DSPG 2020 Young Scholars Intake Survey

Start of Block: General information

Q1.1

Welcome to the Data Science for the Public Good program. As the program begins, we'd like to understand your expectations and experiences coming into the program. We anticipate the survey will take 10-15 minutes to complete, depending on the amount of detail you provide in response to the open-ended questions.

This information is being collected for program evaluation purposes. Some of the questions will ask for individuating information (e.g., your university, whether you are a Fellow or an Intern) in order to tailor questions to your personal experience. However, your results will be anonymous. Your names will not be kept with the data and will be replaced with an ID code. Data will only be reported as aggregates. If you do not feel comfortable sharing particular information, you do not have to answer a question.

If you have any questions regarding this survey or how your information will be used, please contact Joel Thurston at jt9sz@virginia.edu.
Q1.2 To begin, we'll collect some general information about you that can be used to tailor later sections and surveys to your specific DSPG experience.

Q1.3 What university are you participating in the DSPG program with?
O IA (1)
OR (2)
O UVA (3)
O VSU (4)
○ VT (5)
Q1.4 Are you a Fellow or an Intern?
O Fellow (1)
O Intern (2)
Display This Question: If What university are you participating in the DSPG program with? = UVA
Q1.5 What is your UVA sponsored email account?
Display This Question: If What university are you participating in the DSPG program with? != UVA
Q44 What email account are you using as your primary point of contact for this program?
Q1.6 How did you find out about the DSPG program (e.g., listserve announcement, personal recommendation)?

Start of Block: Professional Career Interests

Q2.1	This	secti	on co	vers y	our pro	ofessio	nal and	d caree	r interests	as it rel	ates to d	ata scier	nce and
publ	ic ser	vice.											

Q2.2 Indicate the degree to which you agree with each of the following statements:

	Strongly agree (1)	Somewhat agree (2)	Somewhat disagree (3)	Strongly disagree (4)
I am interested in pursuing a career related to data science. (1)	0	0	0	0
I am interested in pursuing a career related in the public sector (e.g., government service at the national, state, or local level).	0		0	
I am interested in pursuing a career related to community service (e.g., working with a non-profit or NGO). (3)	0		0	
I am interested in pursuing a career in a field with impact on rural America (e.g., agricultural or land use policy, opioid use). (4)	0	0	0	0

Q2.3 How do you believe participating in the DSPG program will affect your profession career goals?	nal and
End of Block: Professional Career Interests	
Q3.1 This section covers the technical and professional skills that you would like to de through the DSPG program.	velop
Q3.2 What are two technical skills that you are interested in acquiring through the DS program?	SPG
Technical skill 1 (1)	
C Technical skill 2 (2)	
Q3.3 What were two professional skills that you are interested in acquiring through the program?	ne DSPG
O Professional skill 1 (1)	
O Professional skill 2 (2)	

f Block: Skill Development Goals	
of Block: Additional thoughts	
program at this time.	

DSPG 2020 Young Scholars Training and Team Science 1

Start of Block: General Information
Q1.1 As part of the three-state Data Science for the Public Good program, we are interested in gathering feedback about your experiences. This survey is designed to gather information about the training and brownbag sessions that you have participated in, any special events you may have attended as part of the program (e.g., DSPG Distinguished Speaker Series, and how your university and/or project teams are functioning within a team science context. Your input is crucial for helping us refine the program as we look toward expanding to include more state and university partners in the future. The survey is voluntary. This information is being collected for program evaluation purposes. Some of the questions will ask for individuating information (e.g., your university) in order to tailor questions to your personal experience. However, your results will be anonymous. Personally identifiable information will not be kept with the data and will be replaced with an ID code. Data will only be reported as aggregates. If you do not feel comfortable sharing particular information, you do not have to answer a question. If you have any questions regarding this survey or how your information will be used, please contact Joel Thurston at jt9sz@virginia.edu.
Q1.2 To begin, we'll collect some general information about you that can be used to tailor later sections and surveys to your specific DSPG experience.
Q1.3 What university are you participating in the DSPG program with?

O IA (1)

OR (2)

O UVA (3)

O VSU (4)

O VT (5)

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Q1.4 Are you a Fellow or an Intern?	
○ Fellow (1)	
O Intern (2)	
Display This Question:	
If What university are you participating in the DSPG program with? = UVA	
Q1.5 What is your UVA sponsored email account?	
Display This Question:	
If What university are you participating in the DSPG program with? != UVA	
Q1.6 What email account are you using as your primary point of contact for	this program?
Q1.7 How would rate your overall experience in the DSPG training thus far?	,
Excellent (1)	
○ Good (2)	
O Average (3)	
O Poor (4)	

Q90 To what degree does your experience in the DSPG training meet your expectations?
C Exceeds expectations (1)
O Equals expectations (2)
O Below expectations (3)
Q1.8 What is something new that you have learned?
Q1.9 What suggestions do you have on how we can improve the DSPG training?
·
End of Block: General Information
Start of Block: Training & Seminars
Q2.1 This section covers the training, seminars, brown bags, and other sessions you participated in during the program.

Q2.2 Listed below are the technical training sessions that you participated in during the week of June 1 to June 5. Please indicate how useful each of these training sessions was overall.

	Very useful (1)	Moderately useful (2)	Slightly useful (3)	Not useful (4)	Did not attend (5)
Data Security & DSPG Platforms (GitHub, Teams, Rivanna) (Aaron Schroeder, Joel Thurston, Bayoán Calderón) (1)	0	0	0	0	0
CLD3 & the Data Science Process (Sallie Keller, Cass Dorius, Mike Lambur) (3)	0	0	0	0	0
Data Discovery Process: Inventory & Screening (Cass Dorius) (4)	0	0	0	0	0
Literature Reviews (Teja Pristavec) (5)	0	0	0	0	0
Naming & Coding Standards (Joel Thurston) (6)	0	0	\circ	\circ	0
Git & GitHub (Devika Nair, Bayoán Calderón) (7)	0	0	0	0	\circ

Vectors: Strings, Factors, Numerics & DateTimes (Bayoán Calderón) (8)	0	0	0	0	0
Manipulating data & Joining Tables (Aaron Schroeder) (9)	0				0

Q139 Listed below are the technical training sessions that you participated in during the week of June 8 to June 12. Please indicate how useful each of these training sessions was overall.

	Very useful (1)	Moderately useful (2)	Slightly useful (3)	Not useful (4)	Did not attend (5)
R (base) Graphics: boxplots, histograms, etc. (Ford Ramsey) (1)	0	0	0	0	0
Research Ethics (Sallie Keller, Stephanie Shipp) (3)	0	0	0	0	0
Data Ingestion: Web Scraping: HTML/CSS/JS (Bayoán Calderón) (4)	0	0		0	0
Data Ingestion: Web Scraping: API (Bayoán Calderón) (5)	0	0	0	0	0
Exploratory Data Analysis with ggplot2 (Josh Goldstein) (6)	0	0	\circ	0	0

Q88 Listed below are the technical training sessions that you participated in during the week of June 15 to June 19. Please indicate how useful each of these training sessions was overall.

	Very useful (1)	Moderately useful (2)	Slightly useful (3)	Not useful (4)	Did not attend (5)
ACS/Census/Federal Data Training (Teja Pristavec) (1)	0	0	0	0	0
Identifying Issues of Structure (Aaron Schroeder) (3)	0	0	\circ	0	0
R Regular Expressions (Regex) (Teja Pristavec) (4)	0	0	\circ	0	0
Text Mining (Devika Nair) (5)	0	\circ	\circ	\circ	\circ
Restructuring, Cleaning, & Transformation (Todd Abraham) (6)	0	0	0	0	0
Deduplication & Joining (Todd Abraham) (7)	0	\circ	0	0	\circ

Q89 Listed below are the technical training sessions that you participated in during the week of June 22 to June 26. Please indicate how useful each of these training sessions was overall.

	Very useful (1)	Moderately useful (2)	Slightly useful (3)	Not useful (4)	Did not attend (5)
Foundational Statistics (Heike Hofmann) (1)	0	0	0	0	0
Scale Creation (Todd Abraham) (3)	0	0	0	0	0
Using python in R (Neil Alexander) (4)	0	0	0	0	0
Working with a dedicated GIS: QGIS (Chris Seeger) (5)	0	0	0	0	0
Geospatial Analysis in R (Aaron Schroeder) (6)	0	0	0	0	0
,					

Q2.3 Listed below are the brown bags presentations that have occurred during the program.
Please indicate how useful the session was overall.

	Very useful (1)	Moderately useful (2)	Slightly useful (3)	Not useful (4)	Did not attend (5)
Team Science in a Virtual World (Rachel Voas) (1)	0	0	0	0	0
Cooperative Extension System (Mike Lambur, Lindsey Shirley, Chad) (2)			0	0	0
nd of Block: Tra	ining & Semi	nars			
tart of Block: We	eekly Activitie	25			
Display This Questic	on:	cipating in the DSI	PG program with	? = UVA	
Display This Question If What university Q3.1 In this section ne program.	on: ty are you partion	cipating in the DSI	weekly activities		ipate in during
Display This Question If What university Q3.1 In this section ne program.	on: ty are you partion	sked about the v	weekly activities y activities? rately Sli		
If What university 23.1 In this section ne program.	on: ty are you partice n you will be a o you find the	sked about the v	weekly activities y activities? rately Sli	s that you partic	
Display This Question If What university Q3.1 In this section he program. Q3.2 How useful description of the program of the	on: ty are you partice n you will be a o you find the	sked about the v	weekly activities y activities? rately Sli	s that you partic	Not useful (4)

	Too often (1)	Just right (2)	Not enough (3)
Preview meetings (1)	0	\circ	\circ
Project code merge meetings (2)	0	0	\circ
Friday wrap-up meetings (3)	0	\circ	0
ability to complete your p		• •	
ability to complete your p		• •	
ability to complete your p	rojects. Select the amo	unt you feel best corres	ponds to each
ability to complete your p component.	rojects. Select the amo	unt you feel best corres	ponds to each
ability to complete your p component. Project workload (1)	rojects. Select the amo	unt you feel best corres	ponds to each
ebility to complete your promponent. Project workload (1) Project team size (2) Project meetings (3)	Too much (1)	unt you feel best corres	ponds to each
Project team size (2)	Too much (1)	unt you feel best corres	ponds to each

Q4.2 Please rate the quality of each event.					
	Excellent (1)	Good (2)	Average (3) Poor (4)	Did not attend (5)
DSPG Distinguished Speaker Mark Hansen (Columbia) (1)	0	0			
End of Block: S	pecial Events				
Start of Block:	Team Science b	y University			
Q5.1 In this sect functioning.	ion you will be as	ked about the	\${Q1.3/Choi	ceGroup/Selected(Choices} team's
Q5.2 Please rate	e the \${Q1.3/Cho	-	ectedChoices} od (2)	team's ability to: Average (3)	Poor (4)
Function effectively as a interdisciplinar team (1)			0	0	0
Treat all team members as colleagues (2)			\circ	0	\circ
Ensure that al					
team members preferences ar considered who working togeth (3)	e en O		0	0	0

Q91 Please rate the $\{Q1.3/ChoiceGroup/SelectedChoices\}$ team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Handle disagreements effectively (1)	0	0	0	0
Address issues succinctly in team meetings (2)	0	0	0	0
Ensure all team members actively participate in team meetings (3)		0	0	0
Adjust individual's approaches to support the team goals (4)	0	0	0	0

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Q92 Please rate the ${Q1.3/ChoiceGroup/SelectedChoices}$ team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Develop strategies that help the team attain research goals (1)	0	0	0	0
Raise appropriate issues at team meetings (2)	\circ	0	0	0
Recognize when the team is not functioning well (3)	\circ	0	\circ	0
Intervene effectively to improve team functioning (4)	\circ	0	0	0
'				

Q93 Please rate the \${Q1.3/ChoiceGroup/SelectedChoices} team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Help draw out team members who are not participating actively in meetings (1)	0	0	0	0
Apply your collective knowledge of research methods in a team setting (2)	0	0		
Identify contributions to the research that each team member can offer (3)		0	0	
Carry out individual responsibilities assigned to each team member (4)	0	0	0	
Q5.3 Please share a \${Q1.3/ChoiceGrou	any additional inforn	•		
End of Block: Teal	m Science by Unive	ersity		

Start of Block: Team Science at UVA

Q6.1 In this section you will be asked about how your project teams are functioning.					
Q6.2 Select one of your two project teams to rate first.					
▼ Charlottesville EN	/IS Equity (1) USI	DA ERS (14)			
Q94 Please rate the	•	•	•	Door (4)	
Function	Excellent (1)	Good (2)	Average (3)	Poor (4)	
effectively as an interdisciplinary team (1)	0	0	0	0	
Treat all team members as colleagues (2)	\circ	\circ	\circ	0	
Ensure that all team members' preferences are considered when working together (3)	0	0		0	
Ensure that all team members' goals are considered when working together (4)	0	0		0	

Q95 Please rate the ${Q6.2/ChoiceGroup/SelectedChoices}$ team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Handle disagreements effectively (1)	0	0	0	0
Address issues succinctly in team meetings (2)	\circ	0	0	0
Ensure all team members actively participate in team meetings (3)		0	0	0
Adjust individual's approaches to support the team goals (4)	0	0	0	0

Q96 Please rate the ${Q6.2/ChoiceGroup/SelectedChoices}$ team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Develop strategies that help the team attain research goals (1)	0	0	0	0
Raise appropriate issues at team meetings (2)	\circ	0	\circ	0
Recognize when the team is not functioning well (3)	\circ	0	0	0
Intervene effectively to improve team functioning (4)	\circ	0	\circ	0

	Excellent (1)	Good (2)	Average (3)	Poor (4)	
Help draw out team members who are not participating actively in meetings (1)	0	0	0	0	
Apply your collective knowledge of research methods in a team setting (2)	0	0	0	0	
Identify contributions to					

Q97 Please rate the \${Q6.2/ChoiceGroup/SelectedChoices} team's ability to:

each team member can offer (3) Carry out individual responsibilities assigned to each team member (4) Q6.4 Please share any additional information you would like about how the \${Q6.2/ChoiceGroup/SelectedChoices} team is functioning.

Q6.5 Please select your other project team to rate.

Q106 Please rate th	e \${Q6.5/ChoiceGre Excellent (1)	oup/SelectedChoi Good (2)	ces} team's ability to: Average (3)	Poor (4)
Function effectively as an interdisciplinary team (1)	0	0	0	0
Treat all team members as colleagues (2)	\circ	\circ	\circ	0
Ensure that all team members' preferences are considered when working together (3)	0	0		0
Ensure that all team members' goals are considered when working together (4)	0	0	0	0

Q107 Please rate the $\{Q6.5/ChoiceGroup/SelectedChoices\}$ team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Handle disagreements effectively (1)	0	0	0	0
Address issues succinctly in team meetings (2)	\circ	0	0	0
Ensure all team members actively participate in team meetings (3)		0	0	0
Adjust individual's approaches to support the team goals (4)	0	0		\circ

Q108 Please rate the $\{Q6.5/ChoiceGroup/SelectedChoices\}$ team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Develop strategies that help the team attain research goals (1)	0	0	0	0
Raise appropriate issues at team meetings (2)	0	0	\circ	\circ
Recognize when the team is not functioning well (3)	0	0	\circ	0
Intervene effectively to improve team functioning (4)	0	0	\circ	0
'				

Q109 Please rate the \${Q6.5/ChoiceGroup/SelectedChoices} team's ability to:

Help draw out team members who are not participating actively in meetings (1)				
	0	0	0	\circ
Apply your collective knowledge of research methods in a team setting (2)	0	0		0
Identify contributions to the research that each team member can offer (3)	0	0		0
Carry out individual responsibilities assigned to each team member (4)	0	0		0

Start of Block: Team Science at Oregon

Q7.1 In this section you will be asked about how your project team is functioning.					
Q7.2 Select the proj	ect team to which yo	ou belong.			
O Alpha (15)	,	C			
O Beta (16)					
O Charlie (17)					
O Delta (18)					
O Echo (19)					
Function effectively as an interdisciplinary team (1) Treat all team members as	e \${Q7.2/ChoiceGro	Good (2)	ces} team's ability to: Average (3)	Poor (4)	
colleagues (2) Ensure that all team members' preferences are considered when working together (3)	0	0	0	0	
Ensure that all team members' goals are considered when working together (4)	0				

Q152 Please rate the ${Q7.2/ChoiceGroup/SelectedChoices}$ team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Handle disagreements effectively (1)	0	0	0	0
Address issues succinctly in team meetings (2)	\circ	0	0	0
Ensure all team members actively participate in team meetings (3)		0	0	0
Adjust individual's approaches to support the team goals (4)	0	0	0	0

Q153 Please rate the ${Q7.2/ChoiceGroup/SelectedChoices}$ team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Develop strategies that help the team attain research goals (1)	0	0	0	0
Raise appropriate issues at team meetings (2)	0	0	0	0
Recognize when the team is not functioning well (3)	0	0	0	0
Intervene effectively to improve team functioning (4)	0	0	0	0
ı				

Q154 Please rate the \${Q7.2/ChoiceGroup/SelectedChoices} team's ability to:

0			
	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Start of Block: Team Science at Iowa

Q8.1 In this section you will be asked about how your project teams are functioning.					
Q8.2 Please select your Cooperative Extension (CES) team to rate first. Capital Indicators Team (15) Social & Natural Capital Indicators Team (16) Hotline Team (17)					
Q155 Please rate th	ne \${Q8.2/ChoiceGro	oup/SelectedChoid Good (2)	ces} team's ability to: Average (3)	Poor (4)	
Function effectively as an interdisciplinary team (1)	0	0	0	0	
Treat all team members as colleagues (2)	\circ	\circ	0	\circ	
Ensure that all team members' preferences are considered when working together (3)	0				
Ensure that all team members' goals are considered when working together (4)	0				

Q156 Please rate the $\{Q8.2/ChoiceGroup/SelectedChoices\}$ team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Handle disagreements effectively (1)	0	0	0	0
Address issues succinctly in team meetings (2)	\circ	0	0	0
Ensure all team members actively participate in team meetings (3)		0	0	0
Adjust individual's approaches to support the team goals (4)	0	0		\circ

Q157 Please rate the ${Q8.2/ChoiceGroup/SelectedChoices}$ team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Develop strategies that help the team attain research goals (1)	0	0	0	0
Raise appropriate issues at team meetings (2)	0	0	0	\circ
Recognize when the team is not functioning well (3)	0	0	0	0
Intervene effectively to improve team functioning (4)	0	0	0	0
'				

Q158 Please rate the ${Q8.2/ChoiceGroup/SelectedChoices}$ team's ability to:

			Poor (4)
O	0		0
0	0	0	0
0	0		0
0	0		0

Q8.5 Please select your lowa Department of Public Health (IDPH) team to rate.								
O RECOVERY Team (15)								
O SYSCARE Team (16)								
O Demos Team (17)								
Q110 Please rate the \${Q	8.5/ChoiceGroup/Se	electedChoices} te	eam's ability to: Average (3)	Poor (4)				
Function effectively as an interdisciplinary team (1)	0	0	0	0				
Treat all team members as colleagues (2)	0	\circ	\circ	\circ				
Ensure that all team members' preferences are considered when working together (3)	0	0		0				
Ensure that all team members' goals are considered when working together (4)	0	0		0				

Q111
Please rate the \${Q8.5/ChoiceGroup/SelectedChoices} team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Handle disagreements effectively (1)	0	0	0	0
Address issues succinctly in team meetings (2)	\circ	0	0	0
Ensure all team members actively participate in team meetings (3)		0	0	0
Adjust individual's approaches to support the team goals (4)	0	0	0	0

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Q112 Please rate the ${Q8.5/ChoiceGroup/SelectedChoices}$ team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Develop strategies that help the team attain research goals (1)	0	0	0	0
Raise appropriate issues at team meetings (2)	0	0	\circ	0
Recognize when the team is not functioning well (3)	0	0	0	0
Intervene effectively to improve team functioning (4)	0	0	0	0
'				

Q113
Please rate the \${Q8.5/ChoiceGroup/SelectedChoices} team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Help draw out team members who are not participating actively in meetings (1)	0	0	0	0
Apply your collective knowledge of research methods in a team setting (2)	0	0	0	0
Identify contributions to the research that each team member can offer (3)	0	0	0	0
Carry out individual responsibilities assigned to each team member (4)	0	0	0	0

Start of Block: Additional Thoughts

DSPG 2020 Young Scholars Training and Team Science 2

Start of Block: Info Sheet & Consent

Q63 Before you begin this survey, we would like to provide you with some information regarding the purpose. This section will cover: Purpose of this survey Time required to complete this survey Risks and benefits to participating in this survey Confidentiality of your information Voluntary participation and right to withdraw How your data may be used beyond this survey Contact information if you have questions Please read the following information carefullybefore you decide to participate in this survey

Q68 **Purpose of this survey:** We are implementing a three-state network to infuse data science into agriculture research, workforce development, and Cooperative Extension activities across Iowa, Oregon, and Virginia by adapting the successful University of Virginia Data Science for the Public Good (DSPG) program. This will advance the applications of big data across problems in health and nutrition, food and agriculture, youth development, and community resource development. At the heart of this proposal is testing the implementation of the DSPG program in these states, each with different sets of Cooperative Extension professionals, with the goal to prepare Blueprint for other states to mount similar programs. The purpose of this survey is to collect information from DSPG participants in order to assemble a DSPG Blueprint with best practices and know-how for other public and land-grant institutions across the country to replicate our DSPG models.

Q64 **Time required:** Once you begin the survey, it will take approximately 10 to 15 minutes to complete. Several of the questions allow for free responses, so the total time required will vary depending on the amount of additional information you choose to include.

Risks: There is minimal risk associated with this survey. Direct data access to your data will be restricted to limited members of the Evaluation Team, and data will be deidentified and aggregated before being disseminated to the university program coordinators. If something unexpected involving risk happens, we will take immediate action to notify you and resolve the problem accordingly.

Benefits: This survey may benefit future DSPG participants through dissemination of a DSPG Blueprint of best practices and the rural America communities that they partner with on issues of economic mobility.

Q65 **Confidentiality:** The information that you provide in this survey will be handled confidentially. Some of the questions will ask for information (e.g., your university) to tailor questions to your personal experience. However, your results will be reported anonymously. Your information will be assigned a code number. The list connecting your name to this code will be kept in a separate file. When the study is completed and the data have been analyzed, this list will be destroyed. Data will only be reported as aggregates. Your name will not be used in any report.

The surveys and data are initially stored in the Quatrics system that require University of Virginia login and password and can only be accessed by limited members of the Evaluation Team. The data do not include recordings. The data will be moved to a secure University of Virginia Box folder for long term storage with access limited to the same members of the Evaluation Team.

We will keep the data for up to three years to facilitate aggregate comparisons over time and to use in publications.

Voluntary participation: Your participation in this survey is completely voluntary. If you do not feel comfortable sharing particular information, you do not have to answer a question. **Right to withdraw from the study:** You may choose not to participate in this survey or stop completion of the survey at any time without penalty. Participating in this survey does not constitute consent to participate in future surveys. You may also request any previous surveys related to the DSPG program that you have completed be excluded from the data set at any time.

Q66

How to withdraw from the survey/request your information be expunged: You have the right to withdraw your consent at any time. Withdrawing will not affect your experience as a participant in the DSPG program. You will still receive your full program stipend. If you would like to have your responses to this or any previously completed surveys expunged, please contact a member of the Evaluation Team at the contact information listed below.

Payment: You will not receive payment for participating in this survey. **Using data beyond this study:** Data will be kept in aggregate form for comparison against future implementations of the DSPG program. Additionally, aggregated university and project team assessments may be linked to project outcome measures for the purposes of testing team science-related hypotheses. In all cases, any identifying information (e.g., your name, contact information, etc.) connected to the information you provide will be removed and data will be aggregated and reported at the team level. Aggregated information may be made available on a public website such as the DSPG Knowledge Portal or Open Science journal website. Future studies related to team science will not ask your permission for each new study. These studies will not have access to your name and other information that could potentially identify you nor will they attempt to identify you.

Q70

UVA IRB-SBS protocol number: 3474

Evaluation Team contact information: If you have any questions about this survey or the use of your data or if you would like to request that any data you have submitted be expunged, please contact a member of the Evaluation Team: Joel Thurston at jt9sz@virginia.edu

Stephanie Shipp at sss5sc@virginia.edu

To obtain more information about the study, ask questions about the research procedures, express concerns about your participation, or report illness, injury or other problems, please contact: Tonya R. Moon, Ph.D.

Chair, Institutional Review Board for the Social and Behavioral Sciences

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Website for Research Participants: https://research.virginia.edu/research-participants

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Q67

You may print or save a copy of this form.

consent to continue. If you do not wish to participate in this survey, select that response below to exit the survey.
 I have read and understood the information regarding this survey and consent to continue (1)
O I do not wish to participate in this survey (2)
Skip To: End of Survey If You may print or save a copy of this form. Please indicate that you have read and understood th = I do not wish to participate in this survey
End of Block: Info Sheet & Consent
Start of Block: General Information
Q1.2 Thank you for participating in this survey. To begin, we'll collect some general information about you that can be used to tailor later sections and surveys to your specific DSPG experience.
Q1.3 What university are you participating in the DSPG program with?
○ IA (1)
OR (2)
○ UVA (3)
○ VSU (4)
O VT (5)
Q1.4 Are you a Fellow or an Intern?
○ Fellow (1)
O Intern (2)

Display This Question:
If What university are you participating in the DSPG program with? = UVA
Q1.5 What is your UVA sponsored email account?
Display This Question:
If What university are you participating in the DSPG program with? != UVA
Q1.6 What email account are you using as your primary point of contact for this program?
Q1.7 How would rate your overall experience in the DSPG training thus far?
C Excellent (1)
○ Good (2)
O Average (3)
O Poor (4)

Q90 To what degree does your experience in the DSPG training meet your expectations?	
Exceeds expectations (1)	
O Equals expectations (2)	
O Below expectations (3)	
Q1.8 What is something new that you have learned?	
Q1.9 What suggestions do you have on how we can improve the DSPG training?	
	
- 	
End of Block: General Information	
Start of Block: Training & Seminars	
Q2.1 This section covers the training, seminars, brown bags, and other sessions you participated in during the program.	

Q2.2 Listed below are the technical training sessions that you participated in during the week of June 29 to July 3. Please indicate how useful each of these training sessions was overall.

,	Very useful (1)	Moderately useful (2)	Slightly useful (3)	Not useful (4)	Did not attend (5)
Working with a dedicated GIS: QGIS (Chris Seeger) (1)	0	0	0	0	0
Shiny Applications: Introduction and set up, sharing output, customizing output (Heike Hofmann) Day 1 (3)	0		0		
Shiny Applications: Introduction and set up, sharing output, customizing output (Heike Hofmann) Day 2 (6)		0	0		
		-		articipated in during sessions was o	•
Machine Learning in R (parsnip): Classification (Adisak Sukul) (1)	0	0	0	0	0

Q88 Listed below are the technical training sessions that you participated in during the week of July 13 to July 17. Please indicate how useful each of these training sessions was overall.							
	Very useful (1)	Moderately useful (2)	Slightly useful (3)	Not useful (4)	Did not attend (5)		
Machine Learning in R (parsnip): Regression (Adisak Sukul) (1)	0	0	0	0	0		
Unsupervised Learning in R (Adisak Sukul) (3)	0	0	0	0	0		

Q89 Listed below are the technical training sessions that you participated in during the week of July 20 to July 24. Please indicate how useful each of these training sessions was overall.

	Very useful (1)	Moderately useful (2)	Slightly useful (3)	Not useful (4)	Did not attend (5)
GitHub Webpages for DSPG Projects (Gizem Korkmaz, Brandon Kramer, & Neil Alexander (1)	0	0	0	0	0
Shiny Layout and Poster Templates (Aaron Schroeder & Gizem Korkmaz) (3)	0	0	0	0	0
DSPG Graphics Cookbook: Adopting standards for graphical output (Vicki Lancaster) (4)	0	0	0		0

Q2.3 Listed below are the brown bags presentations that have occurred during the program. Please indicate how useful the session was overall.

	Very useful (1)	Moderately useful (2)	Slightly useful (3)	Not useful (4)	Did not attend (5)
Economic Mobility (Cass Dorius & Teja Pristevic) (1)	0	0	0	0	0
Assessing Social Determinants of Health and Impact on Health Outcomes (Michaela Rikard) (2)			0		
Media Interaction: Media Writing (Michael Todd, Sage) (5)	0	0	0	0	0
Data Journalism and the DSPG Experience (Alyssa Fowers) (6)			0		
End of Block: ⁻	Training & Sem	inars			
Start of Block:	Weekly Activit	ies			
Display This Que			200	111/4	
if What unive	ersity are you part	icipating in the DS	SPG program with?	T=UVA	
Q3.1 In this sec	tion you will be a	asked about the	regularly occurring	ng activities that y	ou participate

Q3.2 How useful do you find the following activities?					
	Very useful (1)	Moderately useful (2)	Slightly useful (3)	Not useful (4)	
Weekly preview meetings (1)	0	0	0	0	
Project code merge meetings (2)	\circ	\circ	0	\circ	
Weekly wrap-up meetings (3)	\circ	\circ	\circ	\circ	
DSPG Fellows Meet-up (5)	\circ	\circ	\circ	\circ	
Git Office Hours (6)	\circ	\circ	\circ	\circ	
Q3.3 Indicate the d	legree to which these	e activities occur to	oo often, in just the	right amount, or not	
enough.	Too often	(1) Jus	st right (2)	Not enough (3)	
Preview meetings	(1)		\circ	0	
Project code mero meetings (2)	ge		\circ	\circ	
Weekly wrap-up meetings (3)			\bigcirc	0	
meetings (5)					
DSPG Fellows Me up (4)	et-		0	0	

Q3.4 Think about these	other facets of the DSP0	G program and how eac	h one impacts your
ability to complete your	projects. Select the amo	unt you feel best corres	ponds to each
component.			
	Too much (1)	Just right (2)	Not enough (3

component.	Too	much (1)	Just right (2)	Not e	nough (3)	
Project worklo	ad (1)	0	0		\circ	
Project team s	ize (2)	\circ	0		\circ	
Project meetin	igs (3)	\circ	\circ		0	
	Weekly Activitie	S				
Start of Block:	Special Events					
Q4.1 In this section you will be asked about special events, such as DSPG Distinguished						
			, that have occurred			
Speaker Series		I presentations,			ram.	
Speaker Series	talks and specia	I presentations,			pram. Did not	
Q4.2 Please ra Midterm presentation sessions	talks and specia	I presentations,	, that have occurred	during the prog	ram.	
Q4.2 Please ra Midterm presentation sessions (July 8 & July	talks and specia	I presentations,	, that have occurred	during the prog	pram. Did not	
Midterm presentation sessions (July 8 & July 10) (1)	te the quality of e Excellent (1)	I presentations,	, that have occurred	during the prog	pram. Did not	
Midterm presentation sessions (July 8 & July 10) (1)	te the quality of e Excellent (1) Special Events	ach event. Good (2)	, that have occurred	during the prog	pram. Did not	
Midterm presentation sessions (July 8 & July 10) (1)	te the quality of e Excellent (1)	ach event. Good (2)	, that have occurred	during the prog	pram. Did not	
Midterm presentation sessions (July 8 & July 10) (1) End of Block:	te the quality of e Excellent (1) Special Events Team Science to	ach event. Good (2)	, that have occurred	Poor (4)	Did not attend (5)	

Q5.2 Please rate the $\{Q1.3/ChoiceGroup/SelectedChoices\}$ team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Function effectively as an interdisciplinary team (1)	0	0	0	0
Treat all team members as colleagues (2)	\circ	\circ	0	0
Ensure that all team members' preferences are considered when working together (3)		0	0	0
Ensure that all team members' goals are considered when working together (4)	0	0		0

Q91 Please rate the \${Q1.3/ChoiceGroup/SelectedChoices} team's ability to: Excellent (1) Good (2) Average (3)

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Handle disagreements effectively (1)	0	0	0	0
Address issues succinctly in team meetings (2)	0	0	\circ	0
Ensure all team members actively participate in team meetings (3)		0		0
Adjust individual's approaches to support the team goals (4)	0	0	0	0

Q92 Please rate the ${Q1.3/ChoiceGroup/SelectedChoices}$ team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Develop strategies that help the team attain research goals (1)	0	0	0	0
Raise appropriate issues at team meetings (2)	0	\circ	0	0
Recognize when the team is not functioning well (3)	0	0	0	0
Intervene effectively to improve team functioning (4)	0	0	0	0

Q93 Please rate the \${Q1.3/ChoiceGroup/SelectedChoices} team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Help draw out team members who are not participating actively in meetings (1)	0	0	0	0
Apply your collective knowledge of research methods in a team setting (2)	0	0	0	0
Identify contributions to the research that each team member can offer (3)	0	0		
Carry out individual responsibilities assigned to each team member (4)	0	0		
	any additional inforr up/SelectedChoices}	•		
End of Block: Tea	am Science by Univ	ersity		

Start of Block: Team Science at UVA

Q6.1 In this section	n you will be asked a	bout how your pro	ject teams are functio	oning.
Q6.2 Select one of	your two project tea	ms to rate first.		
▼ Charlottesville E	MS Equity (1) US	DA ERS (14)		
Q94 Please rate th	e \${Q6.2/ChoiceGro	-	•	
	Excellent (1)	Good (2)	Average (3)	Poor (4)
Function effectively as an interdisciplinary team (1)	\circ	\circ	\circ	\circ
Treat all team members as colleagues (2)	0	0	0	0
Ensure that all team members' preferences are considered when working together (3)	0	0		0
Ensure that all team members' goals are considered when working together (4)	0			

Q95 Please rate the ${Q6.2/ChoiceGroup/SelectedChoices}$ team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Handle disagreements effectively (1)	0	0	0	0
Address issues succinctly in team meetings (2)	0	0	\circ	0
Ensure all team members actively participate in team meetings (3)	0	0		0
Adjust individual's approaches to support the team goals (4)	0	0		0

Q96 Please rate the ${Q6.2/ChoiceGroup/SelectedChoices}$ team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Develop strategies that help the team attain research goals (1)	0	0	0	0
Raise appropriate issues at team meetings (2)	0	\circ	0	0
Recognize when the team is not functioning well (3)	0	0	0	0
Intervene effectively to improve team functioning (4)	0	0	0	0

Q97 Please rate the ${Q6.2/ChoiceGroup/SelectedChoices}$ team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Help draw out team members who are not participating actively in meetings (1)	0	0	0	0
Apply your collective knowledge of research methods in a team setting (2)	0	0		0
Identify contributions to the research that each team member can offer (3)	0	0		0
Carry out individual responsibilities assigned to each team member (4)	0	0		0
Q6.4 Please share	any additional infornup/SelectedChoices	-		

Q6.5 Please select your other project team to rate.

▼ Charlottesville EMS Equity (1) USDA ERS (14)				
Q106 Please rate t	-	-	ces} team's ability to:	Door (4)
	Excellent (1)	Good (2)	Average (3)	Poor (4)
Function effectively as an interdisciplinary team (1)	\circ	\circ	\circ	0
Treat all team members as colleagues (2)	\circ	\circ	\circ	\circ
Ensure that all team members' preferences are considered when working together (3)		0	0	0
Ensure that all team members' goals are considered when working together (4)				0

Q107 Please rate the $\{Q6.5/ChoiceGroup/SelectedChoices\}$ team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Handle disagreements effectively (1)	0	0	0	0
Address issues succinctly in team meetings (2)	0	0	\circ	0
Ensure all team members actively participate in team meetings (3)	0	0		0
Adjust individual's approaches to support the team goals (4)	0	0		0

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Q108 Please rate the $\{Q6.5/ChoiceGroup/SelectedChoices\}$ team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Develop strategies that help the team attain research goals (1)	0	0	0	0
Raise appropriate issues at team meetings (2)	0	0	0	0
Recognize when the team is not functioning well (3)	0	0	0	0
Intervene effectively to improve team functioning (4)	0	0	0	0
ı				

Q109 Please rate the \${Q6.5/ChoiceGroup/SelectedChoices} team's ability to:

0			
	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Start of Block: Team Science at Oregon

Q7.1 In this section you will be asked about how your project team is functioning.							
Q7.2 Select the project team to which you belong.							
O Alpha (15)							
O Beta (16)							
O Charlie (17	·)						
O Delta (18)							
O Echo (19)							
Punction effectively as an interdisciplinary team (1)	he \${Q7.2/ChoiceGr Excellent (1)	oup/SelectedChoic Good (2)	es} team's ability to: Average (3)	Poor (4)			
Treat all team members as colleagues (2)	\circ	0	\circ	\circ			
Ensure that all team members' preferences are considered when working together (3)	0	0	0	0			
Ensure that all team members' goals are considered when working together (4)	0	0	0				

Q152 Please rate the \${Q7.2/ChoiceGroup/SelectedChoices} team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Handle disagreements effectively (1)	0	0	0	0
Address issues succinctly in team meetings (2)	\circ	0	0	\circ
Ensure all team members actively participate in team meetings (3)		0	0	0
Adjust individual's approaches to support the team goals (4)	0	0	0	0

Q153 Please rate the ${Q7.2/ChoiceGroup/SelectedChoices}$ team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Develop strategies that help the team attain research goals (1)	0	0	0	0
Raise appropriate issues at team meetings (2)	0	0	\circ	0
Recognize when the team is not functioning well (3)	0	0	0	0
Intervene effectively to improve team functioning (4)	0	0	0	0
	1			

Q154 Please rate the \${Q7.2/ChoiceGroup/SelectedChoices} team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Help draw out team members who are not participating actively in meetings (1)	0	0	0	0
Apply your collective knowledge of research methods in a team setting (2)	0	0	0	0
Identify contributions to the research that each team member can offer (3)	0	0		
Carry out individual responsibilities assigned to each team member (4)	0			
	any additional inforr up/SelectedChoices}	•		
End of Block: Tea	am Science at Oreg	on		

Start of Block: Team Science at Iowa

Q8.1 In this section you will be asked about how your project teams are functioning.					
Q8.2 Please select your Cooperative Extension (CES) team to rate first. Capital Indicators Team (15) Social & Natural Capital Indicators Team (16) Hotline Team (17)					
Q155 Please rate t	the \${Q8.2/ChoiceGro	oup/SelectedChoic Good (2)	es} team's ability to: Average (3)	Poor (4)	
Function effectively as an interdisciplinary team (1)	0	0	0	0	
Treat all team members as colleagues (2)	0	0	\circ	\circ	
Ensure that all team members' preferences are considered when working together (3)	0	0	\circ	0	
Ensure that all team members' goals are considered when working together (4)	0	0	0		

Q156 Please rate the \${Q8.2/ChoiceGroup/SelectedChoices} team's ability to: Excellent (1) Good (2) Average (3)

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Handle disagreements effectively (1)	0	0	0	0
Address issues succinctly in team meetings (2)	0	0	0	0
Ensure all team members actively participate in team meetings (3)		0	0	0
Adjust individual's approaches to support the team goals (4)	0	0	0	0

Q157 Please rate the ${Q8.2/ChoiceGroup/SelectedChoices}$ team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Develop strategies that help the team attain research goals (1)	0	0	0	0
Raise appropriate issues at team meetings (2)	0	\circ	\circ	0
Recognize when the team is not functioning well (3)	0	0	0	0
Intervene effectively to improve team functioning (4)	0	0	0	0

Q158 Please rate the \${Q8.2/ChoiceGroup/Selected	Choices	} team's abilit	v to:
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Help draw out team members	Excellent (1)	Good (2)	Average (3)	Poor (4)
who are not participating actively in meetings (1)	0	0	0	0
Apply your collective knowledge of research methods in a team setting (2)	0	0	0	0
Identify contributions to ne research that each team member can offer (3)	0	0		0
Carry out individual responsibilities ssigned to each team member (4)	0	0		0

Q8.5 Please select your lowa Department of Public Health (IDPH) team to rate.								
O RECOVER	O RECOVERY Team (15)							
O SYSCARE Team (16)								
O Demos Team (17)								
Q110 Please rate the \${0	Q8.5/ChoiceGroup/Se Excellent (1)	electedChoices} te	eam's ability to: Average (3)	Poor (4)				
Function effectively as an interdisciplinary team (1)	0	0	0	0				
Treat all team members as colleagues (2)	0	0	\circ	\circ				
Ensure that all team members' preferences are considered when working together (3)	0	0	0	0				
Ensure that all team members' goals are considered when working together (4)	0			0				

Q111
Please rate the \${Q8.5/ChoiceGroup/SelectedChoices} team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Handle disagreements effectively (1)	0	0	0	0
Address issues succinctly in team meetings (2)	\circ	\circ	0	0
Ensure all team members actively participate in team meetings (3)	\circ	0		0
Adjust individual's approaches to support the team goals (4)	0	0		0

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Q112
Please rate the \${Q8.5/ChoiceGroup/SelectedChoices} team's ability to:

	Excellent (1)	Good (2)	Average (3)	Poor (4)
Develop strategies that help the team attain research goals (1)	0	0	0	0
Raise appropriate issues at team meetings (2)	\circ	0	0	0
Recognize when the team is not functioning well (3)	0	0	0	0
Intervene effectively to improve team functioning (4)	0	0	0	0
'				

Q113
Please rate the \${Q8.5/ChoiceGroup/SelectedChoices} team's ability to:

Help draw out team members who are not		Good (2)	Average (3)	Poor (4)
participating actively in meetings (1)	0	0	0	0
Apply your collective knowledge of research methods in a team setting (2)	0	0	0	0
Identify contributions to ne research that each team member can offer (3)	0	0	0	0
Carry out individual responsibilities ssigned to each team member (4)	0	0	0	0

Start of Block: Additional Thoughts

DSPG 2020 Partner & Stakeholder Pre-Survey

Start of Block: General information
Q1.1 Thank you for your involvement with the 2020 Data Science for the Public Good program. As the program begins, we would like to collect some information from you. We anticipate the survey will take 10-15 minutes to complete, depending on the amount of detail you provide in response to the open-ended questions. This information is being collected for program evaluation purposes. Some of the questions will ask for individuating information (e.g., contact email) in order to tailor questions to your home state and/or the university working on your project. However, your results will be anonymous. Your names will not be kept with the data. They will be replaced with an ID code. Data will only be reported as aggregates. If you do not feel comfortable sharing particular information, you do not have to answer a question in order to proceed with the remainder of the survey.
Q1.2 What is your first name?
Q1.3 What is your last name?

Q1.4 What is your contact email address?

Q56 What state are you based in?
O lowa (1)
Oregon (2)
O Virginia (3)
End of Block: General information
Start of Block: Background Knowledge
Q2.1 This section covers your interest and experience in using data science as part of your ongoing work.

Q2.2 How frequently do you currently engage in these activities as a part of your ongoing work?

	Very frequently (e.g., every project) (1)	Frequently (e.g., many or most projects) (2)	Infrequently (e.g., occasional project) (3)	Very infrequently (e.g., few to no projects) (4)
Looking for data sources or data sets that might be useful to you (4)	0	0	0	0
Requesting and/or accessing data for later use (5)	0	0	0	0
Importing or ingesting data (e.g., web scraping) to use (6)	0		0	0
Reviewing and exploring data to determine if it is useful (e.g., data sets are complete/not missing important chunks, data sets actually include information on the promised topics) (7)	0			
Preparing data for use or analysis (i.e., fixing minor issues, converting data into a format you can use) (8)	0			
Summarizing and simple analysis of data (e.g., doing simple calculations	0			

and/or visualizations to find benefits of the data. (9)				
Modeling, e.g., generating predictive models, clustering analysis, conducting time series or geospatial analyses (10)	0	0	0	
Creating and/or presenting deliverables based on data analysis (e.g., public presentations, handouts, consumable data products like dashboards) (11)			0	

Q2.3 How comfortable do you feel engaging in each of these activities as a part of your ongoing work?

	Extremely comfortable (1)	Comfortable (2)	Uncomfortable (3)	Extremely uncomfortable (4)
Looking for data sources or data sets that might be useful to you (1)	0	0	0	0
Requesting and/or accessing data for later use (2)	0	\circ	0	\circ
Importing or ingesting data (e.g., web scraping) to use (3)	0	0	0	0
Reviewing and exploring data to determine if it is useful (e.g., data sets are complete/not missing important chunks, data sets actually include information on the promised topics) (4)				
Preparing data for use or analysis (i.e., fixing minor issues, converting data into a format you can use) (5)	0		0	
Summarizing and simple analysis of data (e.g., doing simple	0		0	

calculations and/or visualizations to find benefits of the data. (6)				
Modeling, e.g., generating predictive models, clustering analysis, conducting time series or geospatial analyses (7)	0	0		
Creating and/or presenting deliverables based on data analysis (e.g., public presentations, handouts, consumable data products like dashboards) (8)	0			
Q2.4 How else do	you make use of data	or data-driven insig	ghts in your work?	
End of Block: Ba	ckground Knowledg	9		

Start of Block: Goals & Expectations

Q3.1 This section covers your goa for the Public Good summer progr	<u>-</u>	they relate to the 20	020 Data Science
Q3.2 Please list up to three specif with the DSPG program.	ic goals that you hope	to achieve through y	our involvement
O Goal 1 (4)			
O Goal 2 (5)			
O Goal 3 (6)			
Q3.5 How confident are you that t	he DSPG program will Very confident (1)	achieve the goals yo Somewhat confident (2)	Not at all
If Please list up to three specific goals that you hope to achieve through your involvement with thi Goal 1 Is Not Empty \${Q3.2/ChoiceTextEntryValue/4} (1)	0	0	0
If Please list up to three specific goals that you hope to achieve through your involvement with thi Goal 2 Is Not Empty \${Q3.2/ChoiceTextEntryValue/5} (2)	0	0	0
If Please list up to three specific goals that you hope to achieve through your involvement with thi Goal 3 Is Not Empty \${Q3.2/ChoiceTextEntryValue/6} (4)	0	0	0

Q3.3 Are there other goals that you hope to achieve through your involvement with with the DSPG program?
○ Yes (1)
O No (4)
Display This Question:
If Are there other goals that you hope to achieve through your involvement with with the DSPG program? = Yes
Q3.4 Please provide any additional information that you would like about your additional goals.

Q3.6 Looking to the future, assuming a best case scenario in which the Data Science for the Public Good summer program provides you with an ideal data set and/or deliverables, how do you intend to make use of these data-driven products and insights?
End of Block: Goals & Expectations

Start of Block: Additional Thoughts

			_
			_
 	 	 	_