



# OXFORD UNIVERSITY ECONOMICS FUNDAMENTALS OF GRADUATE ECONOMICS AND FINANCE

22 - 26  
JUNE

ONLINE &  
IN-PERSON

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STUDY ECONOMICS AT OXFORD  
WHERE CENTURIES OF SCHOLARSHIP MEET  
CUTTING-EDGE RESEARCH. LEARN DIRECTLY FROM  
OXFORD FACULTY IN SMALL, TUTORIAL-STYLE  
CLASSES AND EXPERIENCE THE ACADEMIC AND  
CULTURAL LIFE OF ONE OF THE WORLD'S MOST  
HISTORIC UNIVERSITIES.



## WELCOME FROM ACADEMIC DIRECTOR, PROFESSOR BANU DEMIR

At one of the world's most respected departments of economics, you will refine the analytical tools that support successful graduate-level study. Fundamentals of Graduate Economics and Finance is an intensive one-week summer school taught by faculty from the University of Oxford's Department of Economics, designed to deepen your understanding of mathematical methods, core economic theory, and introductory econometrics.

The course is tailored for undergraduates preparing for postgraduate programmes and for early-stage graduate students who want to reinforce their foundations. Through interactive lectures, structured problem-solving sessions, and guided workshops, you will engage closely with the ideas and techniques that shape modern economic analysis. The emphasis throughout is on strengthening intuition, improving fluency, and developing the analytical habits that make advanced study feel coherent and rewarding.

You will also take part in our Faculty Research Inspiration Sessions, where Oxford economists discuss their current work and share practical insight into forming research questions, choosing appropriate methods, and navigating academic pathways. These conversations offer clarity and direction for anyone considering graduate applications or preparing materials such as a Statement of Purpose.

Studying in a small, motivated cohort, either in Oxford or online, you will work through challenging material in an environment that encourages curiosity, dialogue, and collaboration. Students often say the week helps them see the subject differently - not just as individual courses, but as a coherent set of tools they can apply with much greater confidence.

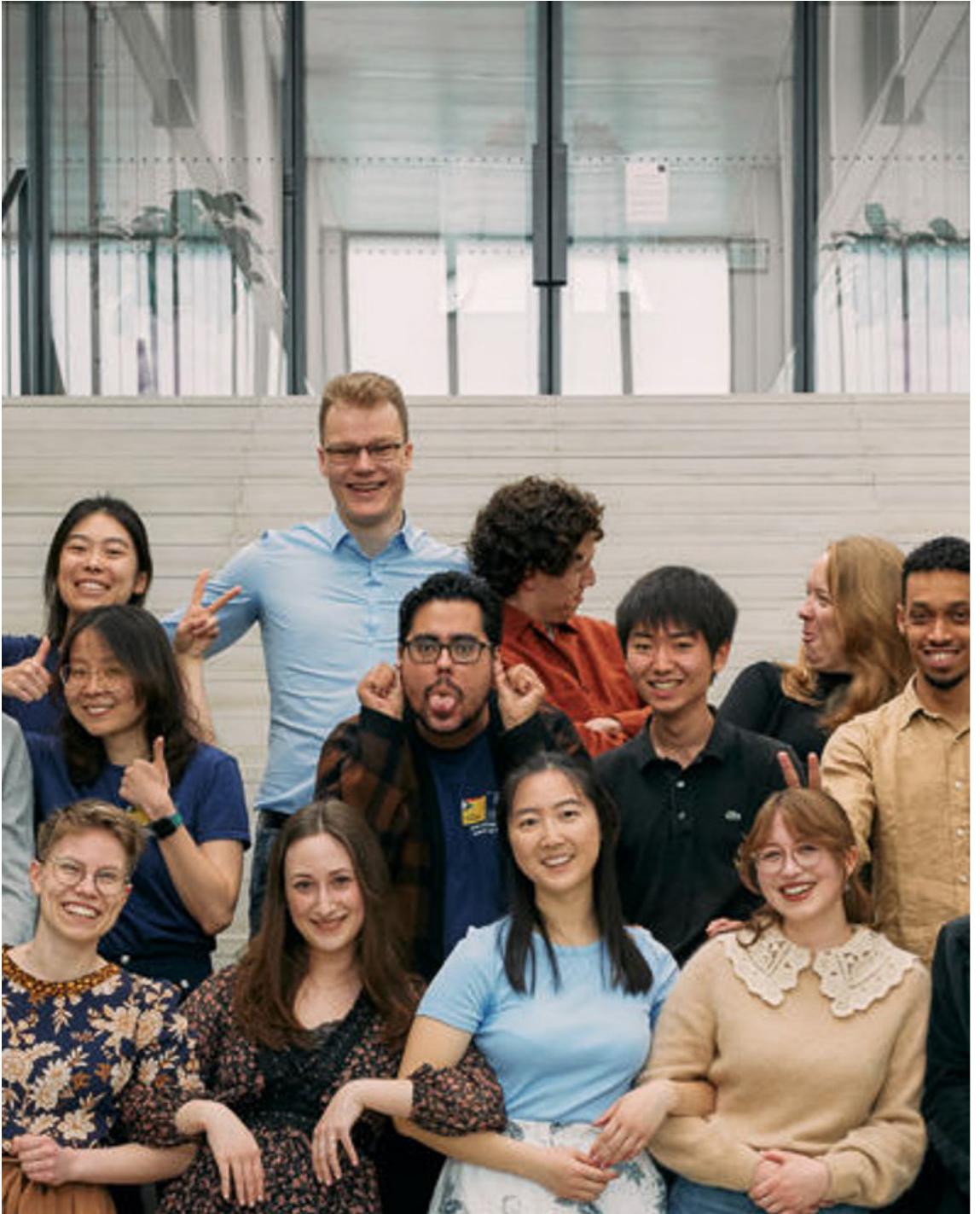
You will leave the programme with a stronger quantitative foundation, a deeper understanding of how core concepts connect, and renewed confidence in the next steps of your academic journey.

I look forward to welcoming you to Fundamentals of Graduate Economics and Finance.



Banu Demir  
Professor of Economics and Academic Director





## WHAT HAPPENS WHEN YOU STUDY ECONOMICS AT OXFORD?

**Some programmes teach you what to think. At Oxford, you learn how to think.**

Studying economics here means joining a tradition that has shaped how the world understands growth, inequality and decision making.

Fundamentals of Graduate Economics and Finance invites you to move beyond routine coursework and engage with the discipline as it is approached at graduate level. You will learn to tackle questions with sharper reasoning, draw connections across key areas of economics, and develop the habits of thought that support advanced study.

The programme also offers a glimpse of Oxford's distinctive academic culture. Drawing on aspects of the tutorial tradition, where ideas are explored through dialogue, careful questioning and close engagement with faculty, you will work in small groups that encourage discussion, clarity and deeper understanding.

## WHAT TO EXPECT:

### 1 A focused introduction to graduate level economics

Experience what it means to study economics the Oxford way. Engage in small group sessions led by expert faculty, where careful reasoning, discussion and analytical depth shape how you approach the subject.

### 2 Strengthen the skills that matter

Deepen your understanding of economic theory, applied mathematics and introductory econometrics through interactive lectures and structured problem solving. Each session is designed to help you build fluency and confidence for advanced study.

### 3 Learn from Oxford researchers

Take part in Faculty Research Inspiration Sessions, where Oxford economists share insights from their current work. These conversations offer clarity on how research questions are formed and provide valuable guidance for shaping your academic path.

### 4 A small, motivated cohort

Work closely with peers who share your ambition for graduate study. The atmosphere is collaborative and discussion led, creating space to test ideas, ask questions and build a deeper understanding of core concepts.



“THE COURSE PUSHED  
WHAT I THOUGHT I WAS  
CAPABLE OF IN THE  
BEST POSSIBLE WAY.”

— JEM, STUDENT, 2025  
PARTICIPANT.



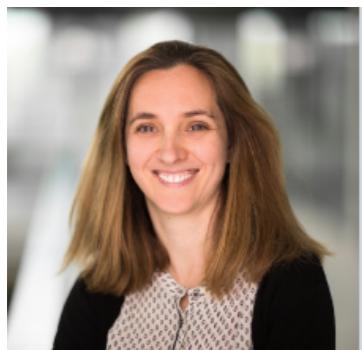
# TOPICS COVERED:

## INTRODUCTION TO MATHEMATICAL METHODS

**Objective:** This course will introduce students to elements of mathematical analysis and of probability theory with a special emphasis on methods that are important in economics.

### 1 Mathematical Analysis:

Study essential topics including logic, proofs, sets, relations, functions, sequences, limits, continuity, and differentiability. Emphasis is on understanding key results and their application to economic questions, with examples from decision theory and game theory.



Professor Inés Moreno de Barreda

Inés is Associate Professor of Economics at the University of Oxford and a Fellow of St Peter's College. She studies how people communicate and interpret information, and how this shapes decisions in economic and political settings. Her research on persuasion, correlation neglect and voter behaviour has been published in leading journals, offering important insights into how information influences choices. Inés brings this perspective into her teaching, making complex ideas accessible and engaging for students.



Professor James Duffy

James is Associate Professor of Economics at the University of Oxford and a Fellow of Corpus Christi College. He specialises in econometrics, with a focus on how economists use data to understand relationships and test theories. His research covers areas such as time series analysis, nonlinear models and identification, and has been published in leading journals. James brings a clear, practical approach to teaching, helping students see how econometric tools are applied to real economic questions.

2

### Probability Theory:

Learn probability fundamentals such as probability axioms, independence, conditional probability, Bayes' rule, distributions (discrete and continuous), expectations, moments, correlation, the law of large numbers, and the central limit theorem. Applications focus on decisions under risk and risk mitigation.

3

### Quantitative Problem Solving:

Apply mathematical concepts to real-world economic problems in hands-on sessions, building practical skills in economic modelling and quantitative analysis.

## INTRODUCTION TO ECONOMETRICS

**Objective:** Develop a thorough understanding of econometric techniques, focusing on regression analysis and instrumental variables - key methods for empirical economic research.

1

### Statistical Inference Introduction:

Introduction to hypothesis testing, confidence intervals, and uncertainty measurement, providing a foundation for interpreting economic data.

2

### Linear Regression:

Gain an understanding of how linear regression can uncover causal effects within observational data. Examples include the impact of university and degree choices on career earnings.

3

### Advanced Regression Techniques:

Build on regression skills by learning to handle nonlinear relationships and improve estimate accuracy. Applications demonstrate how to model complex economic interactions.

4

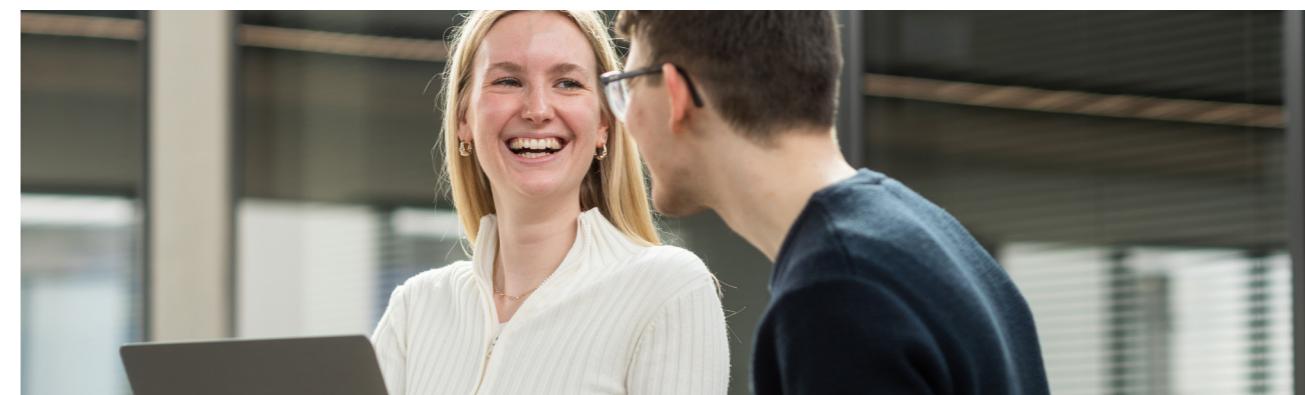
### Dealing with Endogeneity:

Understand the limitations of linear regression in estimating causal effects due to issues like unobserved variables and reverse causation. Explore strategies to address these challenges, including the use of randomised control trials.

5

### Introduction to Instrumental Variables:

Discover instrumental variables as a powerful tool for estimating causal effects when traditional regression methods encounter limitations.



## WHAT OUR PARTICIPANTS SAY:

"I REALLY ENJOYED THE COURSE. I'VE BUILT A LOT OF CONFIDENCE IN MATHEMATICS AND STATISTICS, AND FOR THE FIRST TIME I HAVE A CLEAR OVERVIEW OF HOW DIFFERENT TOPICS IN MATHS AND ECONOMETRICS CONNECT. I'M ESPECIALLY GRATEFUL FOR THE RESOURCES WE WERE GIVEN TO KEEP WORKING THROUGH, AND I'VE LOVED THE SENSE OF COMMUNITY ON THE COURSE." – JEM, STUDENT

"THE COURSE WAS ENGAGING AND REWARDING, NOT ONLY FOR THE AMOUNT OF CONTENT PRESENTED IN FIVE DAYS BUT ALSO FOR THE WAY OF THINKING IT ENCOURAGES. IT HAS GIVEN ME AN APPROACH TO PROBLEMS AND TOPICS THAT I KNOW I'LL CARRY WITH ME INTO FUTURE STUDY." – FRANCESCO, STUDENT

"EVERYTHING WAS VERY CLEAR AND EASY TO NAVIGATE, FROM THE CANVAS PLATFORM TO THE EVENT REGISTRATIONS. THE CONTENT WAS INTENSIVE IN THE BEST WAY, AND THE STRUCTURE MADE IT MUCH EASIER TO UNDERSTAND. IT HAS BEEN EXTREMELY ENRICHING AND HAS HELPED ME FEEL PREPARED FOR MY MASTERS." – ANISSA, STUDENT

"I REALLY ENJOYED THE CONTENT OF THE COURSE AND HOW CLEARLY IT WAS TAUGHT. THE PREPARATORY MATERIALS MADE IT EASY TO FOLLOW THE CLASSES, AND THE WEEK GAVE ME UNIQUE INSIGHTS INTO WHAT GRADUATE STUDY LOOKS LIKE. IT WAS AN ENLIGHTENING EXPERIENCE." – IRLANDA, STUDENT

## WELCOME TO OXFORD:

Spend a week studying economics in a place shaped by centuries of ideas. Oxford's colleges, libraries and quiet courtyards offer a setting where thinking comes naturally - not because it's grand, but because it's built for learning.



### Here, learning naturally moves beyond the classroom.

Walk between sessions through tree-lined quads, where you'll encounter students, researchers and faculty who each shape the university in their own way. Continue discussions over lunch by the river, or carry a debate from your afternoon lecture into an evening meal in a historic dining hall.

### Oxford is a city alive with curiosity.

World-class museums, libraries and galleries sit alongside cafés, bookshops and quiet corners perfect for study or conversation. Whether you're punting on the Cherwell, browsing exhibits, or simply taking in the atmosphere, the city offers inspiration at every turn.



Studying economics at Oxford means joining a community that thinks carefully about how ideas take shape. Over the week, you'll be part of that atmosphere, learning from experts and developing a way of thinking that stays with you long after the course ends.

# LIFE AT THE SUMMER SCHOOL:

The Fundamentals of Graduate Economics and Finance offers more than advanced teaching. It gives you space to engage with Oxford faculty, strengthen your research thinking, and be part of an international academic community.

Over the week, participants can take part in:

## 1 Faculty Research Inspiration Sessions:

Discover your research interests and build a compelling Statement of Purpose. Hear from Oxford faculty on specialised topics and cutting-edge research, designed to inspire your own academic journey.

## 2 Lectures by Leading Economists:

Hear from distinguished economists who share their expertise on cutting-edge research, real-world economic challenges, and diverse career trajectories in economics.

## 3 Welcome Reception & College Formal Dinner (In-Person):

Enjoy a formal dinner at one of Oxford's historic colleges and a welcome reception, perfect for connecting with peers and faculty in a memorable setting.

## 4 Social Activities and Tours (In-Person):

Enhance your Oxford experience with optional college tours and social events that celebrate Oxford's rich academic heritage and foster a sense of community among participants.



# FEES & WHAT'S INCLUDED:

- **In-person: £2,800**
- **Online: £1,960**

Your fee includes enrolment, Faculty Research Inspiration Sessions and a certificate of completion.

In person participants also enjoy a tour of Oxford, punting, and a welcome reception and formal dinner at an Oxford college, along with daily lunch and refreshments.

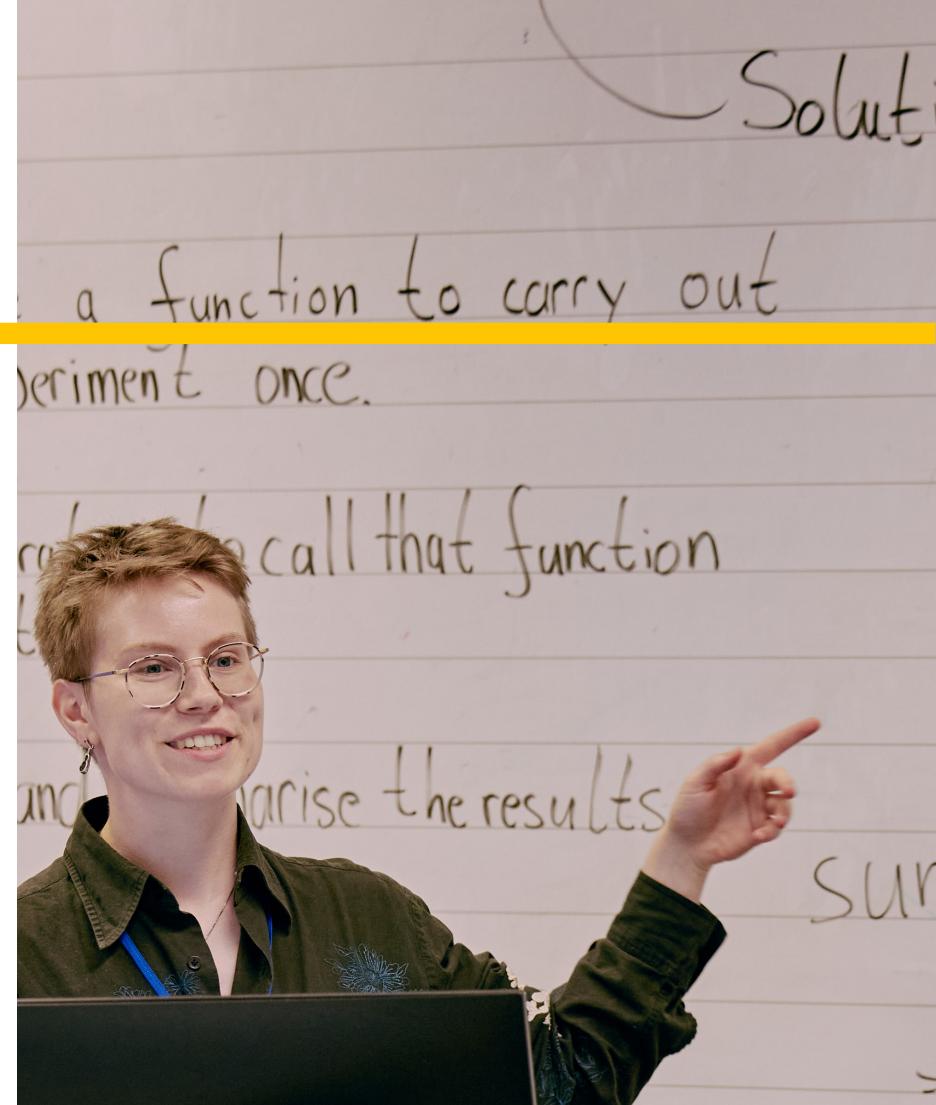
## HOW TO APPLY

1. **Apply online:** [ouess.web.ox.ac.uk/apply](http://ouess.web.ox.ac.uk/apply)
2. **Secure your place:** Submit the deposit — spaces are limited!

Questions? Email [summerschools@economics.ox.ac.uk](mailto:summerschools@economics.ox.ac.uk)



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