JHANELA LUZ CARHUAZ FUSTER

Lima, Perú • jhanelacarhuaz@gmail.com
linkedin.com/in/jhanela-luz-carhuaz-fuster • github.com/Jhane080 • jhane080.github.io

PROFILE

Economics candidate at PUCP and research assistant specialised in applied and quantitative economics: panel-data econometrics, causal inference, machine learning, survey design and field data collection, and AI/agentic research workflows. Completed a one-year pre-professional research internship at Q-LAB PUCP, where she taught eleven courses in econometrics, programming and generative AI as Teaching Fellow, Teaching Assistant and Instructor.

EDUCATION

Pontificia Universidad Católica del Perú (PUCP) – B.A. in Economics **Aug 2020 – Jul 2026**

- GPA 3.3/4.0. Coursework: Intermediate Econometrics, Statistics, Topics in Mathematical and Computational Economics, R & Python Lab, Research Seminar, Stata for Databases.

Diploma in Data Science for Social Sciences and Public Management – Q-LAB PUCP **Aug 2026 – May 2027**

- **Half scholarship**. 240 teaching hours across five modules: mathematics and statistics for data science, R and Python foundations, intermediate Python, introduction to machine learning, advanced applied econometrics, and big data and analytics for Peruvian public management.

OMLATAM Fellowship 2025 (One Million Leaders LATAM) – Social Leadership & Sustainable Innovation **Jan – Jul 2025**

- Full scholarship. Eight-month intensive training in ethical leadership, wellbeing, entrepreneurship, innovation and environmental sustainability; completed successfully.

Colegio Mayor Secundario Presidente del Perú – International Baccalaureate (IB) Diploma **2018 – 2019**

- GPA 4.0/4.0. Top fifth of the graduating class. Diploma awarded 6 February 2020.

HONORS & AWARDS

- **Top 1 (highest-ranking student):** Research Seminar (Prof. Jhonatan Clausen, Ph.D. International Development, University of Bath); R & Python Lab; Stata for Databases (2025).
- **Top 2:** Intermediate Econometrics (Prof. José María Rentería, Ph.D. Economics, Université Paris 1 Panthéon-Sorbonne).
- **Top 3:** Statistics; Topics in Mathematical and Computational Economics (Prof. Alexander Quispe, M.Sc. Quantitative Economics, LMU Munich).
- **Winner, PUCP RSU Social Fund 2025** (student category) with the initiative “Papel con Propósito: Recicla, Dona y Sana”.
- **Half scholarship:** Diploma in Data Science 2026–2027, Q-LAB PUCP.
- **Full scholarships:** Winter School 2025 and 2026 (Q-LAB PUCP) and OMLATAM Fellowship 2025.
- **3rd place** (team) and finalist, 2nd Workshop on Design and Formulation of Projects with a Sustainability Focus, PUCP SEED Center (2024).

TEACHING & ACADEMIC EXPERIENCE

Research Intern (Practicante de Investigación) – Q-LAB, Faculty of Social Sciences, PUCP **Aug 2025 – Aug 2026**

- One-year pre-professional internship, 30 hours per week, in database management and analysis, web programming, and the design and delivery of Q-LAB's specialised academic programmes.
- **Teaching Fellow (Jefa de Práctica)**
  - Advanced Applied Econometrics – Diploma in Data Science 2025 (Nov 2025 – Apr 2026)
  - Advanced Applied Econometrics – Summer School 2026 (Feb 2026)
- **Teaching Assistant**
  - Intermediate R for Social Sciences and Public Management – Diploma in Data Science 2025 (2025 – Apr 2026)
  - Geospatial Data Analysis with QGIS – Diploma in Data Science 2025 (Feb – Apr 2026)
  - Foundations of Python Programming for Economics – Summer School 2026 (Jan 2026)
  - Foundations of Python Programming for Social Sciences – Summer School 2026 (Jan 2026)
  - Prompt Engineering with GPT-4 – Summer School 2026 (Feb – Mar 2026)
  - Large Language Models (LLMs) – Specialisation Programme in Generative AI Applied to Social Sciences and Public Management (Mar – Aug 2026)
  - Assessing Ideological Stances and Biases in Generative LLMs – Winter School in Advanced Methods for Social Sciences 2026 (Aug 2026)
- **Instructor**
  - Python Applied to Economics and Finance – Introductory Workshops 2026-1 (Mar 2026)
  - Web Scraping for Social Research – Introductory Workshops 2026-2 (Aug 2026)

Academic Coordinator – Diploma in Data Science for Social Sciences and Public Management 2025, Q-LAB PUCP **2025 – 2026**

- Academic logistics, faculty coordination and student evaluation processes.

RESEARCH EXPERIENCE

Undergraduate Thesis (in progress) – B.A. in Economics, PUCP **2026**

- “Socioeconomic Determinants of PM2.5 in Peru: A Spatial STIRPAT Analysis of Affluence, Productive Structure and Territorial Effects (1998–2019).” Spatial-econometric modelling within the STIRPAT framework.

Research Assistant – Q-LAB, Faculty of Social Sciences, PUCP **2024 – Present**

- **Ethnic mobility** – research project supervised by Prof. David Sulmont (Ph.D. Political Science; Head of the Dept. of Social Sciences). Data analysis and quantitative/econometric methodology for panel data using the ENAHO Panel 2020–2024.
- **"Bumeran" project** (2024–2025) – programming and web scraping of job postings from the Bumeran platform; reconstructed the most-demanded professional profiles to design training proposals preparing candidates for specific labour markets.

PROFESSIONAL DEVELOPMENT

Winter School in Advanced Methods for Social Sciences 2026, Q-LAB PUCP – 3 courses, 6 h each (full scholarship) **Aug 2026**

- Structural Econometrics in Labour Economics: Selection, Heterogeneity and Policy Evaluation
- Performance and Bias Evaluation in LLMs
- Debiased Machine Learning

Winter School 2025, Q-LAB PUCP – 3 courses, 8 h each (full scholarship) **Aug 2025**

- Recent Advances in Regression Discontinuity for Causal Inference in the Social Sciences – Prof. Sebastián Calonico (Ph.D. Economics, University of Michigan; UC Davis)
- Recent Advances in Time Series Forecasting with Machine Learning Applied to Economics and Investment – Prof. Marcelo C. Medeiros (Ph.D., PUC-Rio; University of Illinois Urbana-Champaign)
- Transformers in Large Language Models for Social Sciences and Public Policy – Prof. Sebastián Vallejo Vera (Western University)

LEADERSHIP & VOLUNTEERING

Project Coordinator – "Papel con Propósito: Recicla, Dona y Sana", PUCP RSU Social Fund **May – Dec 2025**

- Coordinated the managing team of the winning initiative of the **Fondo RSU 2025 (student category)**. Led an interdisciplinary team on a campus recycling programme; built a digital system to register and rank recycling performance; prototyped a smart waste bin connected to a database with engineering students.

Micro-project Leader – "Misión Fauna Libre: Recolección de datos en Lima", Wildlife Conservation Society Peru / RUA Perú / USAID **Nov 2023 – Mar 2024**

- Led a five-month field market-monitoring project on illegal wildlife trade in Lima; created and analysed market datasets and Excel dashboards to report community-monitoring findings.

Coordinator, Pro-Fund Events – Huellitas PUCP (non-profit student association) **Nov 2024 – Apr 2025**

- Coordinated the Pro-Fund Events area, organising fundraising activities for the association.

PROGRAMMING PROJECTS (github.com/Jhane080)

- **AI Research Assistant** – automated literature review and data analysis (data-cleaning module in progress).
- **Municipal Chatbot** – conversational assistant for municipal services.
- **Student Organizer App** – mental-health–focused productivity app inspired by Gmail and Microsoft To Do.
- **ML & Stata code** – analyses on the ENAHO Panel and the National Census.
- **Applied econometrics coursework** – R, Python and Julia; ML models (Random Forest, Lasso) for variable selection and prediction; documented on an academic webpage (HTML + GitHub).

SKILLS

Programming & software: Python (pandas, geopandas, xarray), R, Julia, Stata, SPSS, Excel, JavaScript, HTML.

Quantitative methods: Panel-data econometrics, causal inference (Difference-in-Differences, Regression Discontinuity), structural econometrics, debiased machine learning, machine learning (Random Forest, Lasso), time-series forecasting, web scraping.

AI: Building Claude agents and skills (e.g. automated document-consistency review); agentic workflows integrating Gmail and Google Calendar via connectors; Codex, model APIs, LLMs, prompt engineering (GPT-4); LLM performance and bias evaluation.

Surveys & fieldwork: Survey design, in-person enumeration (paper & digital forms), field monitoring, data-quality checks, data cleaning and management.

Tools: GitHub, QGIS (GIS/spatial data), Google Workspace, Notion, Canva.

Soft skills: Leadership and team coordination, teaching and mentoring, written and oral communication, adaptability, analytical and problem-solving skills, proactivity.

Languages: Spanish (native), English (advanced), Portuguese (intermediate), Japanese (basic).