

IRVING GÓMEZ MÉNDEZ



irving-gómez-méndez-3833b711a

<https://irvinggomez.com>



gomendez.irving@gmail.com



(+52) 55 3730 7802

Summary

I am a mathematician that merges the experience in applied statistics and data science with a solid theoretical background in statistics (Regression, Inference, Multivariate Analysis, etc.) and machine learning (Random Forests, Neural Networks, SVM, Recommender Systems, etc.) who enjoys passing from theory to development of tech products.

A portfolio of past and current projects can be found at <https://irvinggomez.com/#projects>

Computing Skills

Programming Languages:	Python, Julia, R
Data Visualization:	Plotly, Tableau, Shiny, Ggplot2
Deep Learning:	TensorFlow
Big Data:	Pyspark
Other Data Analysis:	SPSS, Google Analytics
Other Languages:	L ^A T _E X, HTML, CSS, SQL

Professional Experience

OPI Analytics

Sr. Data Scientist

August 2020 - December 2020

- Development and improvement of end-to-end projects for sale's forecasts.
- Monitor and validation of building blocks.
- Automation of data science processes.
- Validation of pricing strategies.

Centro de Investigación en Matemáticas

Postgraduate Student in Probability and Statistics

August 2014 - June 2021

- Implementation of random forests algorithms to handle data with missing values.
- Implementation of neural networks for recommender systems with partial information.
In collaboration with Inria Lille-Nord Europe.
- Development of methodologies for detection of illegal traffic of species in America.
In collaboration with Cinvestav-Irapuato.
- Design and development of a graphical user interface for inspection data in reliability.
- Implementation of methodologies for control quality with heavily censored data.
- Statistical consulting for the automotive industry, improving its warranty management.
- Reliability analysis for the food industry, increasing preference of consumers.
- Teaching assistant in undergraduate and graduate subjects.

Academic Qualifications

PhD in Probability and Statistics	2017 - 2021
Centro de Investigación en Matemáticas (CIMAT), Guanajuato, Mexico	
Thesis: <i>Random Forests and Autoencoders with Missing Data</i> , under the direction of Dr. Emilien Joly	
Research stay	2020
Institut National de Recherche en Informatique et en Automatique (Inria), Lille, France	
<i>Actively Querying Missing Information Using Neural Networks</i> , in collaboration with Dr. Jill-Jênn Vie	
MSc in Probability and Statistics	
Centro de Investigación en Matemáticas (CIMAT), Guanajuato, Mexico	2014 - 2016
Mathematical Engineer	2009 - 2014
Instituto Politécnico Nacional (IPN), Mexico City, Mexico	
Graduate by completion of master's degree credits	
Exchange Student	2012
Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil	
Scholarship holder by the Instituto Politécnico Nacional (IPN)	

David Sprott Award, 2015

Annual prize granted by the Centro de Investigación en Matemáticas (CIMAT) to the best master's exam in the area of statistics.

Selected Talks

12/2020
Hispanohablante Seminar, Guanajuato
<i>Consistency of a Random Forest Algorithm with Missing Entries</i>
03/2020
Inria Sequel Seminar, Lille
<i>Some ideas for random forests with missing values</i>
01/2020
TRIPODS workshop CIMAT-University of Arizona, Guanajuato
<i>Some ideas for random forests with missing values</i>

Certifications

<i>Google Analytics</i>
<i>Data Sets with SQL</i>
<i>SQL for Data Science</i>
<i>Statistical Analysis with SPSS</i>

Languages

Spanish	Native
Portuguese	Fluent
English	Fluent
French	Basic
Russian	Basic