

ANA ARMENDARIZ

+41 78 232 6677 ♦ Zurich, Switzerland ♦ Swiss B permit

anapaulaarmendariz99@gmail.com ♦ [LinkedIn](#) ♦ [GitHub](#) ♦ aparmendariz.github.io

PhD candidate in Econometrics working on causal inference, treatment effect estimation and policy learning, in both experimental and observational settings. Python, SQL, R.

EDUCATION

PhD in Economics and Econometrics (specialisation: Econometrics), University of St Gallen, Switzerland Aug 2023 – Expected July 2027

Swiss Institute for Empirical Economic Research (SEW). Supervisor: Prof. Dr. Michael Lechner.

Master in Data Analytics and Economics, University of Fribourg, Switzerland 2021 – 2023

GPA: 5.35/6, *magna cum laude*

Bachelor in Economics, Universidad de las Américas, Ecuador 2017 – 2021

GPA: 3.7/4

SKILLS

Programming	Python (NumPy, pandas, scikit-learn, PyTorch), SQL, R, Git, Stata
Methods	Causal inference and treatment effect estimation, causal machine learning (causal forests, double machine learning), policy learning, heterogeneous treatment effects, experimental and quasi-experimental design, hypothesis testing, high-dimensional inference
Languages	Spanish (native), English (C1), French (B2), Russian (B1), German (A2)

RESEARCH

Testing Effect Homogeneity and Confounding in High-Dimensional Experimental and Observational Studies. *With Martin Huber.* [arXiv:2602.19703](https://arxiv.org/abs/2602.19703). We propose a framework for testing the homogeneity of conditional average treatment effects (CATEs) across multiple experimental and observational studies, using double machine learning to handle high-dimensional covariates.

Overfitting in Policy Learning. *With Michael Lechner & Jana Marečková.* We propose a method to detect overfitting in policy learning models and develop tools to help applied researchers mitigate this issue.

Placebo-based Diagnostics for Heterogeneous Treatment Effects. *With Linda Odermatt, Michael Lechner & Jana Marečková.* We develop a sensitivity analysis tool for applied researchers which makes minimal parametric assumptions.

Impact Evaluation of Drug Consumption Rooms on Health and Criminal Outcomes. *Single author.* This study estimates the causal impact of the availability of Drug Consumption Rooms on health outcomes related to drug use, using a staggered difference-in-differences design on the universe of hospitalisations in Switzerland. Funded by the Swiss Society of Health Economics.

EXPERIENCE

Doctoral Researcher / Research Assistant August 2023 – Present
Swiss Institute for Empirical Economic Research, University of St Gallen *St Gallen, Switzerland*

- Developed documentation and testing frameworks for [mcf](#), an open-source Python package for Modified Causal Forests used to estimate heterogeneous treatment effects.
- Teaching Assistant: Causal Machine Learning (PhD level) & Microeconometrics (Master's level).

Visiting PhD Researcher February 2026 – July 2026
Universidad Autónoma de Madrid *Madrid, Spain*
Six-month visit funded by a competitive SNSF DocMobility grant (CHF 22,600). Hosted by the Departamento de Análisis Económico under the supervision of Eugenio Zucchelli, Jorge García Hombrados & Ana Nuevo Chiquero.

Research Assistant July 2022 – October 2022
Chair of Applied Econometrics and Policy Evaluation, University of Fribourg *Fribourg, Switzerland*
Supervisor: Prof. Dr. Martin Huber. Contributed to editing and implementing referee report revisions.

Innovation Lab Officer June 2022 – June 2023
Fribourg School of Management *Fribourg, Switzerland*
Designed and developed a mobile app to monitor affiliated startups ([view app](#)).

Junior Analyst

Vamos Pasajes

Created automated reports and KPIs to streamline data analysis and decision-making.

August 2019 – June 2020

Quito, Ecuador

CONFERENCES & PRESENTATIONS

2026: EuHEA (Rotterdam) · IAAE, *session chair* (Portugal) · 3rd Workshop on the Economics of Health and Human Capital (Madrid) · CSS Health Economics Workshop (Lucerne) · Congress of the Asociación de Economía del Ecuador (Quito) · Research Seminar, Universidad Autónoma de Madrid · HERB, University of Bologna

AWARDS & GRANTS

DocMobility Grant (CHF 22,600), Swiss National Science Foundation October 2025

PhD Project Fund (CHF 770), Swiss Society of Health Economics June 2025

Aschinger Prize for Latin American Academic Achievement, University of Fribourg September 2023

José Corsino Cárdenas Research Prize (second place), Central Bank of Ecuador April 2021

Honor Roll, Universidad de las Américas Spring 2020 & Autumn 2021

Summer School Scholarship, Yale University August 2019

ADDITIONAL TRAINING

Machine Learning for Treatment Effects and Structural Equation Models, Study Center Gerzensee August 2024

Winter School in Data Analytics & Machine Learning, University of Fribourg February 2022

VOLUNTEERING

Workshop Instructor, [Fundación Avanzar](#) April 2026 – Present

Designed and delivered workshops on costs and budgeting for women entrepreneurs from vulnerable backgrounds.