

ANA ARMENDARIZ

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PhD candidate in Econometrics with a focus on causal inference, causal machine learning and policy learning.

EDUCATION

PhD in Econometrics , University of St Gallen, Switzerland	2023 - Expected 2027
Master in Data Analytics and Economics , University of Fribourg, Switzerland	2021 - 2023
GPA: 5.35/6	
Bachelor in Economics , Universidad de las Américas, Ecuador	2017 - 2021
GPA: 3.4/4	

SKILLS

Programming languages	Python *** (NumPy, pandas, PyTorch) , R *** , SQL *** , Git ** , Stata **
Languages	Spanish (native), English (C1), French (B2), Russian (B1), German (A1)

WORK EXPERIENCE

Innovation Lab Officer Fribourg School of Management, Designed and developed a mobile app to monitor affiliated startups (View app).	June 2022 – June 2023 <i>Fribourg, Switzerland</i>
Junior Analyst Vamos Pasajes, Created automated reports and KPIs to streamline data analysis and decision-making.	August 2019 – June 2020 <i>Quito, Ecuador</i>

ACADEMIC WORK EXPERIENCE

Research Assistant Supervisor Prof. Dr. Michael Lechner Swiss Institute for Empirical Economic Research - Teaching Assistant: Causal Machine Learning (PhD level) & Microeconometrics (Master's level). - Developed documentation and testing frameworks for the Python package mcf.	August 2023 - Present <i>St Gallen, Switzerland</i>
Research Assistant Supervisor Prof. Dr. Martin Huber Chair of Applied Econometrics and Policy Evaluation Contributed to editing and implementing referee report revisions.	July 2022 - October 2022 <i>Fribourg, Switzerland</i>

RESEARCH PROJECTS

Testing Effect Heterogeneity and Confounding in High-Dimensional Experimental and Observational Studies. We propose a framework for testing the homogeneity of conditional average treatment effects (CATEs) across multiple experimental and observational studies.

Overfitting in Policy Learning. We propose a method to detect overfitting in policy learning models and developing tools to help applied researchers mitigate this issue.

Placebo-based Diagnostics for Heterogeneous Treatment Effects. 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. This study aims to estimate the causal impact of the availability of Drug Consumption Rooms on health outcomes related to drug use.

AWARDS

PhD Project Fund <i>Swiss Society of Health Economics</i>	June 2025
Aschinger Prize for Latin American academic achievement University of Fribourg	September 2023 <i>Fribourg, Switzerland</i>
Honor Roll Universidad de las Américas	Spring 2020 & Autumn Semester 2021 <i>Quito, Ecuador</i>

José Corsino Cárdenas Research Prize (second place)	April 2021
Central Bank of Ecuador	<i>Quito, Ecuador</i>
Finalist at National English Olympiads	June 2017
School No 48	<i>Minsk, Belarus</i>
Citizenship Award	June 2008
Samuel Tucker Elementary School	<i>Virginia, USA</i>

TEACHING

Microeconometrics (Master), University of St Gallen	Spring 2025
Macroeconomics (Assessment), University of St Gallen	Spring 2025
Causal Machine Learning (PhD, organizational tasks), University of St Gallen	Autumn 2024 & Spring 2025
Applied Econometrics (Bachelor), University of Fribourg	Autumn 2022
International Economics (Bachelor), Universidad de las Américas	Autumn 2019–2020
Principles of Economics (Bachelor), Universidad de las Américas	Autumn 2019–2020

RELEVANT COURSES

Machine Learning for Treatment Effects and Structural Equation Models	August 2024
Study Center Gerzensee	<i>Gerzensee, Switzerland</i>
Winter School in Data Analytics & Machine Learning	February 2022
University of Fribourg	<i>Fribourg, Switzerland</i>
Introduction to Data Analysis and Econometrics	July 2019
Yale University	<i>New Haven, USA</i>
Topics in International Economics	July 2019
Yale University	<i>New Haven, USA</i>