

# Jerson R. Cochancela

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## Education

### **Brown University**

Ph.D., Biostatistics, *expected* May 2023  
A.M., Biostatistics, May 2018

### **Stony Brook University**

M.S., Statistics, May 2016  
B.S., Mathematics, *Cum Laude*, August 2015

## Honors and Awards

### **Brown University**

Graduate Impact Award, May 2018  
Brown University Graduate Fellow, 2016-2018

### **Stony Brook University**

Graduate Scholarship, Spring 2015 - Spring 2016  
Dean's List, Fall 2013

## Experience

### **Biostatistics, Brown University**

Research Assistant, Fall 2018 - present  
Teaching Assistant, PHP 2610: Causal Inference, Fall 2021  
Teaching Assistant, PHP 2530: Bayesian Statistical Methods, Spring 2020  
Teaching Assistant, PHP 2550: Practical Data Analysis, Fall 2019  
Grader, PHP 2520: Statistical Inference I, Fall 2018  
Grader, PHP 2507: Biostatistics and Applied Data Analysis I, Fall 2016

### **Advanced Analytics, Johnson & Johnson**

Data Science Intern, Summer 2018

### **Childhood Asthma Research Program, Lifespan**

Research Intern, 2017-2018

### **Hassenfeld Child Health Innovation Institute, Brown University**

Summer Scholar, 2017

### **Mathematics, Stony Brook University**

Instructor, MAP 103: Mathematics Proficiency, Spring 2015-Summer 2016  
Instructor, MAT 125: Calculus A, Summer 2015  
Recitation Leader, MAT 125: Calculus A, Fall 2014

Experience **Applied Mathematics and Statistics, Stony Brook University**  
Instructor, AMS 311: Probability Theory, Summer 2016  
Instructor, AMS 310: Survey of Probability and Statistics, Winter/Summer 2016  
Teaching Assistant, AMS 310: Survey of Probability and Statistics, Spring 2014

**Residential Tutoring Centers, Stony Brook University**  
Mathematics Tutor, 2013-2015

University Service **Brown University**  
Biostatistics Department Diversity and Inclusion Committee, 2017-2019  
School of Public Health Diversity and Inclusion Committee, 2017-2019  
School of Public Health Curriculum Committee, 2017-2019

**Stony Brook University**  
Admitted Students Day Representative, Spring 2015

Projects **Center for Statistical Sciences, Brown University**  
Research Assistant  
Under Professor Roe Gutman, we develop causal inference theory within randomized clinical trial designs and apply it to the National Lung Screening Trial. We extend these methods to observational studies such as an Iatrogenic Delivery Study using a Bayesian framework. Our goal is to identify causal estimates typically under- or over- estimated by current methods.

**Advanced Analytics, Johnson & Johnson**  
Data Science Intern  
“CLS Anomaly”, Summer 2018  
*Prophet*, the Facebook Bayesian forecasting package, was refactored to detect anomalous purchases that could buy out medical device supplies. The aim was to build a machine learning algorithm that stops distributors from price gouging in the event of a natural disaster.

**Childhood Asthma Research Program, Lifespan**  
Research Intern  
“Neighborhoods and Asthma”, 2017-2018  
Geospatial data specific to Providence, RI, was used to examine whether neighborhood risk moderates the association between asthma and asthma related emergency room visits.

**Pulmonary & Intensive Care Translational Outcomes Research, Columbia University Medical Center**  
PICTOR Trainee  
“The Lung Allocation Score: Reassessing Waiting List Urgency”, Summer 2014  
Our objective was to determine factors predisposing patients to respiratory failure while awaiting lung transplantation.

Languages and Skills English (native), Spanish (fluent)  
R, SAS, Python, Julia, SQL, L<sup>A</sup>T<sub>E</sub>X