

Marcelo Gallardo

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Department of Mathematics
[Pontificia Universidad Católica del Perú](#)
Lima, Pe.
marcelo.gallardo@pucp.edu.pe

Education

B.s. in Mathematics 2020-2025 (E) and M.A. (c) in Economics and Applied Mathematics (2023-2025). [Pontificia Universidad Católica del Perú](#).

Cycle Propédeutique, Physique 2019-2020. [École Polytechnique Fédérale de Lausanne](#).

Summer and winter school

[QLab](#), Lima, Pe. Jan-Feb. 2022, 2023, 2024.

[QLab](#), Lima, Pe. Aug. 2024.

[Harvard University](#), Ethics of Artificial Intelligence in Business, MA. Aug. 2024.

Academic Statement

Relevant coursework at PUCP [here](#).

Experience

Research Assistant (2021-)

[UNSW](#) Sydney, Au. Working with PhD [Juan Carlos Carbajal](#). 2024-.

[GRADE](#), Lima, Pe. Working with PhD [Juan León Jara-Almonte](#). 2022-.

[PUCP](#), Lima, Pe. Working with PhD [Jorge Richard Chávez Fuentes](#). 2021-.

Teaching Assistant (2022-)

[Mathematics for Economics and Finance 3](#). With PhD Jorge Richard Chávez Fuentes.

[Mathematics for Economists](#). With PhD Jorge Richard Chávez Fuentes.

[Optimization I](#). With PhD Jorge Richard Chávez Fuentes.

[Functional Analysis](#). With PhD Percy Braulio Fernández.

[Microeconomics 2](#). With PhD Pavel Coronado Castellanos.

[Financial Microeconomics](#). With PhD (a.b.d.) José David Gallardo Kú.

Working papers and publications

[Rethinking Optimal Transport in Discrete Settings](#). With PhD Jorge Richard Chávez Fuentes and Manuel Loaiza.

[Harnessing Twitter and GPT for a Novel Political Uncertainty Index for Peru: Implications for USD/PEN Exchange Rate Fluctuations](#). With Manuel Loaiza and PhD [Gabriel Rodriguez Briones](#). Working paper.

[Innovation and overeducation in Peruvian universities](#). With PhD Juan León Jara-Almonte. Working paper.

Books

[Linear Algebra and Optimization for Economists](#). With PhD Jorge Richard Chávez Fuentes. Pre-published book.

[Optimal Control and Dynamical Systems for Economic Analysis in Continuous Time](#). With PhD Jorge Richard Chávez Fuentes. Working book.

[Fundamentals of Econometric Theory](#). With PhD Juan León Jara-Almonte. Lecture notes.

Awards

Mention [Très Bien](#) au BAC (19.91/20). [Lycée Franco Péruvien](#), Lima Pe, 2018.

[Admission](#) to l'X Bachelor Program. Paris, Fr, 2019.

[Winner of the contest Initiation to Scientific Research](#). PUCP, Lima, Pe, 2020.

[Winner of the contest Initiation to Scientific Research](#). PUCP, Lima, Pe, 2021.

Ranked first in my class in the Mathematics major. PUCP, Lima, Pe.

[Excellence Scholarship](#) PUCP, Lima, Pe, 2024.

Skills

Programming: Python, \LaTeX , STATA.

Languages: Spanish (Native), French (Advanced), English (Proficient).

Research interests

Convex optimization. Matching theory. Microeconomic Theory. Optimal Control Theory. Optimal Transport Applied to Economics.

References

[Jorge Richard Chávez](#). Professor of the Mathematics Department at Pontificia Universidad Católica del Perú.

[Juan León Jara](#). Associate Professor of the Economics Department at Pontificia Universidad Católica del Perú and Research Associate at GRADE.

[Juan Carlos Carbajal](#). Associate Professor and Post-Graduate Coordinator of the School of Economics at the UNSW Sydney.