Summer School in Mathematical Economics & Financial Econometrics

Time: 08th – 26th June, 2020 Venue: University of Nottingham Ningbo China

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9:00 – 9:30am, Monday 08th Registration & Welcoming Session

Week 1					
	Monday 08	Tuesday 09	Wednesday 10	Thursday 11	Friday 12
9-11	9:30-11 Probability I (CQ)	Econometrics I: Hypothesis testing (ZL)	Econometrics II: Simple Regression (ZL)	Econometrics III: Multiple Regression (ZL)	Optimization I (SMD)
11-12	Consultation Hour				
14-16	Probability II (CQ)	Calculus I (SMD)	Calculus II (SMD)	Calculus III (SMD)	Optimization II (SMD)
16-17	Consultation Hour				

Week 2

	Monday 15	Tuesday 16	Wednesday 17	Thursday 18	Friday 19
9-11	Probability III (CQ)	Linear Algebra I (XQ)	Fundamentals of Time Series (ES)	Non-Stationary Time Series I: Fundamentals & Analysis (ES)	Non-Stationary Time Series II: Techniques & Applications (ES)
11-12	Consultation Hour				
14-16	Estimating Production Functions (SA)	Endogeneity and Instrumental Variables (SA)	Linear Algebra II (XQ)	Linear Algebra III (XQ)	Arbitrage Theory with Application to Option Pricing I (SM)
16-17	Consultation Hour				

Week 3

	Monday 22	Tuesday 23	Wednesday 24	Thursday 25	Friday 26
9-11	Introduction to VBA (WL)	Understanding Financial Market Data (CW)	Risk management I (WL)	Risk management II (WL)	Probability IV (CQ)
11-12	Consultation Hour				
14-16	Arbitrage Theory with Application to Option Pricing II (SM)	Modern Portfolio Theory and Applications (CW)	Exam* (14:30-16:00)	Using R for Financial Econometrics (CW)	Axiomatic Methods in Economics (CQ)
16-17	Consultation Hour				

*Examination:

Length: 90 minutes

Format: answer three questions out of four. Calculators allowed.

Prerequisites: (1) Basic knowledge of calculus and linear algebra (e.g., Knut Sydsæter, Peter Hammond, Arne Strøm and Andrés Carvajal (2016), *Essential Mathematics for Economic Analysis*, Pearson Education); (2) Basic knowledge of introductory level of econometrics/statistics.

Teachers:

Prof. Simon Appleton (SA), School of Economics, UNNC Prof. Weimin Liu (WL), Business School, UNNC Dr Chen Qu (CQ), School of Economics, UNNC Dr Chaoyan Wang (CW), School of Economics, UNNC Dr Eric Scheffel (ES), School of Economics, UNNC Dr Sinchan Mitra (SM), School of Economics, UNNC Dr Stuart McDonald (SMD), School of Economics, UNNC Dr Xuewen Qian (XQ), School of Economics, UNNC Dr Zhenjiang Lin (ZL), School of Economics, UNNC