

## Contactar

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(LinkedIn)

[github.com/FavioVazquez](https://github.com/FavioVazquez) (Other)

## Aptitudes principales

Liderazgo

Estrategia empresarial

Technical Solution Design

## Languages

Español (Native or Bilingual)

Inglés (Native or Bilingual)

## Certifications

edX Verified Certificate for  
Introduction to Apache Spark

Coursera Honor Code Søren  
Kierkegaard - Subjectivity, Irony and  
the Crisis of Modernity

edX Honor Code Certificate for  
Scalable Machine Learning

Google Cloud Platform Big Data and  
Machine Learning Fundamentals

## Honors-Awards

Summa Cum Laude Prize

Prize VAD (Vicerrectorado  
Académico)

# Favio Vazquez

Lead Data Scientist | LinkedIn Top Voice | AI & ML Evangelist |  
Drummer

Miguel Hidalgo, Ciudad de México, México

## Extracto

Physicist and computer engineer with a MSc in Physics. Working on  
Data Science and artificial intelligence.

I've helped dozens of companies in LATAM and the world to  
implement machine learning models, enable a data-driven culture  
and use AI to transform their businesses.

I love new challenges, working with a good team and having  
interesting problems to solve, also applying my knowledge and  
expertise in science, data analysis, visualization, and machine  
learning to help the world become a better place.

## Experiencia

H2O.ai

2 años 9 meses

Senior Data Scientist (GenAI, AutoML)

septiembre de 2023 - Present (7 meses)

México

- Generated over \$2M USD in new business over two years and secured +20 customers in the region.
- Exceeded annual quotas by 120% in 2022 and 115% in H1 2023.
- Building tailored demos and proof of concepts for prospects using value engineering techniques and methods.
- Working with the customer engineering team to develop data science solutions for our LATAM customers.
- Developing data science solutions and applications using Python and its ecosystem, H2O Driverless AI and H2O AI Cloud.
- Leading the efforts for Generative AI in the region and working with customers to implement tailored LLM solutions.

Data Scientist / Solutions Engineer

julio de 2021 - septiembre de 2023 (2 años 3 meses)

## Mexico City, Mexico

- Working in the sales engineering team to develop several data science solutions for our LATAM customers.
- Developing data science solutions and applications using Python and its ecosystem, H2O Driverless AI and H2O Hybrid Cloud.
- Contributing in the internal private code and open source solutions for several H2O products.
- Hosting webinars, writing articles and speaking on several conferences about AI, ML and Data Science in general.
- Creating the future of the world with AI.

## Latam AI - Inteligencia Artificial Aplicada (IAA)

### Co-Organizer

julio de 2022 - Present (1 año 9 meses)

## Mexico

An initiative to help promote the use of machine learning in Latin America. Join us Aug 31st-Sept 1st!

- Organizing the newest best conference for AI and Data Science in LATAM.
- Connecting with partners and speakers and engaging them in the event.
- Marketing for the event and communications.
- Part of the steering committee
- Speaker

## Closter

### CEO / Chief Data Scientist

septiembre de 2019 - Present (4 años 7 meses)

## Mexico City Area, Mexico

The new and best e-learning platform. More coming soon!

## EMERITUS Institute of Management

5 años 2 meses

### Faculty Member, Professor and SME in Data Science

junio de 2019 - Present (4 años 10 meses)

## Mexico City Area, Mexico

- Designing courses on Data Science, Machine Learning and AI
- Work close with Universities like Columbia, Wharton, Dartmouth, MIT and Cambridge to develop courses and learning strategies
- Speaker an active member of the data science community
- Delivering tutorials, demos and lectures on data science and related topics

- Using my expertise in data science to review content and courses that can improve the life of thousands of people that want to learn

### Course Lead / TA

febrero de 2019 - Present (5 años 2 meses)

Monterrey Area, Mexico

- Course Lead for Wharton course on Business Analytics in Spanish.
- Creating webinars in Spanish for the students.
- Assist teachers in the course.
- Office hours with the students and QA.

### Ciencia y Datos

Founder

julio de 2018 - Present (5 años 9 meses)

Mexico

Bringing data science into the Spanish world with posts, articles, webinars and courses. We also post content in English, but the core is in Spanish. More surprises coming soon ;)

### Universidad Nacional Autónoma de México

Professor

agosto de 2020 - enero de 2023 (2 años 6 meses)

Mexico City, Mexico

Lecturer:

- Data Mining
- Advanced Machine Learning
- Coordinator of the certificate program in Data Science

### Tecnológico de Monterrey

Professor

febrero de 2020 - marzo de 2022 (2 años 2 meses)

Mexico City Metropolitan Area

- Teaching courses on Data Science, Business Analytics and more
- Developing material for data science courses

### International Journal of Business Analytics and Intelligence (IJBAI)

Editor

enero de 2018 - enero de 2022 (4 años 1 mes)

New Delhi Area, India

- Analyzing and commenting on research papers to make them publishable.
- Column writer about Data Science and Data related projects.

- International member of the editorial board ensuring that content is journalistically objective and relevant.
- Aggregating, curating, and editing interesting data stories from a network of contributors around the globe.

## Iron AI

### Chief Data Scientist (CDS)

mayo de 2017 - enero de 2020 (2 años 9 meses)

Mexico City Area, Mexico

- Manage Data Science teams and projects.
- Principal developer of Optimus, a cleaning data library built with Apache Spark.
- Expand Data as Service collaboration with partners in Mexico and other international markets.
- Apply deep learning algorithms to improve understanding of user behavior and content.
- Leverage experience with consulting to define business problems, work with and manipulate data, develop data science and analytical algorithms and solutions, and execute analytical models into production.
- Conduct research and case studies on leading edge technologies to make determinations on the probability of implementation.

## Raken Data Group

### Senior Data Scientist

abril de 2018 - julio de 2019 (1 año 4 meses)

Monterrey Area, Mexico

- Working cross-functionally to define problem statements, collect data, build analytical models and make recommendations.
- Providing leadership and mentorship to other members of the team.
- Leverage tools like Spark, R, Python, Tableau, Datameer, Hadoop, Hive, SAS, Impala and SQL to drive efficient analytics under a Cloudera Environment.
- Building models that elevate the customer experience and track impact over time.
- Democratize AI and inspire business leaders to harness the transformative power of machine and deep learning.

## Afi Escuela de Finanzas

### Data Science Lecturer

febrero de 2018 - julio de 2019 (1 año 6 meses)

Mexico City Area, Mexico

- Academic Advisor of Data Science and Big Data Expert programs in Mexico.
- Lecturer:
  - \* Programming in Python and R
  - \* Data science with Python, R and Apache Spark
  - \* Advance Data Science Techniques
  - \* Time series for Data Science
  - \* Deep Learning with Python
- Speaker in main presentations of the School.

## Business Science University

Data Science Course Instructor / Data Scientist

julio de 2018 - junio de 2019 (1 año)

State College, Pennsylvania Area

- Creator of Data Science for Business with Python course.
- Transforming end-to-end analysis that includes data gathering and requirements specification, processing, analysis, ongoing deliverables and presentations into content that is easy to learn and apply to business and organizations.
- Help building a commercial strategy for course development.
- Content creator and curator for data science topics.
- Developing solutions for real-world, large-scale problems.

## Instituto Internacional de Ciencia de Datos

Senior Editor

enero de 2018 - febrero de 2019 (1 año 2 meses)

Mexico City Area, Mexico

- Creating articles about data science and helping with the data driven strategy.
- Backing up my data science related post in LinkedIn.
- Advisor in the communication strategy of the institute.

## OXO

Principal Data Scientist

abril de 2018 - octubre de 2018 (7 meses)

Monterrey Area, Mexico

- Leading and Guiding Oxco's Data Science Team inside IMA(Information Management & Analytics) in the effective use of AI and data.
- Managing Data Science Workflows implementing Machine Learning and Deep Learning with Apache Spark, Hive, Impala, SAS, Keras and TensorFlow in a Cloudera Environment.

- Conduct research and case studies on leading edge technologies to make determinations on the probability of implementation.
- Leading the adoption of emerging technology products tools and analytic techniques.
- Formulating machine and deep learning approaches while paying attention to business metrics, designing features from the rich data available from many sources, training, evaluating, and deploying models.
- Collaborate with engineers to implement and deploy scalable solutions
- Provide thought leadership by researching best practices, conducting experiments, and collaborating with industry leaders

## BBVA Data & Analytics

### Data Scientist / Tools Manager MX

julio de 2017 - abril de 2018 (10 meses)

Ciudad de México y alrededores, México

- Data science and Machine Learning with Apache Spark.
- Code development for several financial projects for the Bank following a Scrum Methodology.
- Data Analysis with Python and R.
- Maintain projects lifecycles with testing and CI using Jenkins and Travis.
- Productionize models with Apache Spark (pyspark, and Scala API).
- Manager of Tools group MX, defining the Data Science environment and best practices around development, productivization and reuse of code.
- Data Engineering for feature extraction and selection.

## Instituto de Ciencias Nucleares - UNAM

### Associate Student & Investigator - Gravitation and Cosmology Department

julio de 2015 - julio de 2017 (2 años 1 mes)

Ciudad de México y alrededores, México

- Big Data analytics for Scientific Computing.
- Cosmological Simulations.
- Parallel Computing with Apache Spark.
- Data mining with R, Python and Apache Spark.
- Data visualization with Python (Matplotlib), R (RCharts), JavaScript (D3, Charts).
- Theoretical Physics.
- Conformal Cyclic Cosmology.
- Scientific Computing with Julia.

Instituto Nacional de Investigaciones Nucleares  
Master Thesis and Investigator in Data Science for Cosmology  
julio de 2015 - julio de 2017 (2 años 1 mes)  
Mexico

- Cosmological Parameter Inference with CosmoSIS.
- Scientific computation with Python, Julia and C++.
- Big Data Analysis with Apache Spark (Pyspark and Scala).
- Parallel computation with C++ (MPI).
- Bayesian Statistics for Cosmology.
- Develop Machine Learning Algorithms and contribute to Spark MLlib.
- Data Science for Cosmology Evangelist.
- Research in Cosmology, General Relativity, Modified Gravity and Cosmological Simulations.
- Validated numerics in Julia.

Instituto Venezolano de Investigaciones Científicas (IVIC)  
Professional in Training (High Energy Astrophysics)  
octubre de 2014 - agosto de 2015 (11 meses)  
Miranda, Venezuela

- Investigation in High Energy Astrophysics, Numerical Relativity and Intergalactic Medium Physics.
- Develop code to analyse and study the spectra of X-Ray sources in Active Galactic Nuclei.
- Data reduction with CIAO.
- Model creation and analysis with XSpec.
- Develop code in Python and C++ to study the results of various models, fit astronomy spectral data and plot Growth Curves.

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Data Scientist (Big Data and Machine Learning with Spark)  
enero de 2015 - julio de 2015 (7 meses)  
Maracaibo, Zulia. Venezuela

- Big Data Analyst and data miner with Apache Spark and Hadoop.
- Visualization and exploratory data analysis with R and Python.
- Developer of machine learning algorithms.
- Big Data consultant for Retail Companies.
- Team leader for data science projects with Apache Spark.
- Intern's trainer for Apache Spark, Apache Mesos and Cloudera Environment.
- Management and configuration of computers clusters and distributed computation.

## Instituto Venezolano de Investigaciones Científicas (IVIC)

2 años

### Undergraduate Research Fellow (Computational Physics)

2013 - 2014 (1 año)

Miranda, Venezuela.

- Investigation in Active Galactic Nuclei, Missing Baryons, X-Ray Spectroscopy, Computational Physics.
- Determination of the Baryonic Density Parameter in the Warm-Hot Intergalactic Medium of the Cosmic Web Sculptor Wall from a High Resolution X-Ray Spectroscopic Analysis (Undergraduate Thesis).
- Data reduction and analysis from Chandra X-Ray Observatory (NASA) raw data.
- Study and develop code in CIAO and XSpec.

### Visiting Student (Cosmological Perturbations)

2012 - 2013 (1 año)

Miranda, Venezuela.

- Investigation in General Relativity, Inflationary Cosmology, Second Order Cosmological Perturbations.
- Create weekly reports in LaTeX about the main topics of investigation.
- Obtain the Einstein's Field Equations in the second order of Cosmological Perturbations.
- Develop final report with detailed analysis of the topics of investigation and some insights about my learning.

## Laboratory of Astronomy & Theoretical Physics

### Undergraduate Research Fellow (Cosmology and General Relativity)

marzo de 2010 - diciembre de 2013 (3 años 10 meses)

Universidad del Zulia. Maracaibo, Zulia. Venezuela.

- Study the topics of:  
Advance and applied mathematics.  
Topology.  
Differential Topology.  
Einstein's Special and General Relativity.  
Cosmology (Standard).

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- Develop scientific codes to analyze physical problems via numerical methods in C++ and Python.
- Develop Bash Scripts.
- Moderator of the Lab's web page, and content creator.



## Centro de Modelado Científico - CMC

Investigation Assistant and Seminar Organizer

marzo de 2010 - julio de 2012 (2 años 5 meses)

Universidad del Zulia. Maracaibo, Zulia. Venezuela.

- Seminar organizer for the Astrophysical department.
- Moderator of the Lab's web page, and content creator.
- Study and develop simple codes in C++, Python, Java.
- Data analysis with R and Matlab.
- Scientific computation with C++.
- Symbolic mathematic with Mathematica.

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## Educación

Universidad Nacional Autónoma de México

M.Sc. in Physics, Cosmology and Data Science for Cosmology. · (2015 - 2017)

Universidad Rafael Urdaneta

B.S. Degree in Computational Engineering, Scientific

Computation · (2010 - 2015)

Universidad del Zulia

B.S. Degree in Physics, General Relativity and Cosmology · (2010 - 2014)