

Homework 1

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Introduction

My name is GONG Kuiyuan. I come from China and I probably come from a very different department from other students, which is the Department of Agricultural and Resource Economics. The reason why I choose to take this course is to confront the kind of “fear” of coding and programming in my mind because I have been using Stata ever since I entered university. Yes, I am the spoiled kid who uses Stata a lot! During the winter break, I tried to learn LaTeX myself and found that coding wasn’t that scary, which is the tipping point that makes me here. Therefore, I really hope that I can learn and master a lot from this course.

Here is a photo of me:



Please check out the location of [my hometown](#) and [my LinkedIn](#) page (even though there is nothing here).

My hometown

My hometown is located in the South China. This city is small compared with other cities in China. The fun fact is that my hometown was named by a very famous politician who was born there and named “Sun Yat-sen”, my hometown wouldn’t have become a city but a county if it weren’t for him.

What I want to learn

- The correct way of data cleaning and processing. I have been using Excel and Stata to process my data, but those steps were barely recorded. I want to make everything more transparent.
- I heard that R is also quite similar with Python and I am learning these two languages at the same time. I hope this course can help to foster a sort of mentality of coding that I can apply to other computer language.
- Using terminals to manipulate R and Python seems to be very cool for me. Therefore, I truly expect to also learn something about the use of terminals like VS code.

Homework tasks

1. Include a photo of yourself (instead of chiitan). **Finished!**
2. Write an introduction of yourself and explain why you are interested in the course. **Finished!**
3. Write a small description of where you are from and include a link to your hometown either on Wikipedia or Google maps (or both!). **Finished!**
4. Uses – to make a list of 3 things you hope to learn in this course. **Finished!**
5. Write a bit of R code: define a variable, print it, etc. Anything. Just get some practice including R code in your homework. **Finished!**

To compile your quarto document, you need to install package `quarto` and then you compile your `.qmd` file using the `quarto_render()` function. Be sure to follow the specified file naming convention.

More practice

An example quarto document. This is my thesis. My research question is blah, blah, blah. There is a relationship between `mpg` and `disp`.

```
lm(mpg ~ disp, dplyr::filter(mtcars, mpg != 8))
```

Use a blank link between paragraphs. You can use a bit of **bold** or *italics*.

Use backticks to indicate `code` that will be rendered in monospace.

Here's a list:

- an item in the list
- another item
- yet another item

You can add latex to write equations.

$$y_i = \alpha_0 + \beta_0 X_i + \beta_1 Contol_i + \epsilon_i$$

You can include blocks of code using three backticks:

```
n <- 200
x <- 1000
x*n
```

```
[1] 2e+05
```

```
y <- x*n
length(y)
```

```
[1] 1
```

```
s <- c(n, x, y)
length(s)
```

```
[1] 3
```

```
s <- s/2  
print(s)
```

```
[1] 1e+02 5e+02 1e+05
```

You can also include inline code say the mean of \mathbf{x} , 1000, or the length \rightarrow of \mathbf{x} , 1. If you add an \mathbf{r} to the beginning of the backticks it will actually run the code, otherwise it just puts it in code case.

```
1000 1 2  $\times 10^8$ 
```

It'll figure out numbered lists, too:

1. First item
2. Second item

And it's easy to create links, like to a list of [CRAN Packages](#).

This will be the end of Homework 1.