

Advanced Research Methodologies for Social Science Research

Economics Department, Presidency University is organising a funded International Workshop on **Advanced Research Methodologies for Social Science Research** for Research Scholars and young faculty in June 2021. The workshop is funded by **The International Growth Centre (IGC)**. The Workshop will be held online using Google Meet. Both theoretical and computing aspects (using Stata) will be covered in the lectures.

PROGRAMME

The programme of the Workshop is given below:

Theory and Practice of Structural Equation Models – An Introduction

Professor Jaya Krishnakumar

Geneva School of Economics and Management, University of Geneva

7, 8 & 9 June 2021

Demand and Welfare Analysis in Discrete Choice Models

Dr. Debopam Bhattacharya

Reader, Trinity College, University of Cambridge

18 & 19 June 2021

REGISTRATION

Registration for the lectures by Prof. Krishnakumar is compulsory, with a fee of **Rs.400 + GST @ 18% (Total: Rs.472)**. It will also cover the lectures by Dr. Bhattacharya. The fee is non-refundable (unless the workshop is cancelled from our end) **irrespective of the number of sessions you choose to attend**. Interested applicants are requested to send an email to presiecon2019@gmail.com, and attaching the proof of the bank transfer. Payment may be made at the SBI Collect portal: <https://www.onlinesbi.com/sbicollect/icollecthome.htm>. You have to input the following information:

State: West Bengal

Type of Corporate / Institution: Educational Institute [Go]

Educational Institutions Name: Presidency University [Submit]

Select Payment Category: Workshop on Advanced Research Methodology [Submit]

After payment is complete please download the receipt (or take a screen shot) and email it to us. In the subject line please write “Registration for Workshop”, and in the body of the email please give the following information. We will issue completion certificates after the Workshop ends.

Name:

Designation:

Department:

Institute:

Email 1:

Alternative email (Optional):

Mobile:

Alternative mobile (Optional):

Please attach proof of bank transfer; otherwise your application will be rejected. We will NOT accept provisional requests for registration.

Receipt of the bank transfer should be attached with the email stating applicant’s details. The window for paying fees is 20 May to 4 June 2021; emails requesting registration will be accepted till 5 June 2021 (5.00 PM); however, proof of the bank transfer should be provided with the email. You may call 9830467551 in case of any difficulty in registration (**between 8.00 and 9.30 PM**).

RESOURCE PERSONS

Prof. Jaya Krishnakumar, Professor of Econometrics, University of Geneva, Switzerland

Prof. Krishnakumar’s research interests include panel data econometrics, multivariate models, and quantitative methods for multi-dimensional well-being analysis. She has publications in international econometrics/economics journals such as *Econometric Theory*, *Journal of Econometrics*, *Oxford Bulletin of Economics and Statistics*, *Computational Statistics and Data Analysis*, *Journal of Public Economics*, *European*



Economic Review, *Health Economics*, *Review of Income and Wealth*, *Social Indicators Research*, *World Development*, *Journal of Human Development and Capabilities*. She is both an editor and an author of chapters in Econometrics books in collections such as *Lecture Notes in Economics and Mathematical Systems* (Springer), *Contributions to Economic Analysis* (Elsevier) and *Advanced*

Studies in Theoretical and Applied Econometrics (Kluwer Academic, Springer). She has also contributed chapters in the Handbook of the Capability Approach (Cambridge University Press, CUP), New Frontiers of the Capability Approach (CUP) and Research in Social Science and Disability (Emerald Publishing). She is a Fellow of the Human Development and Capability Association, an associate editor of the International Journal of Public Health, the Journal of Human Development and Capabilities, a referee for several top journals, a leader of various research projects with external funding, and a regular external expert for evaluating grant proposals. She is also a member of the Statistical Advisory Panel for the Human Development Reports of the UNDP, the Human Development Report Advisory Panel 2017, the academic experts panel for World Bank's Women, Business and The Law Index 2019, the International Scientific Committee of COSA (Committee on Sustainability Assessment), as well as an Advisor for the SDG Platform being developed by B-Lab along with the UN Global Compact.

Dr. Debopam Bhattacharya

Reader in Economics, Trinity College at Cambridge University.



After completing B. Stat. from Indian Statistical Institute, he studied M.A. in Economics from Delhi University, and M.A. in Econometrics and Mathematical Economics from London School of Economics. His doctoral research was undertaken in Princeton University, with Sir Angus Deaton as one of his Thesis Committee members. After brief stints at Dartmouth College, Cowles Foundation at Yale University, and Oxford University, Dr. Bhattacharya joined Trinity College, Cambridge University.

Dr. Bhattacharya's research interests are Empirical Microeconomics and Micro-econometrics. He has a distinguished publication record, publishing in *Econometrica*, *Journal of Econometrics*, *Quantitative Economics*, *Review of Economics and Statistics*, *Econometric Theory*, and other prestigious journals. Dr. Bhattacharya has been associated with the Editorial boards of *Journal of Econometrics*, *Journal of Business and Economic Statistics*, and *Oxford Bulletin of Economics and Statistics*, and involved with the organisation of meetings of the Royal Econometric Society. He has also been a Consultant for the Centre for Health Services Economics and Organization (CHSEO), funded by the UK Department of Health, and for the Pew Charitable Foundation project on Economic Mobility. He is currently working on a project titled "Empirical Demand and Welfare Analysis (EDWEL)" for which he has received a 5-year "Consolidator" grant from European Research Council.

DETAILED PROGRAMME

Theory and Practice of Structural Equation Models – An Introduction

Structural equation modelling (SEM) is a methodology for representing, estimating, and testing a network of relationships between variables (measured variables and latent constructs). It has become one of the most popular methodologies in quantitative social sciences. The popularity of SEM can be attributed to the sophistication of the underlying statistical theory, the potential for addressing important substantive questions, and the availability and simplicity of software dedicated to structural equation modelling.

June 7, 2021

Session 1 (2 hours – 13:30-15:30):

1. Introduction to Latent Variable Modelling
2. Factor Analysis (FA)

Session 2 (1 hour – 17:00-18:00):

3. Principal Components (PC) and its link to FA
4. Multiple Indicators Multiple Causes (MIMIC) models

June 8, 2021:

Session 1 (2 hours – 13:30-15:30):

5. Structural Equation Models (SEM)

Practical work

Session 2 (2 hours – 17:00-19:00):

Practical work (contd.)

June 9, 2021:

Session 1 (2 hours – 13:30-15:30):

6. Extensions of SEM
7. Classical Approaches
8. Endogeneity Issue

Session 2 (1 hour – 17:00-18:00):

Concluding remarks

Demand and Welfare Analysis in Discrete Choice Models

Welfare analysis of market interventions are ubiquitous in economic applications in labour, IO and trade. Examples include financial aid and conditional cash transfers to encourage school and college attendance, subsidies for using public transport, taxing unhealthy food consumption etc. This talk will discuss some recent econometric developments in demand and

welfare analysis in settings of binary and multinomial choice, such as school-attendance, choice of mode of transportation etc. The crucial aspect is the incorporation of unobserved heterogeneity in individual preferences. Empirical implementation of the methods will be discussed. Knowledge of basic consumer theory (e.g. what is a compensating variation) and undergraduate econometrics (e.g. probit and logit models) would be useful.

Date and Time:

Session 1: 18th June 2021 (Friday), 8.00 to 9.30 pm

Session 2: 19th June 2021 (Saturday), 3.30 to 5.00 pm