International Summer School
An Introduction to Modern Microeconometrics Using Stata
A Simulation-Based Approach
June 17 – 21, 2024
Department of Humanities and Social Sciences, IIT Kharagpur, INDIA

In this intensive five-day summer school, participants will explore modern microeconometric methods and learn how to use them in Stata. Through hands-on activities and simulation techniques, attendees will gain a comprehensive understanding of these models. Topics include basic linear and nonlinear models with both exogenous and endogenous covariates, stack-the-moment-equation inference, and solutions for multiple comparison problems. Additionally, the course covers causal inference for cross-sectional data, difference-in-difference methods for panel and repeated-cross-sectional data, as well as covariate selection methods like the lasso, with a focus on conducting valid inference post-selection.

Important Dates

- Last Date of Application: April 20, 2024
- Selection of Participants: April 24, 2024
- Last Date of Registration and Payment of Fee: April 30, 2024
- Invitation Letters will be sent to the participants by May 7, 2024

Registration Fees (Including GST)

<table>
<thead>
<tr>
<th>Reg. Type</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Post-graduate Students/ Research Scholars*</td>
<td>INR 14,160/- only</td>
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<tr>
<td>Professionals/ Faculty Members **</td>
<td>INR 17,700/- only</td>
</tr>
<tr>
<td>International Participants (only for SAARC Countries) **</td>
<td>USD 300/- only</td>
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* Excluding accommodation, which will be in SAM Guesthouse on a sharing basis (AC Rooms) @ INR 350/- per person per day
** Excluding accommodation, which will be in Technology Guesthouse on a sharing basis (AC Rooms) @ INR 1,120/- per person per day (including GST)

Notes: 1. Seats are limited and vary across categories
2. Payments will be after selection only and in online mode. The link and QR Code will be provided later.

Topics

- Basic tools; Linear and non-linear models with exogenous covariates; Stacking the moment equations
- Linear and non-linear models with endogenous covariates (Part I); Endogenous sample selection
- Causal inference for cross-sectional data (Part I & II)
- Causal inference with endogenous treatments; Difference-in-Difference estimators for causal inference for repeated cross-sectional and panel data
- Inference after covariate selection (Part I & II)

Resource Person
Dr. David Drukker
Associate Professor, Sam Houston State University
Former Executive Director of Econometrics
StataCorp, USA

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Program Schedule  
June 16 – 21, 2024  
Venue: Computer & Informatics Centre (CIC) Lab - IIT Kharagpur

<table>
<thead>
<tr>
<th>Sunday, June 16</th>
<th>Monday, June 17</th>
<th>Wednesday, June 19</th>
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</thead>
</table>
| Registration: 4 PM – 5:30 PM | Registration: 8 AM – 9 AM  
Inauguration: 9 AM – 9.30 AM  
High Tea: 9:30 AM – 10 AM  
Session: 10 AM – 1.30 PM  
Lunch: 1.30 PM – 2.30 PM  
Session: 2.30 PM – 3.45 PM  
Tea Break: 3.45 PM – 4 PM  
Session: 4 PM – 6 PM | Session: 9 AM – 11.30 AM  
Tea: 11.30 AM – 12 AM  
Session: 12 PM – 1 PM  
Lunch: 1 PM – 2 PM  
Session: 2 PM – 4.30 PM  
Tea Break: 4.30 PM – 5 PM  
Session: 5 PM – 6 PM |

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<thead>
<tr>
<th>Tuesday, June 18</th>
<th>Thursday, June 20</th>
<th>Friday, June 21</th>
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</thead>
</table>
| Session: 9 AM – 11.30 AM  
Tea: 11.30 AM – 12 AM  
Session: 12 PM – 1 PM  
Lunch: 1 PM – 2 PM  
Session: 2 PM – 4.30 PM  
Tea Break: 4.30 PM – 5 PM  
Session: 5 PM – 6 PM | Session: 9 AM – 11.30 AM  
Tea: 11.30 AM – 12 AM  
Session: 12 PM – 1 PM  
Lunch: 1 PM – 2 PM  
Session: 2 PM – 4.30 PM  
Tea Break: 4.30 PM – 5 PM  
Session: 5 PM – 6 PM | Session: 9 AM – 11.30 AM  
Tea: 11.30 AM – 12 AM  
Session: 12 PM – 1 PM  
Lunch: 1 PM – 2 PM  
Session: 2 PM – 5 PM  
Valedictory: 5 PM – 5.30 PM  
High Tea: 5.30 PM – 6 PM |

**NOTE:** Candidates are encouraged to bring their own laptops for their personal use and work/practice
Organizing Committee

Convenors

Professor Kishor Goswami
Head, Department of HSS, IIT Kharagpur

Professor Hiranya K. Nath
Department of Economics & International Business
College of Business Administration
Sam Houston State University, Huntsville, USA

Organizing Secretaries

Dr. Prantik Bagchi, Assistant Professor, Department of HSS, IIT Kharagpur
Dr. Krittika Banerjee, Assistant Professor, Department of HSS, IIT Kharagpur

Students Secretaries

Department of Humanities and Social Sciences
IIT Kharagpur

Ms. Dwiti Baruah Thapa
Ms. Jigyasa Sandilya
Ms. Plawana Borthakur
Mr. Partha Pratim Saikia
Mr. Ubaid Mushtaq
Mr. Palkit Lohia

Contact Persons

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