Autumn School

Econometric analysis of farmers' adoption decisions of sustainable agricultural practices

Westminster International University in Tashkent (WIUT)

7–11 October 2024, Tashkent

Background

The Autumn School is designed to provide PhD students, researchers, and analysts with training in the quantitative analysis of farm survey data using the statistical software Stata. Participants will engage in lectures and practical exercises focusing on various econometric methods, including OLS, Probit, and Endogenous Switching Regression models. The lectures will incorporate exemplary articles from agricultural economics journals, providing hands-on exercises in data analysis and interpretation of estimation results. These exercises will be structured as group work, allowing participants to apply the quantitative methods they learn.

This Autumn School is part of the UzFarmBarometer project, a collaborative initiative between Westminster International University in Tashkent (WIUT) and the Leibniz Institute of Agricultural Development in Transition Economies (IAMO). The project aims to understand the motivations and constraints faced by farmers in Uzbekistan, with the goal of developing strategies to encourage voluntary adoption of sustainable agricultural practices (SAP). A key component of the project is to collect and analyze high-quality, up-to-date farm-level data, and to disseminate theories and methods for enhancing research capabilities in agricultural economics.

Instructors

Dr. Nodir Djanibekov and Dr. Abdusame Tadjiev (both from IAMO)

Requirements to participants

The Autumn School has 15 available places and is open to any registered PhD student or researcher interested in econometric analysis of farm survey data. Prospective applicants should be aware of the following:

- The program requires in-person participation from 10:00 AM to 5:00 PM each day
- Preference will be given to applicants who are either current PhD students or are working on topics related to economic analysis of the agricultural or farming sector
- A working knowledge of English is required as exercise materials will be in English
- While experience in economics, agricultural economics, or agricultural policy analysis is preferable, knowledge of Stata software or econometrics is not required
- Participants must bring their own laptops with Microsoft Word, Excel, and PowerPoint installed
- Participation in the Autumn School is free of charge. However, participants are responsible for covering their own travel, accommodation, and meal expenses
- Upon successful completion of the program, participants will receive a certificate of attendance.

Application

Interested participants are requested to send the following documents in pdf format via email to djanibekov@iamo.de with '*WIUT/IAMO Autumn School Application*' in the subject line:

1. A one-page motivation letter describing applicant's field of expertise and research, and explaining the reasons of interest in participating in the Autumn School
2. (if applicable) 1-page description of own PhD research indicating research topic, questions, applied theory, data and methodology
3. Curriculum vitae on two pages
4. English language certificate, if available (IELTS, TOEFL).

The application deadline of all documents is **15 July 2024**.

Participants will be selected based on their application documents. The selection results will be sent via email by **1 August 2024**.

Important deadlines

15 July 2024:	Submission of application documents
1 August 2024:	Notification of acceptance
7–11 October 2024:	Autumn school at WIUT

Venue

Westminster International University in Tashkent (WIUT)

Istiqbol street 12, Tashkent

Contact

Nodir Djanibekov || Email: djanibekov@iamo.de

Tentative programme

Monday, 7 October

10:00 – 11:15	Opening and introduction to SAP
11:30 – 13:00	Introduction to Stata • Basic commands • Importing data • Data formatting, sorting, labelling, replacing • Histograms, box-plots • Summary statistics • t-test (mean difference)
14:00 – 17:00	*Group assignment 1:* Setting up the Stata environment

Tuesday, 8 October

10:00 – 11:15	*Determinants of adoption: Theoretical part*
11:30 – 13:00	OLS model • Model diagnostics • Interpretation of results
14:00 – 17:00	*Group assignment 2:* Running summary statistics, two-sample t test, OLS model and interpreting estimation results

Wednesday, 9 October

10:00 – 11:15	Probit model
11:30 – 13:00	Introduction to Probit model in Stata • Model diagnostics • Marginal effects, interpretation of results
14:00 – 17:00	*Group assignment 3*: Running probit model and interpreting estimation results

Thursday, 10 October

10:00 – 11:15	Endogenous Switching Regression model
11:30 – 13:00	Endogenous Switching Regression model in Stata • Test of instrumental variables • Inverse Mills Ratio • Model diagnostics
14:00 – 17:00	*Group assignment 4:* Running second stage model and interpreting estimation results

Friday, 11 October

10:00 – 11:15	Endogenous Switching Regression model: Average treatment effects
11:30 – 13:00	Interpretation of treatment effects
14:00 – 17:00	*Group assignment 5:* Running treatment effect model and interpreting estimation results
17:00	Conclusion