GU Analytics 1

SEND

QUESTIONS RESPONSES 9

9 responses

SUMMARY INDIVIDUAL

Accepting responses

deichmannj@si.edu 1 of 9

Responses cannot be edited

GU Analytics for Nonprofits Projects

We are a student group in Georgetown specialized in quantitative analysis and we feel very humbled and excited about the opportunity to work with you. Through this survey, we hope to gather more information about your projects and we will try our best to match the project with students' skills and interests. We were hoping to get your response by 09/11/2019.

Thank you for filling this out and we really appreciate your time!

* Required

Email address *

deichmannj@si.edu

Your name

Jessica Deichmann

We deeply care about the confidentiality of your data and we will make the best efforts to make sure your data is protected. However, Georgetown does not allow student groups to sign any forms of contracts with outside institutions. Does your project require an NDA? *

- ○ Yes
- ◉ No

Please describe the objective of your overall project in 1-5 sentences

We have data on different groups of plants and animals from a site in the Peruvian Amazon where an oil company did some exploration development. We worked with the company to sample before, during and after their construction and drilling activities. The goal of this work is to determine the impacts of these development activities on plants and animals, and to use these results to develop recommendations to minimize the impacts on biodiversity in this project, as well as future projects in tropical rainforest, one of the most biodiverse ecoregions on the planet.

Please describe the analytical work in your project in 1-5 sentences, aka. how our student group could help?

We have data that is pretty well organized on species occurrence in different areas at different distances from the activities during different time periods (depending on the plant/animal group, we have count data from 3-5 distance categories and 4-5 time periods). We want to look at how the composition/similarity of species, as well as their overall numbers, vary with distance and time. There are a number of covariate variables that were measured that could be included in analyses, including weather and operational activity metrics.

What would be the final deliverable that you hope to see from this project? (eg. a report/ presentation/ etc.)

Scientific publications and presentations; we could also think about turning the results into a "best practices" document that includes recommendations specific for industry on how to minimize their impact on biodiversity.

How long do you think this project will take?

- (●) A semester (until 12/2019)
- ( ) 2 semesters (until 05/2020)

What's the current stage of the project?

- ( ) Not yet started
- (●) In progress
- ( ) Almost done
- ( ) Other:

Any other comments about the project?

The data and writing are at different stages for the different groups of animals and plants. For example, we are almost done and only need to finish the analyses for the amphibian data, but for the plant data, we have not started to really look at those yet. We can do the different groups one by one, so that we achieve a number of deliverables as part of this project.

Any other relevant files you would like to share about the project?

How often are you willing to speak (conference calls or in-person meetings) with the students?

- ○ 1 hour per week
- ○ 1 hour every two weeks
- ○ 1 hour every month
- ◉ Other: 1 hour/week would be fine, but if more is needed to respond to a particular challenge or question, I would be willing to talk more.

Are you based in DC?

- ◉ Yes
- ○ No
- ○ Other: _____

What's the current situation of data?

- ☐ Clean data in one database/shared location (can access through API, excel sheet, etc)
- ☑ Cleaned data in multiple databases/ shared locations that don't talk to each other
- ☐ Uncleaned data in one database/shared location
- ☐ Uncleaned data in multiple databases/shared location that don't talk to each other
- ☐ Need open data sources that students need to discover
- ☐ Other: _____

Please describe the size of the data (roughly how many columns/ features and how many rows/ records in total)

Well, that depends on the animal/plant group - I'll attach a file for amphibians. You can see that the response variables are more or less 3 - abundance of individuals, number of species and composition of species. The independent variables we really want to focus on are time and distance, but there are other enviro variables like temperature, moon phase, and others.

It would be great (and totally optional) you have a sample dataset that we could take a look at! You can upload it here:

raw data for Andre...

op data anal - Mor...

Any other comments with the dataset?

I think that there are enough data in this project in the different plant and animal groups that it could go on for a long time - but we can start with one group (probably the amphibians), see how long it takes, and then move on from there. Any progress that a student could help us make would be appreciated, and we would definitely consider meaningful contributions to statistical analyses as basis for co-authorship on the peer-reviewed publications that we plan to write based on the results.

Thank you so much for filling this form out by 09/11/2019 and we really appreciate your time. We will get back to you as soon as possible. In the meantime, if you have any questions, please feel free to email ty254@georgetown.edu or Analyticsfornonprofits@georgetown.edu

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