**Portfolio Review for Stat 495**

This activity will allow you to reflect on your experiences in statistics looking through the materials in your portfolio. You will look at two pieces in depth, and could replicate the process for as many pieces as you like.

Please complete this form, submit it on Gradescope, and bring it to class as directed on Moodle. We will spend that class day on a related discussion. You will then be writing a reflection and setting goals for future work for homework. Note that I’m not grading the content here – but participation is VERY important.

**Portfolio Piece #1**

Consider your earliest portfolio piece (or earliest you want to look at). Review it briefly / skim over it.

1. What year were you in when you generated this piece? How much statistical experience did you have?

2. Which of the following statistical skills are you practicing, applying, and/or demonstrating in this portfolio piece?

Descriptive Statistics Appropriate Graphical Displays

Exploratory Data Analysis Regression (of any kind)

Design Resampling Methods (Bootstrap, Randomization Tests)

Model Assessment (Comparison) Hypothesis Testing (and Sampling Distributions)

Estimation Understanding Variability

Other Statistical Methods Understanding Probability

Working with Statistical Notation / Writing Models

3. If you have a technical appendix or code associated with the piece, which of the following skills are you practicing and/or demonstrating in this portfolio piece? (Skip if not present).

Data wrangling Good programming practices (comments, organization)

Reproducible workflow Understanding code syntax

4. Now let’s consider communication skills in relation to this portfolio piece. Which of the following are you practicing and/or demonstrating?

Using writing to demonstrate and help develop my understanding of new concepts

Use writing to communicate statistical knowledge and understanding to:

A teacher

My classmates / peers

A non-expert audience

The ability to make a clear, convincing, coherent, well-organized argument

Present ideas in a logical order with an appropriate narrative thread

Provide sufficient interpretation/explanation of figures/graphics

Provide an appropriate amount of supporting evidence without too much extraneous information

Provide a conclusion that summarizes your findings, their importance and implications, and sets forth proposals for future work

5. What do you consider as the strengths of this portfolio piece?

6. What do you consider as the weaknesses of this portfolio piece?

7. Does this portfolio piece show proper citation of the data set and other sources? Yes No

**Portfolio Piece #2**

Consider another portfolio piece – we’ll call it the second piece for purposes of this activity, but it doesn’t need to be your second piece (in time order). Review it briefly / skim over it.

1. What year were you in when you generated this piece? How much statistical experience did you have?

2. Which of the following statistical skills are you practicing, applying, and/or demonstrating in this portfolio piece?

Descriptive Statistics Appropriate Graphical Displays

Exploratory Data Analysis Regression (of any kind)

Design Resampling Methods (Bootstrap, Randomization Tests)

Model Assessment (Comparison) Hypothesis Testing (and Sampling Distributions)

Estimation Understanding Variability

Other Statistical Methods Understanding Probability

Working with Statistical Notation / Writing Models

3. If you have a technical appendix or code associated with the piece, which of the following skills are you practicing and/or demonstrating in this portfolio piece? (Skip if not present).

Data wrangling Good programming practices (comments, organization)

Reproducible workflow Understanding code syntax

4. Now let’s consider communication skills in relation to this portfolio piece. Which of the following are you practicing and/or demonstrating?

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Provide an appropriate amount of supporting evidence without too much extraneous information

Provide a conclusion that summarizes your findings, their importance and implications, and sets forth proposals for future work

5. What do you consider as the strengths of this portfolio piece?

6. What do you consider as the weaknesses of this portfolio piece?

7. Does this portfolio piece show proper citation of the data set and other sources? Yes No

Feel free to copy/paste and fill this out for more portfolio pieces if you like.

**Combined**

1. Are any of the portfolio pieces you looked through in application areas of interest to you? Do these application areas elicit passion in you? If not, what application areas would? What makes you passionate about these application areas?

2. Are there any additional skills (in any category), beyond those listed above, that you believe you were practicing or mastering in these pieces? If so, what are those skills?

3. Consider the skills you observed in your portfolio pieces.

a. What skills do you think you have improved the most over time, given your submissions?

b. What activities, classes, or other learning opportunities do you think most contributed to the growth of these skills?