

Jonatan Blank Hall

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Applied mathematician enthusiastic for sustainable development planning, intelligent economic growth, digitalization of services, environmental issues and demographic growth.

Education

Autonomous National University from Mexico

January 2023

[Bachelor of Applied Mathematics](#)

Average of 9.60 / 10

- Graduate with thesis: *"Achieving the 17 Sustainable Development Goals within the 9 Planetary Boundaries"*. The work provides quantitative and qualitative arguments to support the idea that socio-economic growth, if done in a business-as-usual manner, will damage core environmental systems which control the earth stability in which humanity has thrived.
- Capstone project: *Quantitative methods for HIV Analysis*. The goal of the project was to determine if HIV in Covid-19 infected patients represented a risk factor - this is, higher probability of hospitalization or death. The purpose of this analysis was to decide if HIV patients should be considered a vulnerable group in Covid-19 related issues.

Technical Skills

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|-------------------------|------------------------|------------------------|
| • Quantitative Analysis | • Web Development | • R / RStudio |
| • Data Visualization | • Statistical Learning | • JavaScript |
| • Web Scraping | • Python | • Time Series Analysis |
| | | • Survival Analysis |

Professional Skills

CMEI: Centro Mexicano de Ecología Industrial (NGO)

October 2022 - Present

Internship

- Data mining projects on environmental issues to improve environmental impact assessment.
- Project Manager: [Daniel Itzamna Avila Ortega](#)

FABLE Mexico

January 2022 - August 2022

Social Service

- Developed a program to convert crop information in Mexico into a georeferenced map. This allows policies to be targeted at specific areas rather than national or state targets, which is potentially more efficient.
- Worked together with members of **IIASA** to transform Mexican national and subnational information into readable inputs for the *GLOBIOM* model.
- Project Leader: [Gordon McCord](#) ; Project Manager: [Fernanda Herrera](#)

Programming Courses

June 2021 - Present

Personal entrepreneurship

- [Online courses](#) which focus on teaching students of all ages and backgrounds programming skills. Most courses are introductory and focus on real-life applications.
- Programming languages taught include Python, R and JavaScript.
- This venture allowed financial freedom throughout my higher education.

Interpersonal skills

Strengths: Enthusiasm, Empathy, Good communication, Leadership, Perseverance, Ambition, Determination

Computational Learning Club President

June 2020 - December 2020

Faculty of Science, UNAM

- Lead the organization of a technological learning student club in the Faculty of Science. Contacted and planned informative talks from outstanding speakers in scientific and technological fields. Organized instructive events for the enhancement of abilities development.
- Project advisor: [Dr. Sergio Iván López Ortega](#)

Debate Club President, [IMEE](#)

January 2019 - December 2019

Faculty of Science, UNAM

- Lead the student debate club in the Faculty of Science. The club belongs to an inter-university organization of business and finance enthusiasts.
- Prepared relevant research and instructed the debaters with topic-related information and argumentative skills.

Certifications

- [English Language](#). *December 2022*
- [German Language](#). *August 2019*
- [Intermediate Python](#): Course offered by the School of Science and Technology of the National University of San Martin. *June 2021*