Marcelo Gallardo

Mathematics · PUCP
San Isidro, Lima, Peru

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Education

Pontificia Universidad Católica del Perú *Lima, Pe*
B.s. Mathematics *2020-E (2025)*

Q-LAB *Lima, Pe*
Summer School *January-February 2022, 2023*
and 2024

École Polytechnique Fédérale de Lausanne *Lausanne, Sw*
Cycle Propédeutique Physics *2019 - 2020*

Academic Statement

Undergraduate Academic Statement *Lima, Pe*
2020-E (2025)

Experience

Research Assistant *Lima, Pe*
Grupo de Análisis para el Desarrollo *2022 - present*
- Working with PhD Juan León Jara.

Pontificia Universidad Católica del Perú *Lima, Pe*
2022 - present
- Working with PhD Jorge Richard Chávez.

UNSW Sydney *Sydney, Au*
2024 - present
- Working with PhD Juan Carlos Carbajal.

Working papers, papers and others

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.

Innovation in Peruvian universities with PhD Juan L. Jara.

Brouwer fixed point theorem and applications in general equilibrium with Carlos Cosentino and Eduardo Llamoca.

Rethinking Optimal Transport in Discrete Settings: The Peruvian Case with PhD Jorge R. Chávez.

Fundamentals of Econometrics (Lecture Notes): with PhD Juan L. Jara.

Books

Linear Algebra and Optimization for Economists (pre-published) with PhD Jorge R. Chávez.

Dynamical Systems and Optimal Control Theory in Continuous Time for Economists (working) with PhD Jorge R. Chávez.

Awards, & achievements

2018	**Mention d'excellence au BAC, top mark 19.91/20**, Colegio Franco Peruano, Lima PE	
2019	**Admission to l'X Bachelor Program**, Paris, France	
2020	**Contest initiation to scientific research**, PUCP Lima, PE	*900 s/.*
2021	**Contest initiation to scientific research**, PUCP Lima, PE	*900 s/.*
2022	**Ranked first in Economic courses**, PUCP Lima, PE	
2022-	**Top 1% Faculty of Sciences and Engineering** , PUCP Lima, PE	
2022-	**Ranked first in my class in the Mathematics major**, PUCP Lima, PE	

Skills

Programming: Python, LaTeX, STATA

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

Research interests

Convex optimization. Matching theory. Microeconomic Theory. Economic growth theory. Optimal control theory. Optimal Transport.

References

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

2. **Juan León Jara.** Associate Professor of the Economics Department at Pontificia Universidad Católica del Perú and Research Associate at GRADE.

3. **Juan Carlos Carbajal.** Associate Professor and Post-Graduate Coordinator of the School of Economics at the UNSW Sydney.

4. **Alfredo Bernardo Poirier.** Professor of the Mathematics Department at Pontificia Universidad Católica del Perú.

5. **Johel Victorino Beltrán.** Professor of the Mathematics Department at Pontificia Universidad Católica del Perú and Visiting Professor at Fundação Getulio Vargas.

6. **Pavel Coronado.** Associate Professor of the Economics Department at Pontificia Universidad Católica del Perú and Q-LAB ex-director.

7. **Percy Braulio Fernandez.** Professor and Graduate School Director of the Mathematics Department at Pontificia Universidad Católica del Perú.