Pathways to Science Summer Scholars 2022
Workshop Student Feedback

STEM Meets Storytelling: Using Data Science to Tell Stories about Our Communities

Students were asked to rate each workshop based on their agreement with the following 5 statements, on a 1-5 rating scale, as well as 2 open response questions.

Questions

1. Interesting: I thought the **material** was **interesting**.
2. Well-organized: I thought the workshop was **well-organized**.
3. Content Level: The **content** and **assignments** were sometimes **too hard** for me **to understand**.
4. Recommend: I **would recommend** this workshop **to other students** in Pathways Summer Scholars.
5. Overall: **Overall**, I **enjoyed** this course.

Rating scale

1: Strongly Disagree, 2: Somewhat Disagree, 3: Neutral, 4: Somewhat Agree, 5: Strongly Agree

Student Numerical Ratings

Blue shaded columns are the values for all workshops in your time slot (e.g. Week 1 PM). Gray shaded columns are across all workshops.

	Workshop Avg	Workshop SD	W2AM Avg	W2AM SD	Program Avg	Program SD
Interesting	4.15	0.90	4.46	0.88	4.27	0.91
Well-organized	4.31	0.75	4.60	0.75	4.48	0.76
Content Level*	3.69	1.32	2.37	1.40	2.31	1.26
Recommend	4.31	0.85	4.51	0.83	4.29	0.93
Overall	4.00	1.22	4.56	0.86	4.33	0.93
# of Responses	*13*		*78*		*330*	

*Note: Low content level scores are desirable based on question framing.

Open Response: Most interesting

What was the **most interesting thing** you learned in **STEM Meets Storytelling: Using Data Science to Tell Stories about Our Communities**? What did you **enjoy most** about that workshop? Why?

- I thought it was interesting to get exposed to a new coding language.
- I learned how to make statistic charts, it felt really accomplishing seeing everything I've worked on popping up in a easy and readable chart.

- What I found interesting about this workshop was how much information we get from coding.
- I enjoyed learning about how to use R to create data visualizations, because I feel that it's a skill that is both applicable to a future in a STEM career and it was interesting to learn how to do.
- I loved coding in R! I code often, and I enjoy learning new coding languages, especially when they are useful to daily life.
- R was a very new thing to me even though I coded with other programs in the past I felt this was one that I took the time to learn in depth.
- I learned how to program using "R". I liked making bar graphs of things, because I like to visualize data.
- I really liked learning how to code with R - learning how to make graphs was really fun because it's cool to see a visual representation of data, especially when it's colorful
- I didn't have a lot of interest in this course
- I was introduced to R, a coding language. I can apply the knowledge I learned to some other coding languages I might learn in the future.
- How to code different commands, I have always wanted to understand how computers did data.
- How to code and get starts from it
- The most interesting thing I learned from this workshop was that data science can be used to learn about important topics in the world, such as environmental hazards and diseases. I enjoyed working on the code as a class because individually was a bit too hard to understand, but working all together worked much better.

Open Response: Improvements

What do you think could **improve STEM Meets Storytelling: Using Data Science to Tell Stories about Our Communities** for students next year? Think about the **pacing** of the workshop, the types of **activities** you did, the **content** of the workshop, etc. We take your suggestions **seriously**, so please be **honest** and **detailed** in your response.

- Going at a reasonable pace
- It felt just fine honestly, nothing wrong with it.
- This workshop was overall good.
- I think that it would be easier to learn how to program in R if the lesson was taught along with the assignment so that we could understand how each function in R operates.
- I wish we got through a little more coding content!
- Something that could be improved in this class is the instructions on how to complete different task. At time I felt confused and had to backtrack my

steps. The RStudio helped Alot with that however so I would recommend me teaching in that style again.

- N/A
- The pacing was a bit bad because we never had time to finish the independent activity during class, and it was also very difficult and confusing at times when we all got errors and didn't know why. I would suggest more code-alongs so we understand the syntax better instead of independent activities with all of us getting stuck with similar errors.
- I'm not really sure how this course can be improved. This seems like a topic where it does only apply to a specific audience
- By better explaining the syntax and when to use it, I think I would've had a better time using and understanding the program.
- Make sure that every body is in the same page before contenuing
- Nothing everything went great. they did a great job at explaining and made sure it was understandable this was great!
- This workshop could definitely work on better pacing and making sure all students understand the content, work, and examples used because then it just becomes confusing for the coding part of the workshop. The activities were nice but a bit confusing, since more explanation about the syntax was needed but I did like the big presentation for the last day. The content was intriguing to learn about and made me curious about data science.