

## 1. Name (first and last)

**Text Response**

Precious Gift Abayesu

**Statistic**

Total Responses	Value
1	

## 2. Email

**Text Response**

Abayesu

**Statistic**

Total Responses	Value
1	

## 3. Contact Phone

**Text Response**

9712951210

**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		1	100%
5	Between Undergrad and Graduate school		0	0%
6	Graduate school		0	0%
	Total		1	

Statistic	Value
Min Value	4
Max Value	4
Mean	4.00
Variance	0.00
Standard Deviation	0.00
Total Responses	1

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

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

Text Response

Actuarial Science

Statistic

Total Responses

Value

1

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

Text Response

N/A

Statistic

Total Responses

Value

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

Pursuing Statistics has opened my eyes to the power of data, from its collection all the way to its feedback. What I want to get out of this experience, is the ability to determine what is happening in a particular community or service, and predict further outcomes as accurately as possible. The most remarkable thing I found about data is the insight it brings alongside its predictions and the closer it gets us to change our world, for the better. Last year, meteorologists had to predict hurricanes like Harvey, determine their levels, and the intensity of their aftermath, in order to alert communities. Data analysis is essential in all fields, and for me, it was through learning about the social impacts made from data analysis, that I realized the type of data I wanted to work with; that which made a more direct impact on society. I found out about the Social and Data Analytics Laboratory(SDAL) while looking into research programs. It really stood out to me because this particular research program actually targeted social sciences, which deals with my very interest in research. Several times I have gone back to the site just to look at the different research projects carried out and it's really drawn me into this program. The SDAL's Data Science for the Public Good program(DSPG) is a really exciting program that I would like to be a part of. It would not only be an opportunity to analyze data given, but also an opportunity to use real life data. Also, an incredible experience I would acquire from this program, is the ability to look at the data and ask the right questions, overtime, instead of wasting time tackling what is irrelevant. This would also build my critical thinking skills in the process. While looking at the different SDAL's research projects including those from the DSPG, I kept being amazed at the neat models, alluring visualizations and finally the professional outlook throughout the posters. In and out of my classes, I have worked on several statistical projects but looking at the ones done within the SDAL made me want to demonstrate research insights in way that is just as lively. The DSPG has various collaborators like the National Science Foundation (NSF), the Terrestrial Robotics Engineering & Controls (TREC) Lab, and the US Army Research Institute for Social and Behavioral Research, among many, that demonstrate the level of diversity in the different research projects undertaken. An interesting lesson to come out with from this program, would be the ability to carry out different research projects which would always open me up to novel ways of thinking.

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

In the summer of 2017, I had the opportunity to work with a company called Simple Energy, in Boulder, Colorado. Simple Energy is a company dedicated to making energy more efficient, by calculating energy savings with different utility companies that inform their clients on the different possible ways to do so as well. I worked as a Data Science intern on the company's engineering team, while also partnering with other teams like marketing. My work involved data analysis and revising energy savings formulas. One of the projects I worked on involved determining what clients were unsubscribing from Simple Energy services. It was also during this project that I partnered with the marketing team to come up with a conclusion as to which variables were significantly impacting such decisions. Since Simple Energy works with top tier utility companies, which gave me an opportunity to deal with different individual datasets from Georgia Power, Xcel Energy, Yes Energy, Central Hudson, ComEd and Gulf Energy. Most data were not as organized, which made me not just improve my skills in analysis, but also in data cleaning. Another crucial project I worked on involved creating energy efficient models for clients, based on the states they live in. Since Simple Energy's utility companies aren't located only in Colorado, I had to find the energy savings manuals of the different states our clients resided in, and incorporate our savings based off them. Since they varied due to different state policies, this also required me to calculate energy savings from the previous year to the current one, since there was often an annual energy savings manual to reconsider, and therefore a new formula or model to be altered or created. This internship gave me a lot of critical thinking and statistical problem-solving opportunities. Before working at Simple Energy, I had only learned how to analyze data, briefly. After moving to Colorado for the summer, I learned that the hardest part about working with data can be less the analysis part, and more the cleaning one. My supervisor, Simple Energy's Data Scientist and Statistician was very helpful in pushing, encouraging and mentoring me into this technical field. She was always more than willing to share her data knowledge so that the models I created were flawless. While I often worked independently on all projects unless my work was being reviewed, instances where my supervisor would check on my work and give me more insight, made me a team player. This internship not only gave me the opportunity to clean and analyze data, but also to interpret and create different models, as well as visualize them. It also taught me to dig deeper if I question any of the models or results, because that's how I ended up grasping more of the statistical concepts I'd learned theoretically, since I was now applying and visualizing them with real data. Among the many statistical courses I took, like Statistical Methods, Experiments of Design and Methods of Regression are the ones I found most beneficial in this internship. A course I took later on that has also built my skills in visualization and using statistical software like R, has been Introduction to Data Visualization.

## Statistic

Total Responses

## Value

1

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

## Text Response

In the summer of 2017, I had the opportunity to work with a company called Simple Energy, in Boulder, Colorado. Simple Energy is a company dedicated to making energy more efficient, by calculating energy savings with different utility companies that inform their clients on the different possible ways to do so as well. I worked as a Data Science intern on the company's engineering team, while also partnering with other teams like marketing. My work involved data analysis and revising energy savings formulas. One of the projects I worked on involved determining what clients were unsubscribing from Simple Energy services. It was also during this project that I partnered with the marketing team to come up with a conclusion as to which variables were significantly impacting such decisions. Since Simple Energy works with top tier utility companies, which gave me an opportunity to deal with different individual datasets from Georgia Power, Xcel Energy, Yes Energy, Central Hudson, ComEd and Gulf Energy. Most data were not as organized, which made me not just improve my skills in analysis, but also in data cleaning. Another crucial project I worked on involved creating energy efficient models for clients, based on the states they live in. Since Simple Energy's utility companies aren't located only in Colorado, I had to find the energy savings manuals of the different states our clients resided in, and incorporate our savings based off them. Since they varied due to different state policies, this also required me to calculate energy savings from the previous year to the current one, since there was often an annual energy savings manual to reconsider, and therefore a new formula or model to be altered or created. This internship gave me a lot of critical thinking and statistical problem-solving opportunities. Before working at Simple Energy, I had only learned how to analyze data, briefly. After moving to Colorado for the summer, I learned that the hardest part about working with data can be less the analysis part, and more the cleaning one. My supervisor, Simple Energy's Data Scientist and Statistician was very helpful in pushing, encouraging and mentoring me into this technical field. She was always more than willing to share her data knowledge so that the models I created were flawless. While I often worked independently on all projects unless my work was being reviewed, instances where my supervisor would check on my work and give me more insight, made me a team player. This internship not only gave me the opportunity to clean and analyze data, but also to interpret and create different models, as well as visualize them. It also taught me to dig deeper if I question any of the models or results, because that's how I ended up grasping more of the statistical concepts I'd learned theoretically, since I was now applying and visualizing them with real data. Among the many statistical courses I took, like Statistical Methods, Experiments of Design and Methods of Regression are the ones I found most beneficial in this internship. A course I took later on that has also built my skills in visualization and using statistical software like R, has been Introduction to Data Visualization.

## Statistic

Total Responses

## Value

1

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

## Text Response

N/A

## Statistic

Total Responses

## Value

1

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

## Text Response

SQL, Python, R, JMP, Microsoft Office, SAS

## Statistic

Total Responses

## Value

1

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

## Text Response

Methods of Regression, Theoretical Statistics, Experimental Designs, Statistical Methods, Communication in Statistical Collaboration, Introduction to Data Visualization

## Statistic

Total Responses

## Value

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**

Dr. Anne Driscoll: adriscoll@vt.edu , Charlotte Parks: crobrtz@vt.edu

**Statistic**

Total Responses

**Value**

1