

JIASHU MIAO

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Work Experience

Sony Pictures Inc., Sony Corporation *Data Analyst Intern, Business Intelligence*

Los Angeles, CA
Jun. 2019 - Sep. 2019

- Deployed Jupyter workspace with **R and Python** environment, **SQL interface** and API on 10 **Linux** servers for **remote** access, big-data management & computing;
- Extended the service with for company **multi-user** access, collaboration and administration, **saving 30%+ time** than individual deployment;
- Conducted **time series anomaly detection** for 50k Nielsen TV stream data in Sony's **Tableau warehouse** by and created 50+ visualized dashboards for clients;
- Supported data science initiatives with **SQL database**, **NLP** operation for TV genres with defined business objectives, **data scrape** and **visualization methods**;
- Researched and built Python **automation solutions** to support business intelligence and presentations to **100+ audiences across teams**.

Forkaia *Data Science & Analytics Intern, Marketplace*

Irvine, CA
Mar. 2019 - Jun. 2019

- Assisted two data-science based projects to establish business plans, implement marketplace analysis for user information and **A/B testing for platform performance**;
- Conducted **data preprocessing** on 20+ raw datasets and addressed **data consistency** issue with error detection, **correction and imputation** in R;
- Collaborated on an **audio detection model** to identify and classify 400 audio instances in Spotify, and parsed solutions with ML, information retrieval, clustering algorithms.
- Engaged clients to **develop software-based algorithms** for 20k users' **behavior data** with analytical objectives using Excel and **streamlined the process**.

UCLA Health, Department of Medicine Statistics Core *Statistical & Analytical Research Assistant*

Los Angeles, CA
Sep. 2018 - Jun. 2019

- Assisted principal statistician with **database design, data management** and project development for 12k patients' information using **REDCap and SQL**;
- Engineered 12 **predictive models** (logistic, kNN, SVM, trees) applied in healthcare, which **optimized current algorithms** for hospital LACE index and readmission prediction;
- Implemented **model validations and evaluation** with multiple measurements (accuracy, AUC, ROC, user acceptance), and final results approved 15% increased performance
- Conducted further analytical study to assist scholars and clients with project improvement.

USA-UES, Edtech Company *Automated Statistics & Software Engineer Intern*

Los Angeles, CA
Jul. 2018 - Dec. 2018

- Implemented **survey analysis** based on data collected from 200+ students, engineered 14 scaled factors to **automatically formulate customer reports**, saving 40% time;
- Optimized the education model, currently integrated into "USA-UES" iOS portal, by performing **feature selection, regularization**, and added 7 parameters for high-level automation, adjustment and testing;
- Designed and developed a front-end utility to achieve **integration of data storage and analysis solutions**, and added fuzzy matching, text entering & searching functionalities;
- Assisted the research team with 20% improved **survey methodology implementation** and **statistical consulting** to optimize analytical-based algorithms;
- Developed mechanisms for **data-fetching, web-automation and mapping** with R & Python, and managed on **Github** to facilitate 5 projects and assist 20 people's work.

Wilshire Financial Network *Business Analyst Intern*

Beverly Hills, CA
Mar. 2018 - Jun. 2018

- Conducted 5 cohort analysis of real estate bankruptcy data from 10+ California judge's calendars to **investigate potential customer patterns and several KPI's**;
- Optimized the customer database management and **assisted acquisition plans** with 15% increase in conversation rate.

Education

University of California, Los Angeles.

B.S in and Statistics & Applied Mathematics;
GPA 3.80/4.00; Expected 2020;
• RA at UCLA Halperin Big-data Genomics Lab.
• EY NextWave Data Science Global Competition 2019 — Country/Region's Finalist.
• Kaggle Competition: Predicting the Affordability of Houses in Ames — Overall Ranking: 2, Top 6%.

Technical Skills

• Python, R, SQL, C++, SAS, Matlab, Node.js (NPM), Bash, Git, HTML, RHEL& CentOS Linux

• Tableau, Plotly, PostgreSQL, pgAdmin4, JupyterHub & IPython Notebook, REDCap Database, MS Excel, Google Analytics, Citrix

• Linear Algebra, Mathematical Modeling, Data Mining and Modeling, Data Visualization, ML Algorithms, Database Management

Selected Projects

EY DATA CHALLENGE - LOCATION PREDICTION[R,PYTHON]

• Featured and tested 37 Classification models with ML algorithms: LDA, QDA, k-NN, SVM, Boosting, Forest, Ensemble, etc; evaluated and tuned for high performances.

DUE DILIGENCE CHECKING [PYTHON, R (NLP)]

• Developed an interactive BI mechanism using NLP R-packages and Python Selenium to fetch, analyze and process, mapping text data for background checking of new employees with extended automatic functionalities.

ZIPLINE UAV(UNMANNED AERIAL VEHICLE) FLIGHT DATA EXPLORATION [R, PLOTLY, TABLEAU]

• Combined time-series and geolocation study of 800+ datasets from 40 drones' flights over a month to conclude advice for business operation and identify engineering risks.

RUGBY 7S SPORTS ANALYTICS [R, TABLEAU]

• Studied Canadian Women's Rugby players' fatigue levels and performance by analyzing game data, athletes' surveys, and delivered executable advice to coaches.

DEMOGRAPHIC ANALYSIS WITH MAPS [SQL]

• Visualized analysis of demographic information for Seattle areas for three decades via Tableau interactive maps and plots to provide geolocation distribution, city plan insights, etc.

CLINICAL STATS CONSULTING [R, PYTHON, GPOWER]

• Designed experiments with GEE models and inference analysis to assist UCLA Stein Eye Institute to assess eye surgeries and treatments.