

IRVING GÓMEZ MÉNDEZ



irving-gómez-méndez-3833b711a



gomendez.irving@gmail.com



<https://irvinggomez.com>

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:	Spark, Pyspark
Data Analysis:	SPSS, Google Analytics
Other Languages:	L ^A T _E X, HTML, CSS, SQL

Professional Experience

Centro de Investigación en Matemáticas

PhD Candidate in Probability and Statistics

August 2016 - Now

- Research and implementation of algorithms to handle complex missing mechanisms using random forests.
- Implementation of algorithms to actively querying missing information for recommender systems using neural networks.

In collaboration with Inria Lille-Nord Europe.

- Development of new methodologies based on non-exhaustive classification for detection of illegal traffic of species in America.

In collaboration with Cinvestav-Irapuato.

- Teaching assistant in undergraduate and graduate subjects.

MSc in Probability and Statistics

August 2014 - July 2016

- 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.

PESiSa

External Advisor

January 2014 - July 2014

- External advisor responding directly to the engineer direction.
- Improvement of control quality systems.
- Implementation of 5S processes.
- Design of lean manufacturing projects.

Academic Qualifications

PhD Candidate in Probability and Statistics	2016 - Now
Centro de Investigación en Matemáticas (CIMAT), Guanajuato, Mexico	
Thesis: <i>Random Forests 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> , on 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 Centro de Investigación en Matemáticas (CIMAT) to the best master's exam in the area of statistics.

Conferences Attended

07/2018
XXVIII Annual Conference of the International Environmetrics Society, Guanajuato
09/2017
I School of Data Science, Cuernavaca
09/2015
XXX National Forum on Statistics, Acapulco
03/2014
XII School of Probability and Statistics, Guanajuato

Certifications

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

Conferences Given

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>
05/2019
Probability and Statistics Seminar CIMAT, Guanajuato
<i>Regression with missing data using random forests</i>

Languages

Spanish	Native
Portuguese	Fluent
English	Fluent
French	Basic
Russian	Basic