DSPG 2020 Intake Survey Responses Summary

Intake Survey Respondents

	Total	ISU	OSU	UVA	VT	VSU
Total in Program	**61**	**12**	**14**	**24**	**5**	**6**
Total Respondents	**58**	**10**	**13**	**24**	**5**	**6**
Fellows	21	3	6	8	2	2
Interns	37	7	7	16	3	4

Q: How did you find out about the DSPG program?

Two primary methods:
1. Personal Recommendations (colleague, faculty, Dean, other)
2. Listservs, websites, emails

ISU: Fellows	Oregon State: Fellows	UVA: Fellows	VT: Fellows	VSU: Fellows
Faculty member Personal Recommendation ISU email	Department email My advisor Faculty member Listserv announcement	Announcement (Indeed/LinkedIn) ASA yearly internship list CMU Heinz College Career Services Listserv announcement Personal recommendation Personal recommendation from 2 people Recommendation by past intern Self-discovery, Grace Hopper Conference	Recommendation from Dean Virginia State email	Faculty Recommendation Personal recommendation
ISU: Interns	**OregonState:Interns**	**UVA: Interns**	**VT: Interns**	**VSU: Interns**
Email announcement Email from ISU Extension Listserv announcement Notice board Personal recommendation Personal recommendation	Browsing OSU programs CS Program Email at my University Facebook post by career center Faculty posted to an email list Instructor of a class OSU website Personal recommendation	Career center listserv Department advertising Flyer at UVA Former intern (last summer) Listserv Listserv announcement My own research Personal Recommendation Personal recommendation Previous year intern Professor recommendation Searching for biomedical data science opportunities Sent in email at lab	Personal recommendation Professor Recommended to CS students by advisor School Email	Listserv announcement Listserv announcement Listserv announcement

Q: I am interested in pursuing a career related:

	Strongly Agree	Somewhat Agree	Somewhat Disagree	Strongly Disagree	Total
Data Science	39	14	4	1	58
Public Sector	23	28	6	1	58
Community Service	20	25	13	0	58
Rural America	8	25	22	3	58

	Agree		Disagree	
Data Science	53	91.4%	5	8.6%
Public Sector	51	87.9%	7	12.1%
Community Service	45	77.6%	13	22.4%
Rural America	33	56.9%	25	43.1%

	I'm interested in learning: Technical Skill 1	I'm interested in learning: Technical Skill 2	I'm interested in learning: Professional Skill 1	I'm interested in learning: Professional skill 2
Fellow	Programming	data analytics	communication	leadership
Fellow	Machine Learning	Apache Spark (or something similar)	Leadership	Communication
Fellow	R	R Shiny	Interacting with Stakeholders	Managing a team
Intern	Data visualization	Machine learning	virtual collaboration	communication with people of different status
Intern	Data visualization	Web scraping	Working with teams	Delivering a product for stakeholders
Intern	web scraping	R shiny	working as a team member in a research position	polished presentation
Intern	Webscraping	Data Discovery	Remote Collaboration	Meetings - both leading and learning
Intern	Data analysis through R	Mapping data	How to create a new project and run it efficiently	How to work with people from a completely different discipline
Intern	Web scraping	Data Visualization	Team Science skills	presentation skills
Intern	GitHub	Shiny Dashboard	Database	SQL
Fellow	working with coding more	using code to manipulate and analyze data	practice meeting and communicating with stakeholders	working as a team to complete a large project
Fellow	Strong Data Analysis skills using R	Improved knowledge in statistics and statistical analysis	Understanding of what is expected in a professional report for a project.	Team management skills.
Fellow	improve my R and overall data science vocabulary	examples on how to import and display data in a useful way	mentoring undergraduates	being able to facilitate the work of others
Fellow	Data Visualization	Statistical methods	Policy implementation	Identifying challenges in rural communities
Fellow	GIS in R	Model building	Leadership	Organization
Fellow	Dashboard development	R skills	Community based research	Learn how to work with rural communities
Intern	SQL	Shiny	Team collaboration	Communicating results to stakeholders
Intern	GIS	More R packages	Working with professionals	Giving presentations/public speaking
Intern	Geospatial R	Data analysis	Presentation	Communication
Intern	Improving my ability to use R for data analysis	Data cleaning	Group collaboration	
Intern	Coding	Statistics	Public interfacing skills	Working with other academics
Intern	Statistical Analysis	Data Visualization	Working with multiple independent stakeholders.	Doing data science and allowing non-technical stakeholders to understand what's going on.
Intern	Data Analysis	Research	Group Coding Projects	Research
Fellow	NLP	SNA	Team Management	Sponsor Goal Identification
Fellow	Improve data visualization skills	Improve spatial analysis skills	Improve project management/collaborative work skills	Improve mentorship skills

Fellow	Advanced R Programming	Database Skills	Workplace Skills	Presentation Skills
Fellow	Be more comfortable coding in Python	Be able to work with data scrapped from the web	Improve my presentation skills	Learn ways to effectively communicate and build relationships with supervisors
Fellow	Collaborative code development	Interactive visualization	Policy document development	Development of institutional knowledge of federal agencies
Fellow	statistical modeling	data management	effective project management	good professional communication
Fellow	Analysis of big data	Work with census data	Public speaking	Project management
Fellow	machine learning	project version control	project team management	project scoping
Intern	Better knowledge of methods	Hands on experience in the data science framework	Working on a team/clean coding	Working with stakeholders
Intern	Greater Familiarity with Census Data	More practice mapping using non GIS tools	Engaging with community stakeholders	Working with people from a broad variety of disciplines
Intern	natural language processing	scraping twitter data	creating and presenting final products / research summaries	the ability to do in depth lit reviews
Intern	Python	GIS	Sending email	Presenting
Intern	Unsupervised Learning (Python?)- fully understand topic modeling	R Shiny Dashboard	Understanding about social capital frameworks	Understanding how to ethically model and integrate ethics into data science
Intern	GIS skills	Data visualization	Communication	Output presentation
Intern	Network analysis	Data visualization	Project management	Teamwork
Intern	More proficient use of R	Effective means of acquiring and compiling data	How to collaboratively code	teamwork
Intern	Machine Learning	NLP	Communication with stakeholders	Community outreach
Intern	interactive map	natural language processing	teamwork	communication with stakeholders
Intern	NPL	Data Cleaning	Effective Team Work	Communicating results efficiently
Intern	Learning R	Learning git/github	Working with a team	Presenting and working with stakeholders
Intern	network analysis	GIS	technical writing	journalistic writing (sage brief)
Intern	Working with R	Advanced Data Analytics	Working in a vertically integrated team	Collaborating remotely
Intern	Python experience	Data visualization	Presentations	Possible networking
Fellow	Software/programming	Analysis	Leadership	Communication
Fellow	Web scraping	SQL	Leadership	Teamwork
Intern	Web Scrapping	R programming for data cleaning	Communication	Teamwork
Intern	R language	Application of Statistics	Integrity	Collaboration
Intern	R programming best practices for reproducibility	Julia programming	Finding obstacles for the team, improving work flow	Communicating results clearly
Fellow	Data mining and analysis	New programming languages	Collaborative networking through many chains of commands	Understanding of all ethics when using data
Fellow	Learning data coding	Learning better research techniques	Networking	
Intern	Base R and its associated languages	Github	Collaborative problem solving	Networking
Intern	Research	Coding		

DSPG Final Survey Responses Summary

Final Survey Respondents

	Total	ISU	OSU	UVA	VT	VSU
Total in Program	**61**	**12**	**14**	**24**	**5**	**6**
Total Respondents	**45**	**9**	**9**	**17**	**4**	**6**
Fellows	15	2	3	6	2	2
Interns	30	7	6	11	2	4

Q: How would rate your overall experience in the DSPG program?

Extremely satisfied	Somewhat satisfied	Somewhat dissatisfied	Extremely dissatisfied	Total
28	17	0	0	45
62%	38%	0%	0%	

Satisfied		Dissatisfied	
45	100%	0	0%

Q: I am interested in pursuing a career related to:

	Strongly Agree	Somewhat Agree	Somewhat Disagree	Strongly Disagree	Total
Data Science	28	12	3	2	45
Public Sector	21	17	7	0	45
Community Service	16	18	11	0	45
Rural America	9	16	14	6	45

	Agree		Disagree	
Data Science	40	88.9%	5	11.1%
Public Sector	38	84.4%	7	15.6%
Community Service	34	75.6%	11	24.4%
Rural America	25	55.6%	20	44.4%

	I'm interested in learning: Technical Skill 1	I'm interested in learning: Technical Skill 2	I'm interested in learning: Professional Skill 1	I'm interested in learning: Professional skill 2
Fellow	R	Python	R Shiny	
Fellow	Statistical Analysis	Machine Learning	R Dashboards	
Intern	Functional coding in R		Team research	
Intern	Data analysis and cleaning	Data collection and review	Team-based project work	Communication in a team setting
Intern	Data cleaning	Data gathering	Data visualization	Linear Regression
Intern	Tableau	R	Communication	Public speaking
Fellow	Get a better understanding of R		Improve my skills working with people from other backgrounds.	
Fellow	R skills	Map making skills	Qualitative stakeholder data collection	
Fellow	Shiny dashboards	Data Visualization	Leadership abilities	Ability to identify strengths in each member
Intern	R	Statistical analysis	Presentation skills	Team communication/collaboration
Intern	Improve R skills			

Intern	R coding	Python	Team work	communication
Intern	Visualizations	Modelling	Communication	Teamwork
Fellow	applying statistical models	code/data management	Project Management	Networking/Communication
Fellow	Data visualization	Text mining?	Project management	Collaboration/teamwork?
Fellow	Work with Census data	Big data	Project management	Explain my work to someone
Intern	Git	Python	Emails	Being clear
Intern	NLP	Text Analysis	Communication	Presenting
Intern	network analysis		writing skills	collaboration
Intern	Topic Modeling	R Shiny	not sure	not sure
Intern	Visual Data Presentation	More practice wrangling data	Working with larger groups and faculty PIs	Working in university research
Intern	text analysis	network analysis		
Fellow	Software	Modeling	Leadership	Networking
Fellow		web scraping	leadership	teamwork
Intern	Geospatial visualization	Programming in R	Working in a team	Presenting
Intern	Mapping using R	Data Cleaning using R	Leading a difficult task	Communicating with an interdisciplinary team
Fellow	data visualization	Using census to answer questions	Understand how to find data even if none and answer a specific research question	Understanding how to explain the data to someone who may not understand the technical terminology
Intern	Coding	Research		
Intern	Additional Programming Languages	Using Data Analysis Tools	Ability to work well in a virtual professional environment	Teamwork
Intern	R			
Intern	Coding	Mapping	Presentation	Communication with team

Q: To what degree did you acquire these skills?

	Extremely well	Very well	Moderately well	Not well at all	Total
Technical skill 1	17	7	8	1	33
Technical skill 2	13	8	8	2	31
Professional skill 1	12	11	5	0	28
Professional skill 2	13	8	2	0	23

	Acquired		Not acquired	
Technical skill 1	32	97.0%	1	3.0%
Technical skill 2	29	93.5%	2	6.5%
Professional skill 1	28	100.0%	0	0.0%
Professional skill 2	23	100.0%	0	0.0%

Q: What other technical and/or professional skills did you acquire?

Fellow	Interacting with stakeholders, presentation skills, team building, and leading a team.
Fellow	Mapping with leaflets, R coding, GIS, etc.
Intern	Too many to list. R shiney, interactive dashboards, data ethics and rights evaluation, web scrapping, improved data cleaning techniques, improved documentation techniques, git and github skills improvement, building an R package, troubleshooting/debugging in R, online community engagement strategies, communication skills, leaflet, mapping, EDA, fun with ggplot, modeling, census data acquisition, zoom presentation skills, and more!
Intern	I also learned important technical skills such as Shiny app creation, geocoding and mapping.
Intern	My technical skills most developed have been using R and working with geospatial data. My professional skills most developed have been presentation and collaboration skills.

Intern	Regression analysis and sentiment analysis.
Intern	R , Python, Tableau, Excel
Intern	interpersonal skills, virtual collaboration, getting rid of biases.
Intern	I think I mostly learned professional skills such as working well in a group, doing research, and gaining the confidence to make decisions without often having someone to check those decisions.
Intern	Web scrapping, shiny dashboard
Intern	Presentation and communication skills
Intern	Broad teamwork based coding knowledge and an initial understanding of machine learning.
Intern	Collaborative coding
Fellow	Delegation Triage Prioritization
Intern	I definitely became more adept at using R generally and formed a solid foundation in natural language processing.
Intern	I gained experience working with stakeholders directly. I also learned building websites using R, presentation, and public speaking skills.
Intern	improved coding skills, presentation skills
Fellow	Improved my git skills substantially; improved my abilities to organize a collaborative project and think more about how well code may scale
Intern	It was very satisfying to see a project through to the end like we did.
Intern	Learning how to directly engage with research stakeholders.
Fellow	Professional: got better at project management. Technical: specific packages used for analysis.
Intern	Teamwork, Mapping, Time Management
Fellow	Time management
Fellow	I also learned communication skills especially in the virtual environment.
Intern	building website and dashboard, statistical analysis, working with someone else on a paper
Intern	Learning how to debug and write efficient code.