

Jonatan Blank Hall

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Citizenship: German and Mexican

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Professional Summary

Quantitative professional with a Master's in Economic Growth and a strong foundation in applied mathematics, statistics, and programming. Founder of a tech education and software startup with 1,000+ students, delivering full-stack applications, AI integration, and client-focused solutions. Skilled in econometric modeling, machine learning, and policy evaluation. Fluent in Spanish and English, with intermediate proficiency in French and German. Proven communicator, educator, and project leader across academic and entrepreneurial settings.

Education

Lund University, Lund, Sweden

Master of Science in Economic Growth, Development and Population

Graduated: June 2025

- **Thesis 1:** Long- and Short-term Effects of Privatization in Latin America – A Comparative Study of Argentina, Chile, and Mexico
- **Thesis 2:** Evaluating the Long-Run Socio-Economic Effects of Conditional Cash Transfer Programs: The Case of Mexico
- **Relevant Coursework:** Advanced Econometrics, Developmental Economics, Advanced Analysis of Economic Change, Advanced Machine Learning, Demographic Change Analysis, Deep Learning.

National Autonomous University of Mexico (UNAM), Mexico City, Mexico

Bachelor of Science in Applied Mathematics

Graduated: January 2023

- **Thesis:** Achieving the 17 Sustainable Development Goals within the 9 Planetary Boundaries
- **Capstone Project:** Quantitative Methods for HIV Analysis
- Graduated with honors

Work Experience / Internships

Founder & Lead Developer

Zero2Hero, Remote

April 2022 - Present

www.zero2hero.lat

- Founded a tech education and software development startup with over 1,000 students across Latin America and Europe
- Delivered tailored software solutions for startups and NGOs using Python, JavaScript, Flask, FastAPI, and React
- Led development of AI-integrated web applications, including NLP systems for psychological session analysis and custom dashboards for client data insights
- Designed and taught live and asynchronous programming courses in Python, R, JavaScript, and web development, emphasizing practical applications
- Managed a cross-functional development team and coordinated with clients to scope, plan, and execute projects efficiently and on schedule

Intern - Data & Policy Analysis

Mexican Center for Industrial Ecology (CMEI), Mexico, Mexico City

January 2023 - June 2023

- Conducted data mining and web scraping using BeautifulSoup and Selenium to extract environmental policy data
- Built automated tools for environmental impact assessments using Python and R
- Collaborated on ecological modeling and contributed to national-level sustainability reporting
- Supervisor: Dr. Daniel Itzamna Avila Ortega

Intern - Environmental & Agricultural Modeling

FABLE (Food, Agriculture, Biodiversity, Land-Use, and Energy) Mexico

January 2022 - August 2022

- Developed a platform to convert crop production databases into georeferenced maps
- Integrated national datasets into GLOBIOM (Global Biosphere Management Model) using Python, SQL, and GIS tools
- Coordinated with IIASA researchers to support international modeling efforts
- Supervisors: Dr. Gordon McCord and Dr. Fernanda Herrera

Skills

Mathematics & Statistics

Differential equations (ODEs & PDEs), dynamical systems, stochastic processes, time series analysis, survival analysis, advanced probability, statistical inference, Bayesian statistics, network theory, game theory

Programming Languages

Python (advanced), R (advanced), SQL (advanced), HTML/CSS (advanced), Javascript (intermediate), MATLAB/STATA (intermediate), QGIS (intermediate), Git and GitHub

Data Science, Machine Learning & AI

Statistical modeling, regression (linear, ridge, lasso), classification, time series forecasting, natural language processing (NLP), model evaluation and comparison, random forests, SVM, KNN, scikit-learn, TensorFlow, Keras, Shiny, Plotly, EDA, correlation analysis, data visualization with ggplot2, seaborn, matplotlib, StatsModels

Econometrics & Economic Analysis

DiD, IV, synthetic control, panel data models, fixed effects, causal inference, time series modeling; policy impact evaluations; macroeconomic and labor economics application

Web Development & Deployment

Flask, FastAPI, Bootstrap, React (basic), SQLAlchemy, REST APIs, Heroku, Docker, MongoDB, PostgreSQL, MySQL, SQLite

Data Engineering & Automation

ETL pipelines, API data retrieval, web scraping with BeautifulSoup and Selenium, data wrangling with Pandas/dplyr, task automation, data cleaning, geographical data handling, data transformation workflows

Leadership & Communication

Startup founder and team leader, client-facing experience, taught coding to 1,000+ students, public speaking awards (Model UN), project coordination.

Languages

- Spanish – Native
- English – Fluent
- German – Intermediate (CEFR B1 Certified)
- French – Intermediate (CEFR B1 Certified)
- Swedish – Basic