Marcelo Gallardo

Department of Mathematics
Pontificia Universidad Católica del Perú, Lima, Peru
marcelo.gallardo@pucp.edu.pe
marcelogallardob.github.io

Education

Pontificia Universidad Católica del Perú (PUCP), Lima, Peru

B.Sc. and Licentiate in Mathematics (2020–2025), graduated with honors. Graduate-level coursework in Applied Mathematics and Economics (2023–2025). GPA: 18.24/20.

Semester completed abroad at EPFL (Sep. 2019).

Relevant coursework here.

Lycée Franco-Péruvien, Lima, Peru

Baccalauréat Scientifique (2017–2018), 19.91/20, see Relevé de Notes BAC S.

Summer and winter school

Harvard University, Ethics of Artificial Intelligence in Business, MA. Aug. 2024.

QLab Summer School (PUCP) , Lima, Pe. Jan-Mar. 2022, 2023, 2024.

QLab Winter School (PUCP), Lima, Pe. Aug. 2024.

Experience

Research Assistant (2021-)

With Professor Juan Carlos Carbajal. 2024-. UNSW Sydney, Au.

With Professor Jorge Richard Chávez. 2021-2025. PUCP, Lima, Pe.

With Professor Juan León Jara. 2022-2023. GRADE, Lima, Pe.

Teaching Assistant (2022-)

Mathematics for Economics and Finance 3. With Professor Jorge Richard Chávez.

Mathematics for Economists 4. With Professor Jorge Richard Chávez.

Operation Research. With Professor Jorge Richard Chávez.

Guest professor: Federico Echenique (UC Berkeley).

Functional Analysis. With Professor Percy Braulio Fernández.

Microeconomics 2. With Professor Pavel Coronado Castellanos.

Financial Microeconomics. With Professor José David Gallardo Kú.

Applied Differential Equations. With Professor Marcelo Flamarion.

Working papers

Field Experiments on Seasonal Products and Markdown Pricing (2026). With Carlos Noton and Marcelo Olivares.

Completed manuscripts

Congestion and Penalization in Optimal Transport (2025). With Jorge Chávez and Manuel Loaiza. *R&R at DEF.* arXiv:2410.07363

Heterogeneous Quadratic Regularization in Optimal Transport (2025). With Jorge Chávez and Manuel Loaiza. *Submitted.*

Irregular Wave Dynamics driven by a Random Force within the Burgers Equation (2024). With Marcelo Flamarion. *Submitted.*

Books

Dynamical Systems and Optimal Control for Economists. With Jorge Richard Chávez Fuentes. In the editorial review process at Springer.

Linear Algebra and Optimization for Economists (2025). With Jorge Richard Chávez Fuentes. Foreword from Professor César Martinelli. Published by the Fondo Editorial PUCP.

Foundations of Econometrics (2025). With Juan León Jara-Almonte. Teaching material published by the Department of Economics, PUCP.

Awards and distinctions

Ranked 1st in the Mathematics major and within the top 1.15% of my cohort of the Faculty of Sciences and Engineering, PUCP, Lima, Pe, 2025.

Excellence Scholarship. PUCP, Lima, Pe, 2024.

Winner of the contest "Initiation to Scientific Research." PUCP, Lima, Pe, 2020 and 2021.

Admission to the Bachelor's Program at École Polytechnique (l'X) after the entrance examination. Paris, Fr, 2019.

Mention Très Bien at the French Baccalauréat (BAC S). Lycée Franco-Péruvien, Lima, Pe, 2018.

Skills

Programming: LaTeX, Python.

Languages: Spanish (native), French (advanced), English (advanced, TOEFL iBT 112/120).

Research interests

Mechanism design. Optimal Transport-based Matching Theory. Political Economics.

Academic presentations

XXXVIII Colloquium of the Peruvian Mathematical Society. Aug. 2025.

References

César Martinelli. Professor of Economics at George Mason University.

Juan Carlos Carbajal. Associate Professor at the UNSW Sydney.

Carlos Noton. Assistant Professor at the School of Management of the Pontificia Universidad Católica de Chile.

Jorge Chávez. Professor of the Mathematics Department at Pontificia Universidad Católica del Perú.