

Jonatan Blank Hall

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PROFILE

Development economist and applied mathematician who evaluates public policy with causal methods and builds the digital systems that deliver services. Four years running a self-funded education and software enterprise that has trained 1,000+ learners across Latin America, the United States and Europe. Spanish (native), English (fluent), German and French (B1 certified).

EDUCATION

Lund University, Sweden

June 2025

MSc (120 credits), Major: Economic Development · Programme in Economic Growth, Population and Development

- Thesis: *Evaluating the Long-Run Socio-Economic Effects of Conditional Cash Transfer Programs: The Case of Mexico* (supervisor Dr. Jutta Bolt). MxFLS does not identify beneficiaries, so I inferred exposure with a municipality-level penetration measure built from CONAPO 1995 marginality indices. Cohort difference-in-differences ($n = 8,990$, R): early exposure raised schooling by 1.57 years for women and 1.02 for men per SD of penetration ($p < 0.01$), plus gains in wage work and earnings.
- Thesis: *Exploring the Economic Effects of Privatization: Short and Long-Term Perspectives from Chile and Argentina*. Mixed-methods comparison: privatization brought short-run stabilization in both countries (Argentina's FDI inflows rose from 0.45% to 2.5% of GDP), but long-run outcomes diverged with policy continuity and regulatory strength.

National Autonomous University of Mexico (UNAM), Mexico City

August 2023

BSc Applied Mathematics, with honours (Mención Honorífica) · average 9.60 / 10

- Thesis: *Achieving the 17 Sustainable Development Goals within the 9 Planetary Boundaries*; published as an interactive platform (sdginpb.com). Shared first place, Premio Francisco Aranda Ordaz 2025 (undergraduate theses), Asociación Mexicana de Estadística. Capstone: quantitative methods for HIV analysis.

PROFESSIONAL EXPERIENCE

BlankSoftware

June 2025 – present (full-time)

Founder & Director · blanksoftware.dev

- Built the membership platform for Clínica de Valle (clinicadevalle.org), which extends health coverage to farm workers and their families in rural Mexico: it now covers **2,371 people**, 1,345 of them enrolled through 45 employers. Designed for minimal technology on the member's side: registration with only the national ID number (CURP), a beneficiary code shown at the clinic, and cash payment.
- Sole developer of Scrap360 (scrap360.mx), the operating system of a metal-recycling business (weighing notes, inventory, accounting across branches): **MXN 1.36 billion** in approved purchase and sale transactions, about 10,900 tonnes of metal, since January 2026.
- Lead backend developer of PIA (piabienestar.com), a live platform, now in its second beta phase, connecting patients with psychologists: FastAPI/PostgreSQL API, role-based access, Zoom and Google Calendar scheduling, Mercado Pago subscriptions, and an asynchronous AI pipeline (Celery/Redis) that transcribes sessions with Whisper and writes structured clinical summaries with an LLM.
- Delivered 19 systems (16 in production), including OWA Lab's booking and payments backend (MXN 600,000+ collected since July 2026); operate the company's VPS hosting platform (Linux, Docker, PostgreSQL).
- Lead a team of four developers and manage the full client cycle, from scoping and budgeting to delivery and support.

Zero2Hero

April 2022 – present

Founder & Director (remote) · zero2hero.com.mx

- Built a self-funded tech-education enterprise that has trained 1,000+ learners, most without a technical background, across Latin America, the US and Spain.
- Designed and teach 22 live courses and three long-form programs, including a 12-month Python Developer track; free learning communities and a low-cost subscription widen access.
- Lead a team of three instructors and a marketing team; responsible for curriculum quality, budgets and growth.

Mexican Center for Industrial Ecology (CMEI), Mexico City

Jan – Jun 2023

Intern, Data & Policy Analysis

- Built Python and R tools for environmental impact assessment; contributed to national sustainability reporting.

FABLE Mexico (UN SDSN / IIASA FABLE Consortium)

Jan – Aug 2022

Intern, Environmental & Agricultural Modeling

- Integrated national crop and land-use data into IIASA's GLOBIOM model (Python, SQL, GIS) with IIASA researchers.

SKILLS

Econometrics & evaluation: difference-in-differences, instrumental variables, synthetic control, panel data and fixed effects, impact evaluation, household surveys; Bayesian statistics, time series, survival analysis, stochastic processes.

Data & AI: R, Python, Stata, SQL, QGIS; scikit-learn, TensorFlow, NLP and LLM applications, LangGraph for AI agent orchestration; ETL pipelines and web scraping.

Digital systems: FastAPI, Flask, React, PostgreSQL, Docker, Linux VPS server administration, payment integrations, Git.

Languages: Spanish (native), English (fluent), German (B1, certified), French (B1, certified), Swedish (basic).