

# Savita Ramaprasad

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## EDUCATION

**University at Albany, SUNY**, PhD, Economics (Econometrics)  
**IIT Kanpur** (Kanpur, India), Integrated M. Sc., Economics

Aug '12 – Dec '18 (Expected)  
Aug '07 – May '12

**Courses:** Time Series Analysis (A<sup>-</sup>), Applied Economics (A<sup>-</sup>), Linear Algebra (8/10), Programming Tools and Techniques (10/10), Mathematical Modeling (10/10), Probability and Statistics (8/10), Fundamentals of Computing (8/10)

**Online Courses:** Machine Learning, Statistical Inference, The Data Scientist's Tool Box

## TECHNICAL SKILLS

- R, Python (proficient); pandas, SQL, UNIX/Linux (competent)
- Hypothesis Testing, Probability, Causal Inference
- Linear/logistic regression, Random Forests, Gradient Boosting

## QUANTITATIVE & PROGRAMMING EXPERIENCE

*Does ride-sharing reduce drunk driving deaths?*

Graduate Researcher, University at Albany, SUNY

Jan '18 – Present

- Isolated impact of ride-sharing services in Illinois on alcohol-related fatal crashes by controlling for variables which influence entry of ride-share, fixed-effects and city-specific linear time trend, ride-share time trend and variables that affect alcohol consumption or crash rate
- Preliminary results indicate that fatal crash rate decreases by 1.7% per month and does not significantly impact alcohol-related fatal crashes. Robustness checks are in progress.

*Data Science Projects on Prediction and Analysis of Experiments*

Aug '17 - Dec '17

- Predicted house prices using lasso linear regression models with mean and median absolute percentage error being 6.5% and 10.8% respectively
- Identified factors contributing to conversion in an online store using logistic regression, evaluated model using true positive rate and false positive rate and used model to draw insights to increase conversion
- Disproved the incorrect initial conclusion that conversion for an e-commerce site decreased due to the introduction of localized Spanish translations, using country level t-tests to re-evaluate the A/B test results
- Modeled the likelihood of fraud in an online store using Random Forests. Used the model and data visualizations to identify important predictors of fraud namely (i) week of purchase, (ii) time interval between sign-up and purchase time and (iii) presence of multiple accounts on the same device

*Causal Inference of California's Paid Family Leave on fertility and birth outcomes*

Graduate Researcher, University at Albany, SUNY

Jan '15 – Jun '17

- Found using a difference-in-differences methodology that the paid family leave did not affect births or their timing but reduced the share of preterm births (a birth outcome metric) by 2.9%
- Implemented [R package](#) for the Webb Cluster Bootstrap method to tackle the problem of correlation among errors within states to obtain statistical significance of the effect

## TEACHING & LEADERSHIP EXPERIENCE

Instructor, *Principles of Economics I: Microeconomics*, University at Albany, SUNY

Fall '15 & Spring '16

- End-to-end responsibility of the course from syllabus to exam papers for a class of ~90 undergraduates

Instructor, *Tools of Economics*, University at Albany, SUNY

Spring '15

- Taught, supervised, held office hours and graded a class of ~30 undergraduates

Teaching Assistant, University at Albany, SUNY

Spring '14 & Fall '14

- Tutored undergraduate students for intermediate Microeconomics & Macroeconomics
- Managed and updated the Economics department website