# ASSIGNMENT 3

## DUE DATE: Apr 3, 11:59 PM

The assignment consists of an interactive D3 map that reads a dataset or multiple datasets of your own, and the written part to answer the questions listed in this document. Please upload the written part of the assignment on ICON, and also include the address of your main portfolio page which should have a link to the interactive mapping component. You are expected to convert the shapefile to GeoJSON file using the online links and tools, and create a coordinated view of choropleth maps.

Assignment 3 helper repository:

```
https://github.com/geog3540/assignment3helper.git
```

| Item | Description | Grade % |
|---|---|---|
| Choropleth and/or point symbol map | Using the files provided in assignment 3 helper repository create a coordinated view of choropleth maps using your own datasets. Make sure to add the assignment on your main portfolio page as an interactive iframe object or as an image. When you click on the portfolio link on the main page, you should direct to the URL of your assignment. | 60 |
| Questions | Please answer each of the questions and upload your answer in dropbox for lab assignment I on ICON. | 40 |

WRITE-UP (40%)

You are expected to discuss the appropriateness of the classifications for the representation of the underlying phenomenon, and discuss limitations of each. You should be able to justify your choices of class breaks. "The map looks good with this classification" is not a good justification. In your write-up explain why the classification methods selected are, or are not, most suitable for the data. Refer to the text and lectures for justification on why classification methods are suitable or not. Remember to add a text block that names the classification you used on the map. Make a screen capture of the histogram for the classification you used for each map. An example is given below:

## HTML PAGE AND WEB MAPS (60%)

The lab assignment 3 requires you to create an html page that displays the 4 maps (Lung cancer, adult smoking, healthcare cost and percent age over 65). You will use the assignment3helper repository to start with, but embed your own geojson file with four different variables. For each of these variables, you will examine the classification methods to complete your write-up. You are also required to select an appropriate colorbrewer scheme that is different than the one used in the helper html file.