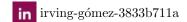
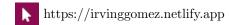
# IRVING GÓMEZ MÉNDEZ







# Summary

I am a mathematician that merges the experience in applied statistics and data mining, and a strong theoretical background in statistics (Regression, Inference, Multivariate Analysis, etc.) and machine learning (Random Forests, Neural Networks, SVM, etc.) who enjoys passing from theory to implementation of digital products.

## Computing Skills

## Research Interests

Programming Languages: Python, TensorFlow, Julia, R

Query Languages: SQL Visualization Tools: Shiny

Other Languages: LATEX, HTML, CSS

Computer Statistics Nonparametric Statistics Inference with Missing Data Data Science and Machine Learning

## Academic Qualifications

#### PhD Candidate in Probability and Statistics

Thesis: Random Forests with Missing Data, under the direction of Dr. Emilien Joly

#### Research stay

Actively Querying Missing Information Using Neural Networks, on collaboration with Dr. Jill-Jênn Vie

Courses: Scientific Computing for Probability and Statistics, Statistics for Complex Data, Data Science, Pattern Recognition, Asymptotic Theory for Probability and Statistics, Genomics

#### MSc in Probability and Statistics

Thesis: Gráficos de Control Tipo EWMA para Datos de Inspección en Confiabilidad (EWMA Control Charts for Inspection Data in Reliability), under the direction of Dr. Enrique R. Villa Diharce

Courses: Mathematical Statistics, Statistical Inference, Stochastic Models, Statistical Models, Reliability, Nonparametric Inference, Multivariate Analysis, Statistics for Industry and Natural Sciences

#### Bachelor's degree

Mathematical Engineer

Graduate by completion of master's degree credits

#### Exchange Student

Scholarship holder by the Instituto Politécnico Nacional (IPN) to study Operations Research and Statistics

# David Sprott Award

## **Professional Activities**

2015-2019

Teaching Assistant at CIMAT, Guanajuato

Statistical Inference 2015, 2016, 2017, 2018, 2019

Statistical Models 2017, 2018, 2019

10/2019

I Workshop in Deep Learning and Data Science, Guanajuato

Presentation of the work: Random Forests with Missing Data

11/2017

Workshop in Statistics, Data Mining and Environmental Sciences, Oaxaca

Presentation of the work: EWMA Control Charts for Inspection Data in Reliability

01/2017

X Workshop on the Solution of Industrial Problems, Guanajuato

Industrial Collaboration: Statistical Consulting for Warranty Data Analysis for the Automotive Industry

11/2016

I Symposium of Inference and Statistical Modeling, Guanajuato

Presentation of the work: EWMA Control Charts for Inspection Data in Reliability

01/2016

IX Workshop on the Solution of Industrial Problems, Guanajuato

Industrial Collaboration: Statistical Consulting for Reliability Analysis for the Food Industry

06/2015

XII Workshop on the Solution of Calculus Problems, Guanajuato

Monitor for a team of undergraduate students.

08/2013 - 07/2014

Control Quality Engineer at PESISA, Mexico City

Implementation of 5S processes and lean manufacturing projects

## Certifications

03/2016

Toyota Production System. Grupo Scopre, Leon

09/2013 - 11/2013

Data Sets with SQL. Instituto Politécnico Nacional (IPN), Mexico City

08/2013 - 09/2013

Statistical Analysis with SPSS. Instituto Politécnico Nacional (IPN), Mexico City

#### 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

### Conferences Given

03/2020

Inria Sequel Seminar, Lille

Some ideas for random forests with missing values 01/2020

TRIPODS workshop CIMAT-University of Arizona, Guanajuato

Some ideas for random forests algorithms with missing values

05/2019

Probability and Statistics Seminar CIMAT, Guanajuato Regression with missing data using random forests

# Languages

Spanish Native Portuguese Fluent English Fluent French Basic Russian Basic