

Lima SCHOOL
OF ECONOMICS



a place of mind
THE UNIVERSITY OF BRITISH COLUMBIA

Vancouver School of Economics

LIMA Summer School in Economics Series

2021 Math, Micro & Metrics
Online Camp

February 1st to February 25th, 2021



Since 2016, Lima School of Economics (LimaSE), the research institute of the Economics Department at Universidad de Piura (UDEP), and Vancouver School of Economics (VSE) organize the Lima Summer School in Economics, which has been attended by approximately 200 young economists from Peru, Latin America, North America and Europe.

In September 2021, the Economics Department at UDEP will start its own [Master Program in Economics](#) in collaboration with the Vancouver School of Economics of the University of British Columbia. As a way to help Peruvian and other Latin-American students who plan to start postgraduate studies in 2021, in particular those interested in our own master program, in February 2021 we will offer an online camp in econometrics, mathematics and microeconomics. Participants in this summer camp will study essential topics that are usually covered in the first weeks of the curricula of a master level program in economics at any top-ranked academic institution.

By the end of online camp, there will be an optional exam for each course, so students can assess their level of progress and preparation in the topics covered. If the student takes the exam, she/he can voluntarily require the grade obtained to appear in her/his program completion certificate.



Vadim Marmer
Graduate Program Director, Vancouver School of Economics

The Vancouver School of Economics (VSE) is pleased to once again partner with the Lima School of Economics, this time for the upcoming 2021 Math, Micro & Metrics Online Camp. During this difficult time of a global pandemic, economic and political instabilities, education is more important than ever, as it is the key for combating these problems. We have the utmost respect for students who have decided to continue with their education despite the uncertainty and additional difficulties brought by today's situation. The VSE always values our continuing collaboration with the Lima School, but we are especially proud of having the opportunity to be involved in teaching some of the strongest students from South America during this time.



Marcos Agurto
Director, Master in Economics Program, Universidad de Piura.

We are very happy to announce that next September 2021 we will start our Master in Economics Program at Universidad de Piura. I am also glad to announce that our Master Program students will be able to study their second term at the Vancouver School of Economics, one of the top 20 economics departments in North America.

We are very proud of our collaboration with VSE. Since 2016, Lima School of Economics, our research institute, and VSE organize the Lima Summer School of Economics. In the last five years, close to 200 young economist from top universities in Peru, Latin-America and all around the world, have experienced the unique and inspiring academic environment offered by our Summer School.

Given the current context and as a way to help Latin-American students prepare for their future graduate studies, including those who will join our master program, we have decided to offer a summer camp in math, micro and metrics. This program continues with the tradition of excellence that characterizes our Lima Summer School of and will be offered online on February 2021. I am sure that you will find this experience a rewarding one!



Course 1 > February 8th to 18th , 2021

Topics in Econometrics

In this series of lectures, we will cover the foundations of modern graduate-level econometrics. We will start with the background from matrix algebra and probability theory, including asymptotics. We will then provide a comprehensive treatment of the least-squares and instrumental variables estimation methods, including the generalized method of moments. If time permits, we will discuss maximum likelihood estimation of the binary probit and logit models.



Dr. Vadim Marmer

Dr. Marmer is the Director of the Graduate Program at Vancouver School of Economics.

He received his undergraduate and Master's degrees in Economics from the Hebrew University of Jerusalem, Israel. He worked at the Bank of Israel and taught as an instructor at the Hebrew University before continuing to PhD studies at Yale University in New Haven, USA. He received his PhD in Economics from Yale in 2005.

His main area of research is econometrics, where he has been working on the issues of misspecification, identification, statistical inference for auctions, and nonlinear and non-stationary time series. He has published several scholarly papers including seven papers in Journal of Econometrics, which is a leading scholarly journal in econometrics.

Course 2 > February 14th to 26th , 2021

Topics in Microeconomics

This course is an introduction to advanced microeconomic theory, and it is intended to lay the foundation for graduate work in economics. We will begin with a rigorous review of the fundamentals of the theory of the consumer, the neoclassical producer theory and the theory of competitive markets. We will then discuss how strategic interaction affects transactions within and between firms through the examination of concepts of game theory and oligopoly. Course topics include, but are not restricted to, consumer theory, producer theory, choice under uncertainty, competitive markets, general equilibrium and welfare, monopoly and market power, game theory, oligopoly.



Dr. Cristián Troncoso-Valverde

Dr. Troncoso-Valverde is Professor in Economics at Universidad Nacional Andrés Bello in Chile and an Associate Member of Lima School of Economics since 2015.

He received his Ph.D in Economics from the University of British Columbia. He holds a BSc in Business Administration (First Class Honors) from Universidad de Talca, Chile, and an MA in Economics from Concordia University, Canada.

His research focuses on topics related to Mechanism Design, Informational Economics and Industrial Organization, and has been published in leading journals such as Economic Theory, The Journal of Economic Theory and the B.E. Journal of Economic Analysis & Policy.

Course 3 > February 1st to 11th, 2021

Mathematics for Economists

The study of modern economics requires a set of analytical tools not commonly taught in undergraduate programs. This can make the transition of economic majors to a graduate program sometimes challenging. In this course, the primary goal is to provide the mathematical tools needed to successfully navigate through modern economics. We will cover a variety of topics, such as linear algebra, real analysis, calculus, and optimization, their basics and how to use them in economic applications.



Dr. Jorge Francisco Catepillan

Dr. Catepillán is an Assistant Professor of Economics at Universidad de Piura and a member of Lima School of Economics.

In 2018, Dr. Catepillán obtained his PhD in Economics from Northwestern University, in Evanston, Illinois. He received his undergraduate degree in Industrial Engineering and his master degree in Economics (Summa cum laude) from Universidad de Chile.

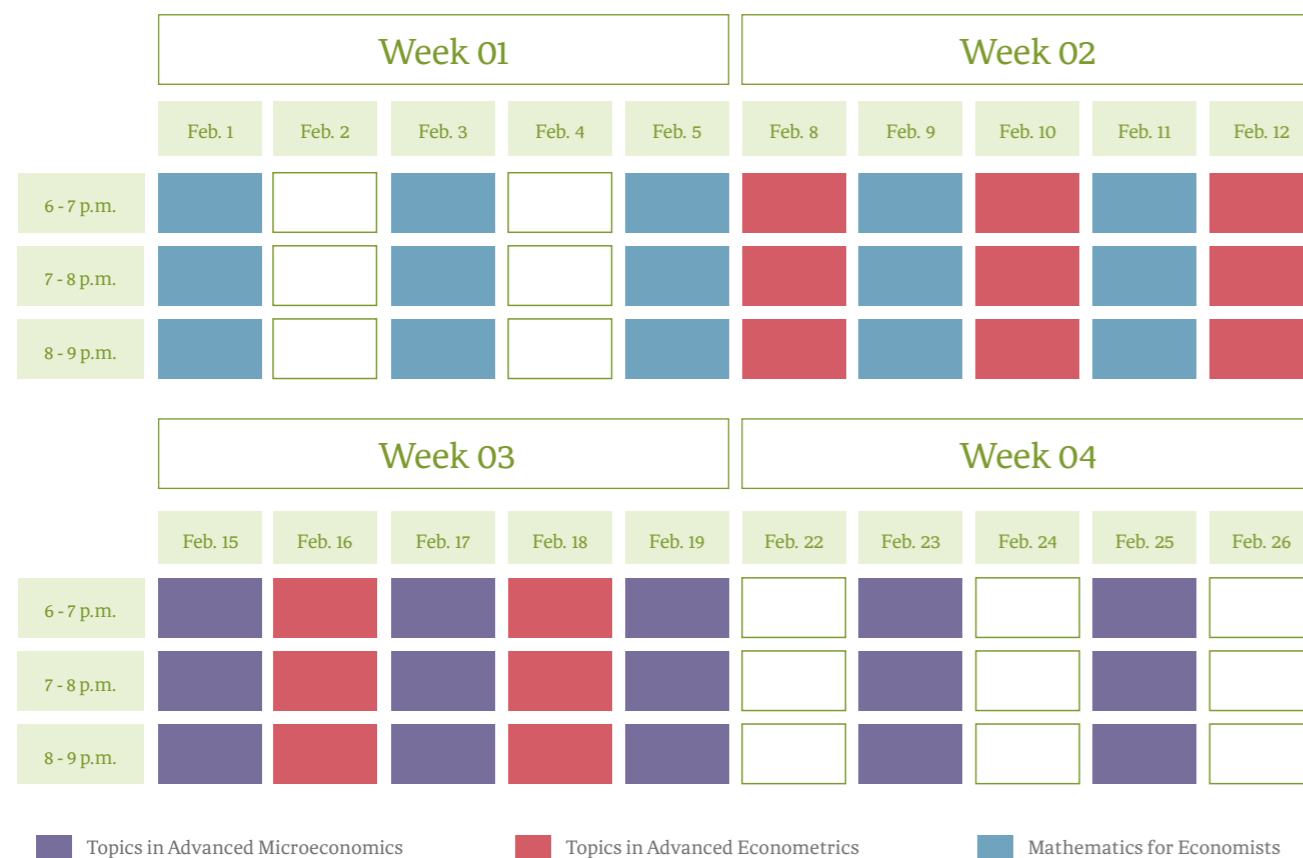
Dr. Catepillán has taught Real Analysis for Economists at the PhD level at Pontificia Universidad Católica de Chile. He has also been a consultant for the World Bank and the Chilean Ministry of Education.



Online Camp Schedule

The 2021 Camp in Math, Micro and Metrics will take place online via Zoom from February 1st to February 25th, 2021.

Courses will be held on afternoons according to the following schedule:



Exams:
Mathematics for Economists: Saturday Feb 20th, 2021. 8.00 a.m.
Advanced Topics in Econometrics: Saturday Feb 27th, 2022. 8.00 a.m.
Advanced Topics in Microeconomics: Saturday March 6th, 2022. 8.00 a.m.

Investment

Program fees as a function of the total number of courses in which the participant registers:

Number of courses	Total Number of Hours	Investment per course
Only one course	15 hours	US\$ 200
Any two courses	30 hours	US\$ 300
Full Program (Three courses)	45 hours	US\$ 400

Discounts:
A 10% discount over the amounts indicated above will be applied to those individuals who register by December 31st, 2020.
UDEP alumni and participants of previous LimaSE Summer School editions are also eligible for an additional 5% discount.
Corporative discounts also available for those institutions interested in registering at least 5 participants. For more information about our institutional discounts, please contact us at summercamp@udep.edu.pe

Payment instructions will be provided to admitted candidates by our Admissions Office.

At the conclusion of the Online Camp, participants will receive a certificate indicating the courses and the number of total hours attended. If a student takes the final course exam, she can also require her exam grade to be included in the certificate.

Registration

In order to apply to the 2021 Online Camp, prospective students should fill and submit the online registration form available at: www.limase.pe/summer-camp-2021/web.php#registration. Candidates will be informed of their acceptance decision on a rolling basis.

Application for the 2021 Online Camp in Economics begins on November 30th, 2020.

The deadline to apply is January 31st, 2021. However, please take into consideration that courses capacity is limited, and some courses may close before this deadline. Payment instructions will be provided to those admitted into the program.

Online Camp Scholarships

LimaSE will award a limited number of Full and Partial Scholarships to a selected group of candidates for the 2021 Online Camp. For more information about the requirements and deadlines to apply for the LimaSE Summer Scholarship visit: <http://www.limase.pe/summer-camp-2021/web.php#scholarship>

Additional information email us at summercamp@udep.edu.pe or visit <http://www.limase.pe/summer-camp-2021/>



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