

1. Name (first and last)

Text Response

Linh Pham

Statistic

Value

Total Responses

1

2. Email

Text Response

ltp28@georgetown.edu

Statistic

Value

Total Responses

1

3. Contact Phone

Text Response

Statistic

Value

Total Responses

0

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
MSc 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

Georgetown University, Departmental Merit Based Scholarship Bard College, Distinguished Scientist Full Tuition Scholarship (four years) and Departmental Best Student Award ("Book Award") Selected to attend 2-week program for women in mathematics, Institute for Advanced Study, Princeton (2014) Selected to attend 3-week program for mathematics, Park City Mathematics Institute, Park City, Utah (2014)

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

I hope to learn about different industries that I work on after graduate from Georgetown University. I would like to see how my knowledge can be applied in solving different problems of our community. The internship will provide me insights about real-world problems that I work on. I believe that having knowledge about a specific field is necessary for a data scientist to find and present a meaningful information. Through experience at SDAL, I hope to gain insights that I can apply to my future work. I see the internship is an opportunity for me to find a path to my career future. I would like to learn new techniques and tools in data science. I believe that the internship is a chance for me to learn new advance knowledge about mathematics, statistics and data science. Through the hands-on project, I would gain experience about what mathematical/ statistical topics and materials that are widely used in policy making research. I am also excited about sharpening my programming skills in Python and R, and learning other useful software language for data science. I expect to learn more about team working through experience at SDAL. I would like to see how groups of different specialties work together to solve one problem. I plan to improve my communication skill through meetings and conversations with other teammates. I believe in learning from other's valuable experience, so I hope that I can expand my network and lasting relationship with colleagues and experts.

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

After graduated from Bard College in 2014, I joined The Green Neuroscience Laboratory. There, I learned a lot about programming and wavelet analysis. During a year at the lab, I finished writing a Python cross-platform GUI tool to analyze brainwave using wavelet analysis. In late 2015, I moved back to my home country, Vietnam. I worked at Paymentwall Inc. as a risk data analyst. My main work was performing statistical analysis on credit card transaction data extracted from MySQL to determine fraud patterns using Python. I prepared daily report and coordinated with optimization team to decide the most suitable threshold for the algorithms flagging potentially fraud transaction. My team got succeeded in bringing the fraudulent rate from 4% to 1% in market of yearly \$1.2+M. Before enrolling in master program in mathematics and statistics at Georgetown University in 2017, I was working at Vinmec Health Care System. There, I had a chance to learn more about hospital settings, health care industry and genetic testing. I joined an autism research team as a data analyst. My daily work included: (1) interviewed patients' families to collect medical history and to write monthly report, and (2) performed genetic variant analysis from microarray data of 100 autistic children and parents using Cytogenomics and biomedical databases. Our preliminary result suggests that microarray test has 15% diagnostic yield.

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 Bard College, besides core courses like calculus, linear algebra, I mostly took pure math courses including: combinatorics, probability, abstract algebra, real analysis, functional analysis, complex theory, topology. In master program at Georgetown University, I am focusing on applied mathematics and statistics. By summer 2018, I will have finished the following courses: Mathematical/Statistical Computing, Deterministic Math Models, Probability Theory/Application, Financial Mathematics, Introduction Statistical Learning, and Mathematical Statistics

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

At Bard College, I took introduction to microeconomics and Chinese environmental History. At Georgetown University, my financial mathematics also mentioned about market behavior.

Statistic

Value

Total Responses

1

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

Text Response

I took an objected programming course when I was at Bard College. However, my knowledge about Python was mostly gained when I was at the green neuroscience laboratory and at Paymentwal Inc. Extracted credit card transaction data from SQL database, then used Python (Pandas) to analyze the data. I wrote R script automatically generating and saving qqplot, residual vs fitted plot, and numerical results on research how particle pollution affects human DNA methylation. Currently, I am studying machine learning techniques on R. Besides it, I also experienced with Matlab, Mathematica, LaTeX, and Microsoft Office Suite.

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

I like learning languages. I took French, Hebrew when I was at undergraduate at Bard College. I also learned a Hungarian when I was an exchange student in Budapest

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

Professor Ken Shaw: jks49@georgetown.edu Dr. Stuart Price: Stuart.Price@georgetown.edu/stp42@georgetown.edu

Statistic

Value

Total Responses

1