

# DESHAWN SAMBRANO, PH.D.

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## EDUCATION

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**Harvard University**

2023

PhD in Neuroeconomics: Speciality Modeling Uncertainty and Forecasting Decisions

## TECHNICAL SKILLS

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**Programming Languages/Technologies:** Python, R, SQL, JS, AWS, Git, Docker, DataBricks

**Packages:** Pandas, Numpy, Scipy, PyTorch, Tensorflow, scikit-learn, lmer4, stats-models, PySpark

**Statistical Techniques:** Machine Learning (e.g., Neural Networks, XGBoost, etc.), Bayesian Statistics, Causal Inference Modeling, Time Series Analysis, Multilevel Linear Modeling, Computational Modeling

## SELECT DATA SCIENCE EXPERIENCE

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**California Institute of Technology**

Pasadena, CA

*Data Scientist*

Aug 2022 - present

- Consulted with Activision Blizzard to evaluate player behavior for the Call of Duty Franchise
- Developed a robust time series, auto encoder, ML model to detect player data anomalies effectively and shared actionable insights with stakeholders shifting research focus to increase prosocial behaviors
- Designed on-going innovative A/B testing to increase prosocial in game behaviors
- Advised team on research design, statistical modeling, interpretation, and data visualization

**Harvard University**

Cambridge, MA

*Doctoral Researcher: Data Scientist*

Aug 2017 - May 2023

- Managed the strategic planning and execution of a quantitative research program with multiple stakeholders, yielding on-time results (7 publications, 30+ oral presentations)
- Translated findings and goals into stakeholder value securing 5 research grants and fellowships
- Designed and developed 20 interactive tasks in Python and JavaScript for data collection
- Built a data pipeline to collect and analyze over 15GB of data on risky decisions
- Forecasted risky decisions and emotions using custom ML models and statistical techniques
- Communicated findings to large audiences (100+) with and without technical backgrounds
- Supervised and mentored 11 professionals and created 9 standard operating procedures including GitHub best practices; taught courses in programming and Statistics

**California State University, Fullerton**

Fullerton, CA

*Researcher*

Jan 2015 - July 2017

- Constructed surveys and tested their Psychometric properties using Item Response Theory and evaluated their latent factors with Structural Equation Modeling using EQS
- Created a R package to improve interpretability and plot multiway interactions for regression
- Effectively taught graduate level Statistics courses (Advanced Statistics & Multivariate Statistics)

## RELEVANT WORK EXPERIENCE

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**Center for Research on Educational Access and Leadership (C-REAL)**

Fullerton, CA

*Statistician Lead*

Oct 2012 - Dec 2014

- Managed 4 projects evaluating their impact on student's academic experience and performance
- Spearheaded meetings; diagnosed and resolved data analysis and write-up issues officewise; presented results and data driven insights to stakeholders; led statistics workshops

## SELECT ADDITIONAL PROJECTS

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- Programmed a Flask based health tracker with MongoDB to store a variety of health related data and use it to predict my family's health outcomes