ÁLVARO CARRIL

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Expected: Feb 2024

2020

2013

2018 - Ongoing

2020 - Ongoing

2017 - 2018

2016 - 2018

2021 - Ongoing

2023 - Ongoing

2022

2014 - 2016

2014 - 2016

2014 - 2016

2023 2021, 2022

2021

2018 - 2023

EDUCATION

Ph.D. in Economics

Princeton University, Princeton, NJ

Specialization: Labor and Development Economics, Industrial Organization Princeton University, Princeton, NJ M.A. in Economics University of Chile, Santiago, Chile B.A. in Business & Economics **RESEARCH EXPERIENCE** Ph.D. Researcher, Princeton University Princeton, NJ Research Affiliate, ConsiliumBots New York, NY • Conducted independent research on educational & financial decisions using empirical and structural methods • Designed and implemented large-scale field experiments to measure biased beliefs and the effect of information on choices using Instrumental Variables methods Pre-Doctoral Fellow, National Bureau of Economic Research Cambridge, MA • Estimated the effect of major & institution choice on labor market outcomes using Regression Discontinuity methods • Published a peer-reviewed paper on covariate balance with a large number of clusters in random treatment assignments Research Associate, Abdul Latif Jameel Poverty Action Lab Chile & Dominican Republic • Estimated the effect of changes in international taxation on firm-level investment using Difference-in-Differences methods • Led 8 research assistants and developed software to automatize digitization and processing of historical data at scale SELECTED PROJECTS IcfesBot (link ♂) Colombia • Designed a chatbot that surveys and informs students about higher education degrees and financing options • Annually deployed chatbot to $\approx 100,000$ high school seniors in coordination with the Ministry of Education • Developed multiple back-end services using AWS Lambda, API Gateway, DynamoDB and Aurora (MySQL) • Refined cold-start recommendation system by tuning and A/B testing different machine learning models OsoBot (link ♂) Bogotá, Colombia • Designed and developed a chatbot to help students explore occupations and corresponding career paths • Developed and evaluated the effectiveness of custom LLMs in delivering reliable and relevant educational information • Deployed chatbot to 50,000 students in Bogotá in coordination with local government Timetable Designer (link ♂) USA. Chile • Led the design of an API to generate school timetables using Gurobi, serving a centralized school platform **COMMUNICATION & TEACHING EXPERIENCE** Graduate Teaching Assistant, Princeton University Princeton, NJ • Organized and taught precepts in Microeconomics, Fintech and Econometrics at the graduate and undergraduate levels Associate Lecturer, Abdul Latif Jameel Poverty Action Lab Chile, Salvador, USA • Organized and taught workshops on impact evaluation methods (theory & R) to policy-makers and graduate students High School Teacher, Teach For All Chile • Taught mathematics, physics and Python programming in a low-income school **SELECTED HONORS & AWARDS** Social Data Science Graduate Fellow, for research at the technical forefront of quantitative social sciences Overdeck Education Fund, to support creative, interdisciplinary research on important issues in education The Agency Fund Grant, to support projects that leverage AI to enhance human agency Princeton University Graduate Fellow, funded stipend and tuition SKILLS

- Programming: Python, R, Julia, Stata (highly proficient); SQL, JavaScript, Bash (working knowledge)
- AWS: Lambda, API Gateway, EC2, DynamoDB, Aurora
- Statistics & Methods: Causal Inference (RCT, IV, DiD, RDD), Structural Modeling (Demand Estimation)