RICHARD W. LU

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SKILLS

Languages	Python (sklearn, pandas, matplotlib, nltk, splinter, flask), R, SQL, HTML, CSS (bootstrap), JavaScript (d3)
Analytic Tools	Regression, Econometrics (matching, fixed effects, hazard rate models), NLP (vector space models), Machine Learning, Simulation

EXPERIENCE

Data Science Fellow, Insight Data Science, San Francisco, CA   Jun 2019 - Present

· Deployed a flask application that tags reviews by topic (Demo http://richardwhlu.com/demo)

· Achieved 0.86 - 0.93 AUC models by extracting five categories of **NLP** features, including unique **word embedding** features

· Increased accuracy of models by incorporating unlabeled data through **semi-supervised learning**

Graduate Researcher, UC Berkeley, Berkeley, CA   Aug 2014 - May 2019

· Transformed cultural fit survey responses into longitudinal data using **random forest models**

· Determined elements of profile pictures that contribute to perceived responsibility by integrating **CNNs** with class activation maps

· Improved on traditional survey-based measures of self-monitoring in predicting individual outcomes by constructing a behavioral, **linguistic measure**

· Identified differential effects of atypical career movement by gender through **econometric methods**

· Taught review sessions and facilitated courses of roughly 60 MBA students, receiving instructor ratings 8 - 24% higher than average

SQL Instructor, Leada, Berkeley, CA   Aug 2015 - May 2016

· Instructed students in **SQL** alongside training modules, answering questions and clarifying concepts for students from multiple companies

· Trained additional instructors and created material on SQL Views for the online training modules

Senior Design Consultant, Chico's FAS, Inc., Winder, GA   Jan 2013 - May 2013

· Delivered a technical report to improve the flow time of inventory through a 235,000 square foot distribution center collaborating on an eight-person team

· Advised a large purchasing decision based on a **simulation** model and decision support tools, including a layout optimization, which estimated an improvement of 35.7% on the flow time of inventory

EDUCATION

University of California, Berkeley, Berkeley, CA   Aug 2014 - May 2019
Ph.D., Business Administration

Georgia Institute of Technology, Atlanta, GA   Aug 2011 - Dec 2013
B.S., Industrial and Systems Engineering