoost
resumeItemListStart
resumeItemProcessed and analyzed 22 million records, narrowing down to 330,000 samples, to develop a predictive model optimizing aviation maintenance, reducing costs, preventing failures, and enhancing safety
resumeItemListEnd
resumeProjectHeading

textbfPublic Bicycle Usage Analysis and Machine Learning Prediction |
emphGradient Boosting Regressor, time series analysis, BeautifulSoup, Pandas, PowerBI, Excel
resumeItemListStart
resumeItemDeveloped an ML model (Gradient Boosting Regressor) with 85% R-squared accuracy to predict
bicycle availability at stations using time series analysis
resumeItemListEnd
resumeSubHeadingListEnd

## Technical Skills

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small
item
textbfData Analysis: NumPy, SciPy, TensorFlow, PyTorch, Pandas, Matplotlib, BeautifulSoup
textbfDatabase: MySQL, Trino SQL, MongoDB
textbfProgramming languages: Python, C/C++, SQL, R, C#
textbfTools: Tableau, PowerBI, Github, Spark, AWS, Microsoft Office, MATLAB
enditemize

## Leadership & Activities

**extbfEvent General Coordinator of Graduates' Catered Banquet**       Apr 2023 – May 2023

esumeItemLed a team of 100+ across 7 departments for events (dance, singing, keynote speech, etc.)
catering to 3,000+ students at Royal Palm Blvd

esumeItemCoordinated with 12 sponsors including Hua Nan Commercial Bank, Hotai Motor Co, BABI
International Corp.