# Financial Econometrics

## Introduction

CHEUNG Ying Lun
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# About me



- My name: CHEUNG Ying Lun
- My homepage: `https://cheungyinglun.github.io`
- My email: cheungyinglun@cueb.edu.cn
- My office: 诚明楼321室
- My office hour:
  - Mon 10:00-12:00
  - Please write an email announcing your concern before showing up in the office.

# Course information



- Course title: Financial Econometrics
- Course website (first part only): `https://cheungyinglun.github.io/teaching/2019-09-financial-econometrics`
- Language of instruction: English
- Instructors:
  - Part 1: CHEUNG Ying Lun
  - Part 2: Sui LUO
- Class venue and time:
  - Mon 08:00-10:00 博学楼 606
  - Wed 10:00-12:00 博学楼 502

# Assessment methods



First half (50% of course grade):

- Class participation: 10%
- Assignments: 10%
- Exam: 80%

1. No stupid questions!

# Course schedule (First half)



1. Primer on financial econometrics
   - Price, returns, and compounding
   - Review of statistical methods
   - Value at risk and expected shortfall
2. Stationary time series
   - Market efficiency hypothesis
   - Stationarity and ergodicity
   - ARMA model
   - Estimation, inference and model selection
   - Forecasting
3. Nonstationary time series
   - Deterministic trends and unit root
   - Unit root tests
   - ARIMA model
   - *Price bubbles (Tentative)*