

# STAT 545A Homework Repository

This repository (repo) is where assignments for STAT 545A are to be submitted.

STAT 545A is a course offered by the University of British Columbia to graduate students from a variety of disciplines to learn how to manipulate data with R.

For more information about the course go to the Course website

My name is Linda Dumalo and I am currently doing a M.Sc of Biochemistry and Molecular Biology in Dr. Lindsay Eltis's lab.

My research interests are:

- Enzymology  
-Specifically, enzyme kinetics
- Structural biology
- Microbiology
- Conducting proper experiments *controls, controls, controls*

Sometimes, science does not work or your data is less than stellar and not expected so a favourite quote from a fellow lab member is

*It is what it is*

## Going Macro: Gapminder Exercise

The data from gapminder is on a much larger scale than enzymes since it looks at 6 different indicators of the countries of the world. Specifically they are::

```
## [1] "country" "continent" "year" "lifeExp" "pop" "gdpPercap"
```

The number of rows was 1706 which is definitely a lot more than the number of countries in the world!

```
## [1] 1704
```

The reason for this is that when gapminder is downloaded it is organized by country alphabetically and then by the year.

```
## # A tibble: 6 x 6
##   country    continent  year lifeExp    pop gdpPercap
##   <fct>      <fct>    <int>   <dbl>   <int>   <dbl>
## 1 Afghanistan Asia      1952    28.8  8425333    779.
## 2 Afghanistan Asia      1957    30.3  9240934    821.
## 3 Afghanistan Asia      1962    32.0 10267083    853.
## 4 Afghanistan Asia      1967    34.0 11537966    836.
## 5 Afghanistan Asia      1972    36.1 13079460    740.
## 6 Afghanistan Asia      1977    38.4 14880372    786.
```