RISIS

RESEARCH INFRASTRUCTURE FOR SCIENCE AND INNOVATION POLICY STUDIES

Università della Svizzera italiana

MULTILEVEL MODELLING IN HIGHER EDUCATION AND RESEARCH POLICY INTRODUCTION

Lugano, 19th of October, 2020

Benedetto Lepori

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Why this course

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- Many empirical settings in research policy and higher education are inherently multi-level:
  - Universities and firms nested within countries
  - Research groups within universities
  - Individuals within research groups
- There is evidence that cross-level effects are indeed important
  - And therefore multi-level methods are required
- Multi-level methods have been rarely used in the community
  - As an outcome of the prevalence of econometric approaches preferring other ways of dealing with nestedness (clustering of SE, country dummies)

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RISIS (www.risis2.eu)

- Developing a data infrastructure on research, higher education and innovation studies
  - Supported by the EU as a long-term initiative
- What RISIS offers
  - Access to datasets (publications, patents, projects, etc.) and development of novel datasets
  - Dedicated services (geocoding, actors' registers)
  - Training and methodological support
  - Indicators for S&T studies
  - Research and policy seminars

Course objectives

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- Provide an introduction to multi-level modeling and its theoretical foundations
- Introduce to statistical models and their implementation in Stata
- Discuss when these methods are useful for our field and understand their strenght and weaknesses
- Practice in designing models, estimating them and interpreting results

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About us

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- Lecturers
- Short presentation of participants
  - Your background
  - Interest in the topic
  - Examples of multilevel structures in your research

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Course organization

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- Today 19.10 from 9 AM to 4 PM
  - Conceptual bases of multilevel modelling
  - Comparing approaches to multi-level structures
  - Analyzing higher education funding
  - Stata laboratory
  - Preparation of group work
- Group work assignment and discussion slots with instructor
- Monday 26.10, from 9 AM to 1 PM
  - Presentation of results and discussion

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Practical information

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METHODOLOGICAL COURSE

Applications of multi-level models to research policy and higher education studies

19th of October and 26th of October 2020

MONDAY 19th of October

Morning

9:00-09:15	Introduction to this Webinar Course.
09:15-10:15	Lecture: Conceptual bases of Multilevel Modelling. (Barbara Antonioli Mantegazzini)
10:30-11:30	Lecture: Applications of Multilevel Modelling in Research Policy and Higher Education. (Benedetto Lepori)

Afternoon

13:30-14:30	Lecture: Multilevel Modelling with STATA. An example. (Barbara Antonioli Mantegazzini)
14:30 -15:15	Lecture: Applications of Multilevel Modelling in Research Policy and Higher Education. (Benedetto Lepori)
15:30 –16:00	Introduction to Group Exercise and Group Planning Session.

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Practical information

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THURSDAY 22th of October

Afternoon

A midweek virtual intermediate discussion slot to help and support in the group exercises is scheduled from 4 p.m. – 6 p.m. (about twenty minutes for each group).

MONDAY 26th of October

Morning

9:00-11:45	Group Presentations and discussion.
12:00-12:30	Closing Remarks and Recap. (Benedetto Lepori)

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Working Groups

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	SURNAME	NAME	AFFILIATION	Country
1	Acciai	Claudia	University of Copenhagen	Denmark
2	Andreadakis	Zacharias	Western Norway University of Applied	Norway
3	Cai	Xiaojing	Zhejiang University	China
4	Di Leo	Simone	La Sapienza Roma	Italy
5	Doerffer	Nadine	Leibniz Center for Science and Society (LCSS)	Germany
6	Ferrándiz	Esther	University of Cádiz	Spain
7	Gerganov	Alexander	Bulgarian Academy of Sciences	Bulgaria
8	Haas	Christina	University of Luxembourg	Luxembourg
9	Ilieva-Trichkova	Petya	Bulgarian Academy of Sciences	Bulgaria
10	Ivleva	Daria	Indiana University, Bloomington	USA
11	Jin	Seonmi	Indiana University, Bloomington	USA
12	Klim	Zack	New York University	USA
13	Kroher	Martina	Leibniz Center for Science and Society	Germany
14	Leon	Maritza	Complutense University of Madrid-Spain	Spain
15	Li	Huan	The University of Hong Kong	Hong Kong
16	Lozano	Martin	UDEM	Mexico
17	Mihut	Georgiana	Economic and Social Research Institute	Ireland
18	Moradi	Shima	National Research Institute for Science Policy	Iran
19	Mwaura	Samuel	University of Strathclyde	UK
20	Nakano	Silvia	Université de Montréal	Canada
21	Oelker	Stefanie	Leibniz University Hannover	Germany
22	Okhovati	Maryam	Kerman University	Iran
23	Pineda	Pedro	Deutsches Zentrum für Hochschul- und Wissens	Germany
24	Püttmann	Vitus	Leibniz University Hannover	Germany
25	Quaglia	Giammarco	Università La Sapienza Roma	Italy
26	Shcheglova	Irina	National Research University Higher School of Economics	Russia
27	Souza	Daniel	University of Turin	Italy
28	Stucke	Katharina	Leibniz University Hannover	Germany
29	Szabo	Melinda	European Quality Assurance Register for Higher Ed	Belgium
30	Tsivinskaya	Angelika	European University at Saint Petersburg	Russia
31	Wakhungu	Phoebe	Indiana University, Bloomington	USA
32	Zacharewicz	Thomas	University of Seville	Spain

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THANK YOU !

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RISIS2 EU PROJECT

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University of Sussex · DZHW Deutsches Zentrum für Hochschul- und Wissenschaftsforschung · University of Strathclyde Glasgow · Sapienza Università di Roma · NIFU Nordisk institutt for studier av innovasjon, forskning og utdanning · CSIC Consejo Superior de Investigaciones Científicas · Samuel Neaman Institute for National Policy Research · Technology Centre ASCR · ATHENA Research & Innovation Information Technologies