

# Marcelo Gallardo

MATHEMATICS · PUCP  
San Isidro, Lima, Peru

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## Education

### Pontificia Universidad Católica del Perú

B.S. MATHEMATICS

Lima, Pe  
2020-E (2025)

### Q-LAB

SUMMER SCHOOL

Lima, Pe  
January-February 2022, 2023  
and 2024

### École Polytechnique Fédérale de Lausanne

CYCLE PROPÉDEUTIQUE PHYSICS

Lausanne, Sw  
2019 - 2020

## Academic Statement

### Undergraduate Academic Statement

Lima, Pe  
2020-E (2025)

## Experience

### Teaching Assistant

#### PONTIFICIA UNIVERSIDAD CATÓLICA DEL PERÚ

Lima, Pe  
2022-2024

- **Mathematics for economists 3.** Undergraduate. With Professor PhD Jorge R. Chávez.
- **Mathematics for economists 4.** Undergraduate. With Professor PhD Jorge R. Chávez.
- **Convex Optimization.** Undergraduate. With Professor PhD Jorge R. Chávez.
- **Functional Analysis.** Undergraduate. With Professor PhD Percy Fernández.
- **Microeconomics 2.** Undergraduate. With PhD Pavel Coronado.

### Research Assistant

#### GRUPO DE ANÁLISIS PARA EL DESARROLLO

Lima, Pe  
2022 - present

- Working with PhD Juan L. Jara Almonte.

#### PONTIFICIA UNIVERSIDAD CATÓLICA DEL PERÚ

Lima, Pe  
2022 - present

- Working with PhD Jorge R. 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 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.

**Matching, Optimal Transport and School Choice** with PhD Jorge R. Chávez.

**Lecture notes in Optimal Transport: Entropic Regularization and Applications to Economics and Finance** with Carlos Cosentino and mentored by PhD Johel Beltrán.

**Lecture notes in Econometrics:** with PhD Juan L. Jara.

## Books

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**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

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12/2018 **Mention d'excellence au BAC, top mark 19.91/20**, Colegio Franco Peruano, Lima PE

05/2019 **Admission to l'X Bachelor Program**, Paris, France

12/2020 **Contest initiation to scientific research**, PUCP Lima, PE

900 s/.

12/2021 **Contest initiation to scientific research**, PUCP Lima, PE

900 s/.

2022-  
2023 **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

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**Programming:** Python,  $\text{\LaTeX}$ , STATA

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

## Research interests

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

## References

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1. **Jorge R. Chávez Fuentes.** Professor of the Mathematics Department at Pontificia Universidad Católica del Perú.
2. **Juan L. Jara Almonte.** 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 (PhD program) School of Economics, UNSW Sydney
4. **Alfredo B. Poirier Schmidt.** Professor of the Mathematics Department at Pontificia Universidad Católica del Perú.
5. **Johel Beltrán Ramírez.** 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 director.
7. **Percy Fernandez.** Professor and Graduate School Director of the Mathematics Department at Pontificia Universidad Católica del Perú.