Questions

1. Is this a paid position? I ask because if yes then I would need to receive  permission from my advisor before taking on any work.
2. What kind of background knowledge will I need to acquire before working on the spatial data? Have you compiled background already that I would be able to quickly get up to speed?
3. What are the deadlines for the project?
   1. Spatial analysis complete
   2. Data layers created
   3. Publishing
4. Will I be writing any sections of papers or providing only analysis?
5. Is there a required GIS program for this project ie ArcGIS Pro, R, or QGIS?
6. What data formats will be used?
   1. Will data exports be shapefiles, geopackages, CSV, feature layers in ArcGIS Online, other?
7. With my programming and scripting abilities, would you want all work scripted? Will these scripts be shared via any online repositories (i.e. Github) or available only upon request?
8. You mention “we will conduct the analyses of the craniometrics”. Is the we yourself and your partner or does it also include myself?
9. In publications, will I receive an authors credit?

Answers

1. Is this a paid position?  No, it is not – Dr. Bitterman thought you might be interested in this particularly data set.  I really only see you doing a very limited GIS database set up – but we can discuss this in more detail.  I’m not experienced with GIS except as a user.
2. Dr. Joe Hefner (Michigan State University) and I will compile all the data related to the cranial measurements, geographic setting, etc.
3. If possible, we would like to have this completed by January 2022, including a manuscript for submission to a forensic anthropology or bioanthropology journal.
4. We would like you to write the section dealing with your expertise (and yes, you would receive credit as a co-author)
5. We use R to conduct the statistics on the craniometrics as well as looking at discriminant function analysis, etc. What do you suggest?  We are in the early stages of just working on this as an idea (we’ve been working on the discriminant function analysis, but are open to ideas that you have)
6. Probably shape files and/or feature layers in ArcGIS online.
7. We usually set up our data to be available on request, but we are open to suggestions.
8. Dr. Hefner and I will conduct the craniometrics as this is a specialized area of study within forensic anth and bioanthropology.
9. Yes, of course (see answer 4).

Meeting 9/16/21

What is the research question?

Do cranial measurements correlate to geographical groups? Can we correlate cranial measurements with ancestral groups?

Measurements of skulls from india 1909

See where people are moving

Data has general location/province

162 records, enough for spatial autocorrelation?

Output to shapefile, check header, run spatial autocorrelation