

Purposes of tutorials

The tutorials aim to provide supplementary knowledge, which may be

- a deeper **explanation of theories** that you have learnt in lectures,
- practical techniques for **manual calculation**, or
- some abstract and even mind-blowing **philosophical concepts**.

It is normal for you to find my tutorials a bit deviating from the lectures, but I do want to broaden your horizons. I believe that, instead of memorizing abundant theories by rote, it is more fruitful and surely more interesting to figure out how physicists, mathematicians, economists, philosophers, etc. come up with equally useful but oddly contradictory ideas.

The motto of this course is

Try not to be a technician; be a thinker. Just keep thinking about how and why.

About projects and assignments

You will have two computational projects and four assignments. The computational projects focus on analysis of real data, and they each contribute 35% to your final grade. Details will be announced in due course. Notice that, however, **the tutorials are not going to emphasize programming**, so you need to figure out how to translate various concepts into code by yourselves.

In contrast, the assignments focus on manual calculation. They will totally contribute 25% to your final grade. Each assignment lasts for two weeks. Sometimes I may also discuss examples somewhat relevant to your assignments so that you may find the tutorials a bit more valuable.

Contact

Please feel free to contact me at yipcy@ust.hk if you have any questions.