

## 1. Name (first and last)

**Text Response**

José Bayoán Santiago Calderón

**Statistic**

Total Responses	Value
1	

## 2. Email

**Text Response**

naoyabpr@gmail.com

**Statistic**

Total Responses	Value
1	

## 3. Contact Phone

**Text Response**

+1 787 604 2561

**Statistic**

Total Responses	Value
1	

#### 4. In Fall 2018 you will consider yourself to be a:

#	Answer	Bar	Response	%
1	VT Freshmen Undergraduate Student		0	0%
2	VT Sophomore Undergraduate Student		0	0%
3	VT Junior Undergraduate Student		0	0%
4	VT Senior Undergraduate Student		0	0%
5	Between Undergrad and Graduate school		0	0%
6	Graduate school		1	100%
	Total		1	

Statistic	Value
Min Value	6
Max Value	6
Mean	6.00
Variance	0.00
Standard Deviation	0.00
Total Responses	1

#### 5. What degree(s) and major(s) are you pursuing along with institution?

Text Response
Economics

  

Statistic	Value
Total Responses	1

**6. List any Minors you are pursuing.**

Text Response

Statistic

Total Responses

Value

0

**7. List any honors and/or awards received:**

Text Response

Statistic

Total Responses

Value

0

**8. Currently we have 1 program accepting applications which includes:**

#	Answer		Total Responses
15	Data Science for the Public Good	0	0
	Total	0	-

Statistic

Min Value

Max Value

Mean

Variance

Standard Deviation

Total Responses

Data Science for the Public Good

-

-

0.00

0.00

0.00

-

**9. Essay (up to 500 words): "What do you want to get out of this experience?"**

Text Response

I would like to eventually find myself in a position where I can work across disciplines in transdisciplinary projects. This experience would allow me to keep developing my skills and test out how I like that environment for future career options. In addition, I would like to grow my network outside my field (economics) and have access to others that can complement me and can help in developing new skills.

Statistic

Total Responses

Value

1

## 10. Essay (up to 500 words): "Please describe any previous research experience and/or work experience you may have."

### Text Response

I worked on several projects during my tenure at Res-Intel as a data scientist. One of the projects consisted in implementing Energy Star Portfolio Manager methodology for various utilities for both benchmarking and generating instruments for behavioral interventions. The data included millions of utility accounts which were stored in a secured server. During two years, I worked at the Center for Neuroeconomics Studies as a research assistant. As part of my tenure, I recruited, piloted, helped design (both the models and implementation), ran experiments, cleaned and analyzed data for various projects. In relation to previous and ongoing research, I am currently working on my dissertation which contributes to robust variance covariance estimators for generalized method of moments; particularly designing, evaluating, and selecting cluster robust estimators. One project which I would like to resume working on after my dissertation is an agent-based model for assessing learning with the presence of various types of recommender systems in multi-armed bandits problems. Many of the projects I have work on use a mixture of qualitative and quantitative methods including interviews, focus groups, surveys, laboratory experiments (including drugs and physiological measurements), and regression analysis.

Statistic	Value
Total Responses	1

## 11. Essay (up to 500 words): "Please describe your background (courses taken, research projects, etc.) in statistics and mathematics."

### Text Response

My specialization is in methodology. I have completed the math courses for doctoral studies in economics which typically include: probability and statistics, calculus, linear algebra, differential equations, and real analysis. I have also completed the econometrics series and have basic knowledge of time series, but specialize in applied microeconomics and longitudinal models. This formal training is complemented with an array of courses in various non-econometrics methods and machine learning. Other relevant courses include modeling courses such as behavioral economics (applications in microeconomics, macroeconomics, and public choice), agent-based modeling, and program evaluation.

Statistic	Value
Total Responses	1

## 12. Essay (up to 500 words): "Please describe your background (courses taken, research projects, etc.) in social and behavioral sciences."

### Text Response

My formal training is as an economist. My undergraduate studies included minors in mathematics, political science, French, and Chinese. In my graduate program, my specialization is political economy and public economics which allowed me to take courses such as: cost benefit analysis, program evaluation, and behavioral public choice. I favor interdisciplinary research in both formation and practice which has led me to study behavioral economics (psychology and neuroscience), political economy (political science), and computational economics (computer science). Some projects that relate to the social and behavioral sciences include: policing (discrimination in stop and frisk policy), tax evasion in sales and use tax, and clarity of laws as an institution relating to judicial activity.

Statistic	Value
Total Responses	1

## 13. Essay (up to 500 words): "Please describe your background in programming."

### Text Response

I started programming during my first semester in the doctoral program. A friend had recommended me to learn R during the summer and I started taking the John Hopkins University Data Science Specialization which was taught using R. After using R for various endeavors, I decided to learn programming more formally as a way to move from coding to programming. I took the Rice University Foundations of Computing (Python) specialization which helped with some formal training. Since most of the programming I do relates to data science and machine learning, I also completed other courses relating to machine learning using Matlab and Python (Stanford University course and University of Washington Machine Learning specialization). I am a contributor for the Julia ecosystem working on the JuliaStats environment and developing a few econometrics packages. Most of my work is in Jupyter languages (Julia, Python, and R). In some instances for applied work, I may use additional software options such as Matlab and Stata. Depending on the project, additional tools may have been employed such as ESRI ArcPro / ArcMap (geographic information system), NetLogo (agent-based modeling), SQL or basic Hadoop. For markup languages, I use HTML5/CSS3 and some javascript or markdown, but most of the time I work with LaTeX. I am also proficient in natural language processing, web scrapping, and data wrangling.

Statistic	Value
Total Responses	1

**14. Essay (up to 500 words): "Please provide information about other significant courses you have taken within your field of study."**

Text Response

Statistic

Total Responses

Value

0

**15. Please list the name and contact information for 2 references (teachers, mentors, or employers) that we will contact for a letter of reference/brief survey. Please make sure you list the correct email and they know we will be contacting them soon (within the next week). Only 2 references will be contacted; do not list more than 2.**

Text Response

Tom.Kniesner@cgu.edu, Joshua.Tasoff@cgu.edu

Statistic

Total Responses

Value

1