

# Statistics with an Introduction to STATA

In Cooperation with the GRADE Center GSEFM

## Trainer



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Ph.D. candidate in Economics at the Graduate School of Economics, Finance, and Management (GSEFM). Bachelor's degree in Economics from Xi'an Jiaotong University and a Master's degree in Economics from the National University of Singapore.

Research focus: International trade, technology, and wage inequality.

## Objective

The GRADE Center GSEFM opens its „pre-semester courses“, held by advanced PhD candidates, to all PhD candidates, registered at GRADE. These courses cover different topics.

## Description

1. Introduction to STATA
2. Probability
3. Distribution of Random Variables (Theory and Numerical Illustration in STATA)
  - Bernoulli and Poisson Distributions
  - Exponential Distribution
  - Normal Distribution
  - Transformations of Normal Random Variables: Chi Square, t and F Distributions
4. Multivariate Random Variables (Theory and Numerical Illustration in STATA)
  - Multivariate Normal Distribution
  - Expectations
  - Covariances and Correlation
  - Conditional Distributions
5. Moment Generating Functions and Transformations of Distributions

## Conditions

Students are expected to have a solid undergraduate background in mathematics. Students missing some of this background are expected to have worked through the following reference prior to the beginning of the course:

*Chiang, A.C. and K. Wainwright (2005): Fundamental Methods of Mathematical Economics, Mc Graw-Hill Irwin.*

On-site sessions will take place if the epidemiological situation and the prevention guidelines issued by Goethe University make it possible. Otherwise, they will be replaced by online sessions. Information on the subject will be shared by email at least one week before the beginning of the program



## Organizational Information

Language	English
Target group	Doctoral Candidates at all stages from all faculties
Date	Monday-Thursday, 19-22 October 2020, 9:00 – 15:00
Registration	<a href="#">For registration click here</a>