

## 1. Name (first and last)

Text Response

Troyana Benjamin

Statistic

Value

Total Responses

1

## 2. Email

Text Response

trb78@georgetown.edu

Statistic

Value

Total Responses

1

## 3. Contact Phone

Text Response

(301)332-5578

Statistic

Value

Total Responses

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	
Master's Degree in Mathematics and Statistics	
Statistic	Value
Total Responses	1

6. List any Minors you are pursuing.

Text Response

Statistic

Value

Total Responses

0

7. List any honors and/or awards received:

Text Response

Public Health Honors and General University Honors from Johns Hopkins University

Statistic

Value

Total Responses

1

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	Data Science for the Public Good
Min Value	-
Max Value	-
Mean	0.00
Variance	0.00
Standard Deviation	0.00
Total Responses	-

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

Text Response

After earning a bachelor's degree in Public Health Studies from Johns Hopkins University, I developed a strong desire to make an impact on the public by utilizing mathematical and statistical methods to inform companies and policymakers. As a master's student at Georgetown University studying mathematics and statistics, I am seeking ways to blend my undergraduate background with the statistical tools I am learning currently. The Data Science for the Public Good (DSPG) program appears to be a meaningful summer internship that would allow me to put into practice what I am learning in my master's program. More importantly, the projects offered through the DSPG program have a real impact on people's lives. Furthermore, the opportunity to work with other passionate colleagues and experienced professionals can provide an impactful learning experience that goes beyond what the traditional classroom provides.

Statistic

Value

Total Responses

1

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

Text Response	
As an undergraduate I participated in three different research projects, one of which is a published article in the American Journal of Men's Health. Additionally, I worked as a research assistant for two years in the Department of Health Policy and Management at the Johns Hopkins Bloomberg School of Public Health. As a research assistant I participated in a study called Baltimore CONNECT which provided select Baltimore community-based organizations with access electronic health tools and to also fostered communication and connections with Johns Hopkins Hospital and healthcare practitioners. The premise of this study is that community-based organizations often aid in social determinants of health and had pre-existing relationships within the Baltimore community that could be enhanced through easier access to healthcare providers. During my Senior year, I used secondary data from surveys taken during the Baltimore CONNECT study to write my senior thesis on how the community-based organizations utilized the e-health tools throughout the course of the study and what impact that may have had on the community. While working as a research assistant and conducting my independent senior thesis, I helped co-author the research article "The Association Between Marijuana Usage and Discrimination among Adult Black Men" with two former professors Dr. Lauren Parker and Dr. Roland Thorpe Jr. This paper was published in the American Journal of Men's Health and uses logistic regression analyses of The National Survey of American Life to assess the odds of marijuana use as a coping mechanism among adult Black men who experienced different types of discrimination. Lastly, after graduating college, I participated in the 2016 Baltimore HIV/AIDS Scholars Program and presented a project that used the Indiana Black Men's Health Study to determine whether there were any differences in health behaviors, health conditions, and health care access among African American men who engaged in risk factors associated with HIV/AIDS compared to those who did not.	
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	
At the undergraduate level I took Calculus I, Calculus II, Calculus III, Linear Algebra, Introduction to Biostatistics, Epidemiology. As an undergraduate, students majoring in Public Health Studies at Johns Hopkins University were required to take at least 15 undergraduate credit hours at the graduate level through the Johns Hopkins Bloomberg School of Public Health in an approved concentration. To satisfy my degree requirements, I concentrated in Biostatistics and took Statistical Methods in Public Health I, Statistical Methods in Public Health II, Statistical Methods in Public Health III, and Statistical Methods in Public Health IV (the equivalent of 20 graduate school credits and 16 undergraduate credits). I began my graduate school education in the fall of 2017 and successfully completed Probability Theory/Application, Deterministic Math Models, and Mathematical/Statistical Computing. Currently, I am taking Mathematical Statistics, Numerical Methods, and Numerical Optimization.	
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	
The social and behavioral sciences courses I have taken were all at the undergraduate level and include: Introduction to Sociology, Fundamentals of Health Policy and Management, Clinical and Public Health Behavior Change, Health Disparities and the Role of Place, Introduction to Social Psychology, Sociology of Health and Illness, and Complex Humanitarian Emergencies. Apart from the aforementioned research assistant position with the Department of Health Policy and Management at Bloomberg School of Public Health and the independent Senior Thesis completed from that, I do not have any additional research experience in the social and behavioral sciences.	
Statistic	Value
Total Responses	1

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

Text Response	
Prior to beginning my graduate school program, I learned Stata in the courses I took at Johns Hopkins Bloomberg School of Public Health and I used Stata to analyze the data for my senior thesis as well as the 2016 Baltimore HIV/AIDS Scholars Program. Last semester, at Georgetown University, I took Mathematical/Statistical Computing which introduced Python, R Studio and SQL. Additionally, in Deterministic Math Models I became introduced to MATLAB. Currently, the Numerical Methods course I am currently taking is furthering my R Studio programming knowledge.	
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

Within my current field of study, I found Probability Theory/Application to be a very critical course to understanding the fundamental methods which one can learn statistics and apply it to real-world data. I recall the first lecture of this course the professor drew a diagram that explained how we are given a real-world problem, we translate it into a math-world problem, then we solve the problem to get a math-world solution and finally we are tasked with translating that solution back into the real-world in some meaningful, but most importantly, accurate way. At each stage in the process, something can go wrong; however, by understanding the mathematical and statistical practices as well as the limitations of those practices, we can avoid making inaccurate conclusions when applying our findings to the real-world.

Statistic

Value

Total Responses

1

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

Ken Shaw (jks49@georgetown.edu) and Jennifer Liang (jm2741@georgetown.edu)

Statistic

Value

Total Responses

1