

Kehsin (Esther) Su

+1-510-993-7557 | esther730@berkeley.edu | 23920 Anza Ave, Torrance, CA, 90505

LinkedIn Profile: <https://www.linkedin.com/in/esther-su-asa-0730/>

4 years of experience in analytics; Experienced with large-scale data and end-to-end machine learning systems

PROFESSIONAL EXPERIENCE

- | | |
|--|--|
| Boston Consulting Group (BCG), Digital Ventures
<i>Data Scientist II</i>
Areas: Computer vision, Natural language processing, Reinforcement learning
(Optical flow, RetinaNet, BERT, TFIDF, BIGRU, DAG, elastic search, LTR, NN, Thompson sampling) | Manhattan Beach, California
Feb 2019 - Now |
| <ul style="list-style-type: none">• Built the geofencing system to prevented 99%+ incidences in the factory (object tracking)• Built the 1st generation QA system to reduce 20% customer waiting time and knowledge transfer cost• Integrated a LTR model to the search ranking system to optimize 5% of user feedback metric• Improved the tire recommendation power by filling thousands of data gaps with imputation and web-scraping• Built the scoring algorithms to integrate and normalize the business opportunities from different data sources• Recommended personal sleep contents with cold-start issue by a reinforcement learning algorithm | |
| Mercuries Life Insurance Company Ltd.
<i>Product Developer - Actuarial Analyst, ASA</i>
Area: GLM, Survival analysis, Stochastic analysis, Multivariate/Univariate analysis
(Poisson/Gamma regression, Chain ladder, Markov chains, Bayesian, Bootstrap, Back-testing) | Taipei, Taiwan
Sep 2014 - Jun 2017 |
| <ul style="list-style-type: none">• Developed a novel whole life cancer product (UBAC) to increase customer acquisitions and revenues• Executed experience study, sensitivity analysis, cash flow forecasting, and simulation for risk and profit optimization | |
| Boston Consulting Group (BCG), Digital Ventures
<i>Data Scientist (Intern)</i>
Area: Time Series Analysis (LSTM, dynamic regression, threshold autoregression, grey forecasting model (GM(1,1))) | Bellevue, Washington
Jun 2018 - Aug 2018 |
| <ul style="list-style-type: none">• Created benchmarks for the water auto-fill system to save 10% of cost in the green house• Implemented a new grey forecasting model to deal with limited data and improve 38% of accuracy | |
| Intento
<i>Data Scientist (Intern, co-op with Division of Data Science at UC Berkeley)</i>
Areas: AB testing, Recommendation, Natural language processing (Sentiment analysis) | Berkeley, California
Feb 2018 - May 2018 |
| <ul style="list-style-type: none">• Designed a customer-facing sentiment APIs experiment to distill customer satisfaction for further recommendation | |
| Disease Surveillance And Risk Monitoring (DiSARM) Platform, UCSF
<i>Researcher (part-time)</i>
Areas: Spatial analysis, Machine learning-classification, Data Visualization | San Francisco, California
Feb 2018 - May 2018 |
| <ul style="list-style-type: none">• Classified building types in Africa with OpenStreetMap to implement the malaria control into household level• Combined Leaflet and Shiny to visualize the classification model into a web app to deliver insights at scale | |
| Department of Statistics, University of California Berkeley
<i>Statistical Consultant (part-time)</i>
Areas: Nonparametric analysis, Casual inference (Wilcoxon test, meta-analysis, mediation analysis) | Berkeley, California
Aug 2017 - Dec 2017 |
| <ul style="list-style-type: none">• Assisted the Compassion Cultivation Training(CCT), medical and psychological research | |

EDUCATION

- | | |
|--|-----------|
| University of California Berkeley, California, USA
<i>Master of Arts (M.A.), Statistics</i> | Dec, 2018 |
| National Taiwan University, Taipei, Taiwan
<i>Computer Science and Information Engineering (Information System Training Program Certification)</i> | Dec, 2016 |
| National Taipei University, Taipei, Taiwan
<i>Bachelor in Business Administration, Statistics (AACSB accredited)</i> | Jun, 2014 |

PUBLICATION

- *American Society of Tropical Medicine and Hygiene 67th Annual Meeting Poster Session C 1507. Improving precision of health campaigns through an API for identifying residential buildings. Su K, Andrade-Pacheco R, Li E, Liu L, Feng M, Sturrock HJW*

TOOLS AND SKILLS

Python, R, VB, SAS, C, MATLAB, SQL, NoSQL(MongoDB), Unix Shell Scripting;
Spark, Keras, Git, REST API(Flask, Falcon), Docker;
AWS(S3, SageMaker, EC2, EMR), GCP(BigQuery, Kubernetes, Data Studio);