Demographic Survey

1. Please indicate your age:
2. Gender

* Male (1)
* Female (2)
* Other (3) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Current  Information - (Sometimes  official titles and "working" titles are different)
   * Official title \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   * Working title \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   * University/College/Department/Institute \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Highest Degree Obtained
   * High School
   * Technical Diploma
   * Associate
   * Bachelors
   * Masters
   * PhD
   * MD
3. How many years have you been working in clinical research?
4. How many years have you worked within an academic health setting?

Pre-Survey

Please indicate your ability to successfully perform each task by selecting a single number from one to seven that best describes your level of confidence. The phrases below the numbers (1 = No Confidence and 7 = Total Confidence) are only guides. You can use these numbers or any of the numbers in between to describe your level of confidence. We would like to know how confident you are that you can successfully perform these tasks today.

Part 1. Managing Data



1. Find and evaluate appropriate data sets for a research project.
2. Ensure data collection is reliable across trials, raters, or equipment.
3. Construct a plan for managing data files.
4. Organize data to store and analyze in a computer system.
5. Analyze data according to their level of measurement and the research design.
6. Provide direction to computer specialists or statisticians on how to handle missing data.

Part 2. Analyzing Data



1. Perform commonly used statistical tests, such as chi-square, t-test, analysis of variance, correlations, and multiple regression.
2. Perform commonly used estimation techniques, such as confidence intervals, effect sizes, and statistical power.
3. Avoid the violation of statistical assumptions.
4. Use programming languages such as R and Python to generate plots and graphic images.

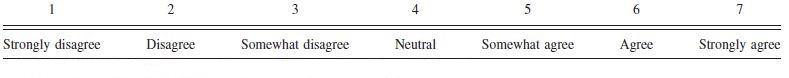
Part 3. Interpreting Data



1. Explain the outcome of given analysis in terms of the originally stated hypotheses or research questions.
2. Express appropriate methodological and theoretical cautions in interpreting results.
3. Identify limitations of a study.

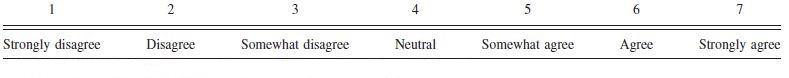
Post-Survey

Part 1. Please indicate the extent to which you agree with the following statements, using this scale:



1. The DataStory environment is a useful style of teaching and learning.
2. I would have learned the content better in a more traditional setting than through data stories.
3. The DataStory environment is inappropriate for graduate-level classes.
4. The style of this learning experience helped me learn data science.
5. Courses in other departments should use a DataStory approach to education.

Part 2. Please indicate the extent to which you agree with the following statements, using this scale:



1. A story-driven approach to instruction increased my interest in data science.
2. The narrative held my attention and enhanced my understanding of the content.
3. This learning experience was boring and did not motivate me.
4. I want to create a data story and feel empowered to do so.
5. Data stories are not for me.

Items in blue were derived from *Do they See it Coming? Using Expectancy Violation to Gauge Success of Pedagogical Reforms.*

Items in orange were taken from the *Clinical Research Appraisal Inventory*.

Check the appropriate box to indicate your opinion about today’s learning activity.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Extremely easy | Somewhat easy | Neither easy or difficult | Somewhat difficult | Extremely difficult |
| Overall, how would you rate the difficulty? |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | A great deal | A lot | A moderate amount | A little | None at all |
| How much effort did you need to expend? |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Extremely satisfied | Somewhat satisfied | Neither satisfied or dissatisfied | Somewhat dissatisfied | Extremely dissatisfied |
| Which of the following best describes your feeling of satisfaction? |  |  |  |  |  |

Respond to the following about your experience with the**data story curriculum** today.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Strongly Disagree | Somewhat Disagree | Neither Agree  Or Disagree | Somewhat Agree | Strongly Agree |
| I think that I would like to use this curriculum frequently. |  |  |  |  |  |
| I find the curriculum to be unnecessarily complex. |  |  |  |  |  |
| I think the curriculum is easy to use. |  |  |  |  |  |
| I think that I would need the support of the instructor to be able to use the curriculum. |  |  |  |  |  |
| I found the various functions in the curriculum were well integrated. |  |  |  |  |  |
| I thought there was too much inconsistency in the curriculum. |  |  |  |  |  |
| I would imagine that most people would learn to use the curriculum very quickly. |  |  |  |  |  |
| I found the curriculum cumbersome to use. |  |  |  |  |  |
| I felt very confident using the curriculum. |  |  |  |  |  |
| I needed to learn a lot of things before I could get going with the curriculum. |  |  |  |  |  |

Please provide any other thoughts or suggestions for improving today's task below or on the back.