

Regression Models on Survey Data

Live Session

8th February, 2021

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Agenda for Today

- Announcements / Reminders
- Revision Question (Poll)
- Go through Survey GLM Tutorial
- Discussion Question: Coding data and interpretation
- Open floor for questions

Where we are

- This week: GLMs on survey data
- 15th Feb: No class – Reading week
- 22nd Feb: No class – Workshop week
 - Social Research Dissertation Workshop 22nd Feb, 6pm
- 1st March: Project Deadline (12 midday)
- 1st & 8th March: Multilevel models
- 15th March: Revising for the exam

Note: The exam timetable will be published in March

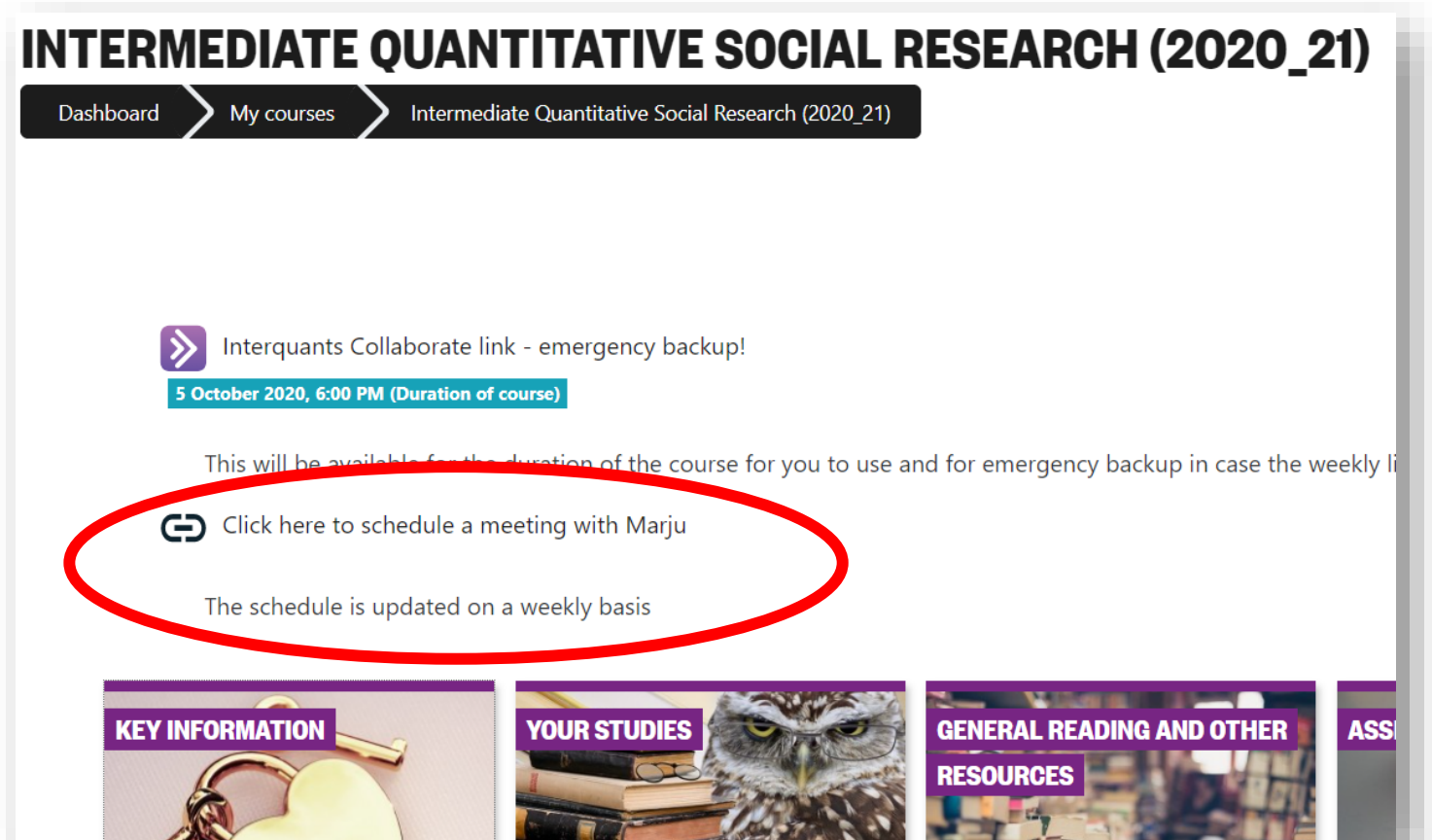
Meetings

I will continue to hold meetings through Reading Week and Workshop Week.

Sign-up link on Moodle

We can discuss:

- Projects
- Class content



The screenshot shows the Moodle course page for 'INTERMEDIATE QUANTITATIVE SOCIAL RESEARCH (2020_21)'. The breadcrumb trail at the top indicates the path: Dashboard > My courses > Intermediate Quantitative Social Research (2020_21). A purple icon with two right-pointing arrows is followed by the text 'Interquants Collaborate link - emergency backup!'. Below this, a teal box contains the text '5 October 2020, 6:00 PM (Duration of course)'. A line of text states: 'This will be available for the duration of the course for you to use and for emergency backup in case the weekly li'. A red oval highlights a link icon (a chain link) followed by the text 'Click here to schedule a meeting with Marju'. Below the oval, it says 'The schedule is updated on a weekly basis'. At the bottom, there are four navigation tabs: 'KEY INFORMATION' (with a key icon), 'YOUR STUDIES' (with a stack of books icon), 'GENERAL READING AND OTHER RESOURCES' (with a bookshelf icon), and 'ASS' (partially visible).

A question from last time

Are MSc and MRes degrees at Birkbeck classified based on marks?

YES

Classification system (from the Registry pages):

- Distinction: 70% or above
- Merit: 60% - 69.99%
- Pass: 50% - 59.99%

For a Distinction, Masters students must typically also achieve a distinction mark in the dissertation.

POLL

Treatment of ordinal variables

What is an ordinal variable?

Ordered levels of a factor

Not equidistant

No meaningful 0 necessary

Examples?

Age groups

School years

Responses on a Likert scale: do you like math?

NO 1 2 3 4 5 YES

Treatment of ordinal variables

Independent Variables

No “perfect” treatment of ordinal ***predictor variables*** in R regression models. Coded either as

1. Categorical (factor) or
2. Continuous (numeric)

Dependent Variables

If the ***outcome variable*** is ordinal, you can run an “ordinal logistic regression”

- See Additional Resources on Moodle (Not on the exam)

Discussion question

Which of the two “importance of religion” variables from CES would you use in an analysis?

Factor better: can see all the levels individually, easier to talk about the levels
No real linear relationship

Continuous better: Variables that "feel" more continuous (political affiliation, scores on test)
If there are many variables with many levels, makes summary tables easier to track

