

# Marcelo Gallardo

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Department of Mathematics  
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## Education

B.s. and Lic. in Mathematics 2020-2025 (E). [Pontificia Universidad Católica del Perú](#).

Summer School 2022, 2023, 2024. [QLab](#).

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

## 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 Fernández](#).

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

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

## Working papers, publications and lecture notes

[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 H. Rodriguez. Working paper.

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

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

[About Brouwer fixed point theorem and its applications in general equilibrium](#). With Carlos Cosentino and Eduardo Llamoca. Lecture notes.

## Books

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

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

## Awards

Mention d'excellence au BAC (19.91/20). [Colegio Franco Peruano](#), 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.

Top 1% [Faculty of Sciences and Engineering](#). PUCP, Lima, Pe.

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

## Skills

Programming: Python, L<sup>A</sup>T<sub>E</sub>X, STATA.

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

## 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.

[Alfredo Bernardo Poirier](#). Professor of the Mathematics Department at Pontificia Universidad Católica del Perú.

[Johel Victorino Beltrán](#). Professor of the Mathematics Department at Pontificia Universidad Católica del Perú and Visiting Professor at Fundação Getulio Vargas.

[Pavel Coronado](#). Associate Professor of the Economics Department at Pontificia Universidad Católica del Perú and Q-LAB ex-director.

[Percy Braulio Fernandez](#). Professor and Graduate School Director of the Mathematics Department at Pontificia Universidad Católica del Perú.