# YOUR NAME HERE

## FISH 6003: Minor Assignment 2

Please read: Lovely CM, O’Connor NJ, Judge ML. 2015. Abundance of non-native crabs in intertidal habitats of New England with natural and artificial structure. *PeerJ* 3:e1246

<https://doi.org/10.7717/peerj.1246>

Answer the following questions (be brief!):

1. Define the hypothesis in words. /4
2. Describe Y. Is it a count, proportion, etc? /2
   * How was it measured? /1
3. Identify all covariates. What types of data are they (e.g. count, continuous, proportion, binomial, other?) /4
4. Sketch the study design, indicating any dependency structure. /4
   * Note the number of replicates within each treatment group. /2
5. Brainstorm: What sources of uncertainty might there be in the measurements of each covariate, and Y? (At least one per variable) /5
6. Define each of three parts of the GLM:
   * Write the equation for the predictor function\*. /10
   * What distribution defines Y? /4
   * What is the link function? /4