

MSc Horacio Castellanos Muñoa

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EDUCATION

B.A in Economics <i>School of Economics, UNAM</i> <ul style="list-style-type: none">GPA: 8.53/10	2007-2012 CDMX
B.A in Mathematics <i>School of Sciences, UNAM</i> <ul style="list-style-type: none">GPA: 8.21/10	2014-2020 CDMX
M.S in Mathematical Sciences <i>Institute of Mathematics, UNAM</i> <ul style="list-style-type: none">Doctoral Qualifying Examination in Modern Algebra (Summer 2021)GPA: 9.44/10	2020-2022 CDMX
M.S in Economics <i>University of Montevideo, Uruguay</i>	2022-Ongoing Hybrid
PhD in Mathematics <i>Institute of Mathematics, UNAM</i> <ul style="list-style-type: none">Doctoral Qualifying Examination in Algebraic Geometry (Spring 2023)Doctoral Qualifying Examination in Algebraic Topology (Summer 2023)	2023-Ongoing CDMX

WORK EXPERIENCE

Professional Practice (Servicio Social) <i>Mexican National Banking and Securities Commission</i> <ul style="list-style-type: none">I did my professional practice in Economics in the "Dirección General de Prevención de Operaciones con Recursos de Procedencia Ilícita". My main task was to process requests from the Mexican government, mainly from the judiciary system, regarding access to financial data from people involved in any legal procedure. It involved file processing, redacting responses and managing highly confidential information.	January 2011 – July 2011 CDMX
Teaching Assistant <i>School of Economics (Main Professor: Dr. Rafael Núñez)</i> <ul style="list-style-type: none">Statistics (Spring 2016)Introductory Econometrics (Fall 2016)Statistics (Spring 2017)Introductory Econometrics (Fall 2017)Statistics (Spring 2018)Introductory Econometrics (Fall 2018)	January 2016 – January 2019 UNAM, CDMX

RESEARCH

About an open problem in surfaces $K^2 = 6$ and $p_g = 4$ Master thesis in Mathematics <ul style="list-style-type: none">Master thesis in mathematics, particularly in algebraic geometry, under the supervision of Dr. Juan Salvador Garza Ledesma. Thesis succesfully defended on February 10, 2023.	February 10, 2023
Bloch-Beilinson-Murre Conjecture and Mixed Motives PhD thesis in Mathematics <ul style="list-style-type: none">I am currently working on the still conjectural filtration of the Chow groups with rational coefficients using Voevodsky's triangulated category of motives approach. My main advisor is Dr. Pablo Pelaez.	Ongoing

GRANTS AND AWARDS

Mexican Council of Science and Technology's scholarship for M. Sc. studies: Grant given by the mexican goverment as financial support for master students in public institutions.
Mexican Council of Science and Technology's scholarship for PhD studies: Grant given by the mexican goverment as financial support for PhD students in public institutions.

TECHNICAL SKILLS

Languages: English (proficient), French (basic), Japanese (beginner)

International certifications: TOEFL iBT (96/120)

Programming languages: LaTeX (intermediate), R (intermediate), Python (beginner), Stata (beginner)

REFERENCES

Dr. Rafael Núñez Zúñiga: School of Economics, UNAM. rafaelnz@economia.unam.mx

Dr. Mauricio Olivares González: Department of Statistics and Econometrics, Ludwig-Maximilians-Universität (LMU) Munich. m.olivares@lmu.de

Dr. José Pablo Pelaez Menaldo: Institute of Mathematics, UNAM. pablo.pelaez@gmail.com