# Savita Ramaprasad

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## EDUCATION

**University at Albany, SUNY**, PhD, Economics (Econometrics) Aug '12 – Aug ' 18 (Expected)
**IIT Kanpur** (Kanpur, India), Integrated M. Sc., Economics Aug '07 – May '12

**Courses**: Time Series Analysis (A$^-$), Applied Economics (A$^-$), 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, pandas, scikit-learn, SQL, UNIX/Linux, Tableau
- Hypothesis Testing, Probability, Machine Learning, Algorithms and Data Structures

## QUANTITATIVE & PROGRAMMING EXPERIENCE

*Causal Inference of California's Paid Family Leave on fertility, birth outcomes and immunizations*
Graduate Researcher, University at Albany, SUNY

- Found using a difference-in-differences methodology that the paid family leave did not affect births, immunizations 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

*Data Science Projects on Prediction and Analysis of Experiments*

- 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 using logistic regression for an online store, evaluated model using true positive rate and false positive rate, used model to draw insights to increase conversion
- Disproved the initial incorrect conclusion that A/B test results were negative for the introduction of localized Spanish translations on an e-commerce site, using country level t-tests
- 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) difference between sign-up and purchase time and (iii) presence of multiple accounts on the same device

*Does ride-sharing reduce drunk driving deaths?*
Graduate Researcher, University at Albany, SUNY

- Isolate impact of ride sharing services in Chicago on alcohol-related motor vehicle crashes using Illinois crash data (This is a work in progress)
- Determined required data and extracted it from sources like IL Dept. of Transportation, US Census Bureau

## 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