

STAT 672, Spring 2011
Homework 8
due Thurs. April 21

Show all work.

The numbers refers to *Hollander and Wolfe*, if not specified otherwise. Some problems may have additional parts.

1. p. 393, 8.34

Use $B = 1000$ bootstrap replicates. You do **not** need to compare your results with those of Problem 3.28. There is an R `tauboot` function available off the course calendar for you to use with the R `bootstrap` function. (It is a good idea to use the function `set.seed` so that you can reproduce your results.)

The data is available off the class web page at:

<http://www.rohan.sdsu.edu/~babailey/stat672/brain.dat>

2. Problem 1 (cont.)

Now use the BCa method (R `bcanon` function from Lab 3) to find a CI. Use $B = 1000$ bootstrap replicates. What are the estimated values for \hat{z}_o and \hat{a} ? Compare your CI results to your R `bootstrap` function results from Problem 1. (It is a good idea to use the function `set.seed` so that you can reproduce your results.)

The data is available off the class web page at:

<http://www.rohan.sdsu.edu/~babailey/stat672/brain.dat>

3. p. 394, 8.36.

You should start thinking about your Journal Article Assignment: see link off course web page