Initial Report

1. Name (first and last)

Text Response
Uyeong Yang

Statistic	Value
Total Responses	1

2. Email

Text Response
u_yang@uncg.edu

Statistic	Value
Total Responses	1

3. Contact Phone

Text Response
9197719260

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
M.A in Applied Economics

Statistic	Value
Total Responses	1

6. List any Minors you are pursuing.

Text Response
N/A

Statistic	Value
Total Responses	1

7. List any honors and/or awards received:

Text Response
I graduated with Summa Cum Laude and have received a couple of fellowships at my school.

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	1	1
	Total	1	-

Statistic	Data Science for the Public Good
Min Value	1
Max Value	1
Mean	1.00
Variance	0.00
Standard Deviation	0.00
Total Responses	1

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

Text Response

From an internship with the Data Science for the Public Good program (DSPG), I hope to collaboratively create a better solution to real world problems through economics-based empirical research and quantitative analysis, and also to gain the work experience that will help me transition from school to career. I would like to use this opportunity to better prepare myself for becoming a research economist by improving my ability for doing economics-based empirical research and developing a better quantitative method for utilizing public goods. Firstly, the outcome I most anticipate is learning how to conduct and analyze economics-based empirical research, in order to develop a better method for using public goods. My background expertise in economics has assisted me in understanding the causes of how the world functions socio-economically and in developing ideas how it should function ideally. I would like to apply these knowledges into practice and contribute to design a better method from an economics perspective to allocate public goods for society. I also want to develop my computational data analytical skills by being exposed to real data. Although I have worked with several datasets throughout my statistics and econometrics courses and independent research, I never had a chance to work with a wild raw data. I look forward to solving analytical problems, provided complex, high-volume and high-dimensionality data from varying sources. I believe the experience of solving problems in quantitative approaches will help me better prepare myself for quantitative works, so I am excited to do so. Secondly, I want to use this opportunity to transit from school to career. I have been involved in many teamwork projects in class and conducted research with faculty members, but not outside of academia. This program will give me first-hand knowledge and experience in the real working environment. I look forward to interacting with my cohorts of the program and advisers at the lab. In addition, I hope to have a chance to work with people from different backgrounds and look at problems with diverse perspectives to come up with a well-rounded solution. I think such collaboration will eventually improve my ability to communicate complex quantitative analysis in a clear, precise, and actional manner with people of different backgrounds. Finally, I hope to become a valuable asset to the DSPG program and contribute to the successful operation of projects, which will ultimately lead society towards a better direction. Upon the completion of the program, I would like to have gained a broad perspective of how to allocate public resources with the aim of maximizing the satisfaction of society members and to be one step closer toward becoming a quantitative research economist.

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

I worked as a Research Assistant to Dr. Albert Link at the University of North Carolina at Greensboro on his research about the economics of University Science Parks. I expanded his research to a more global scale by collecting data of University Research Parks in South Korea, analyzed what contributes to the growth of them, and estimated its growth rate by taking into account cultural, socio-political, and geographical characters of South Korea. We wrote a paper titled, "On the growth of Korean techno-parks" and our paper was accepted for publication by the International Entrepreneurship and Management Journal. I also conducted independent undergraduate research with the help of Dr. Kenneth Snowden at the University of North Carolina at Greensboro on the topic of expected benefits and costs of potentially unifying the Korean monetary system of the North and South based on Optimal Currency theory. I investigated the feasibility of the Korean monetary union, comparing it to the German case and presented in the International Undergraduate Research conference, which was held simultaneously at the University of Warwick in the UK and Monash University in South Africa. Only work experience I have is to serve as a squad leader in the Republic of Korea Army. I led the squad of eight duty men after serving as an ordinary squad member for ten months by demonstrating trained leadership, providing a training session, and coordinating with a platoon commander. I executed a military operation in the demilitarized zone, so called the DMZ, to carry out an order of protecting the territory against a threat of North Korea. I received the Division Commander Prize and the Battalion Commander Prize when I discharged from the duty.

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

For mathematics, I have taken sequential courses of Calculus, Linear Algebra, Differential Equation, an undergraduate level Introduction to Mathematical Analysis, and a graduate level Mathematical Analysis. In addition, I am auditing Numerical Methods this semester. For statistics, I have taken Statistical Methods, Theory of Linear Regression, and I am attending the Theory of Time Series for graduate students this semester. In addition, I took the online course of Introduction to Probability offered by an open online course provider edX. I have been involved in a couple of team projects throughout my statistics coursework and currently, this semester in my Time Series course, I am conducting a project of forecasting the impact of minimum wage increase on local economy.

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

For my undergraduate studies, I have taken Principles of Microeconomics and Macroeconomics, Intermediate Microeconomic and Macroeconomic Theory, sequential courses of Statistics for Economics, International Economy, Sports Economics, Money and Banking, and Labor Economics Seminar. For graduate course works, I have taken Mathematical Economics, Microeconomics 1, and Econometric Methods. I am taking Microeconomics 2, which is mostly about game theory and market failure, Macroeconomics, Econometric Theory, and Applied Policy Methods this semester. In Applied Policy Methods course, I am learning about economics-based policy analysis and empirical cost-benefit analysis methods to conduct program evaluation.

Statistic	Value
Total Responses	1

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

Text Response

I have used SAS for my economics course work, and I also have self-studied STATA using the book titled Microeconometrics Using Stata written by Cameron. For my statistics coursework, I have used mostly R, with which I am most confident. I can conduct fundamental data programming, regression analysis with SAS, STATA, and R, and time series forecasting with R. In addition to my formal coursework, I attended a summer statistics methods workshop hosted at Korea University to improve my SAS and R skills, from which I learned data cleaning methods and fundamental statistical skills for doing social science research. I am currently broadening my knowledge of using R for data visualization and manipulation, as well as familiarizing myself with machine learning by following an online interactive course at Datacamp.

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

During my undergraduate studies, I learned how to use SQL to manage databases and gained an experience of utilizing them for analytic purposes throughout my information systems courses. I am currently refreshing my knowledge of using SQL by following an online interactive course at Datacamp.

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

1) Al Link, anlink@uncg.edu 2) Martyn Van Hasselt, mnvanhas@uncg.edu

Statistic	Value
Total Responses	1