



JUAN CARLOS CRUZ GONZÁLEZ

Curriculum vitae

CONTACT INFORMATION

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My website: <https://cruzjuan.com/>

SKILLS

Deep learning 1 year +

Maching learning 1 years +

Topological data analysis

Maching learning 1 years +

Mathematics:
Modern algebra,
algebraic topology,
probability and statistics,
etc.

LANGUAGES

Spanish Mother tongue

English Intermediate

EDUCATION

Degree in mathematics

Universidad Autónoma Metropolitana (UAM)

My thesis is about coloring of circulant graphs

July 2017

Master's degree in Sciences with Specialization in Basic Mathematics

Centro de Investigación en Matemáticas, A.C. (CIMAT)

My thesis is about the classifications of 2-stratifolds

August 2019

PhD in Sciences with Specialization in Basic Mathematics

Universidad Autónoma Metropolitana

My thesis is about the generalization of the category of quotient modules and is called Quotient Modules on Continuity Filters. It is the creation of a new line of research in abstract algebra

Febrero 2024

PROFESSIONAL COURSES

Machine Learning Foundations: A Case Study Approach

Coursera

2020

Neural Networks and Deep Learning

Coursera

2020

WORK EXPERIENCES

Technician in Electronic Security Systems

MaxTracker

2014 - 2015

Installation and programming assistant for CCTV and Access Control systems.

Part-time type "A" teacher

Department of Mathematics of the Universidad Autónoma Metropolitana

2016 - 2017

My job was to teach mathematics to university students.

Assistant teacher

Centro de Investigación en Matemáticas, A.C.

2018 - One semester

My job was to teach mathematics to master students.

Part-time type "B" teacher

Department of Mathematics of the Universidad Autónoma Metropolitana

2019 - 2021

My job was to teach mathematics to university students. Courses like Algebra and linear algebra

UTEL teacher (for fees)

UTEL México

July 2022 - present

My job is to give math classes to engineering students. Courses like Discrete Mathematics, Modern Algebra I

UnADM teacher (for fees)

Division of Exact Sciences, Engineering and Technology

July 2023 - present

My job is to give math classes to math students. Courses like Discrete Mathematics, Modern Algebra I

UAM curricular teacher

Department of Mathematics

July 2023 - present

I am a research professor in the area of non-commutative algebra and category theory.

SCHOLARSHIPS AND AWARDS

scholarship PRONABES

Math student

2013-2017

I obtained and kept this scholarship for being a regular student

UAM excellence scholarship

Math student

2016

I got this scholarship for having a GPA above 9.5 in my third year of college.

Scholarship 100% for Math summer school

Centro de Investigación en Matemáticas

2015

I got this scholarship for having a good academic record.

Scholarship 100% for XVI Math summer school

Centro de Ciencias Matemáticas

2016

I got this scholarship for having a good academic record.

100% Scholarship for the school of mathematical analysis 2016
Universidad de Colima

I got this scholarship for having a good academic record.

First place 2016
IV Espartaqueada Nacional de Matemáticas

I got first place

First place 2016
Concurso Nacional de Matemáticas Pierre Fermat

I got first place

CONACYT scholarship for maester's degree Aug. 2017- Aug. 2019
CONACYT

I had and kept this scholarship for my master's studies since I had a good academic average.

Conacyt scholarship for PhD Sep. 2019 - Sep. 2023
CONACYT

I still have this scholarship for my good performance as a doctoral student.

PROJECTS AND RESEARCH

QR implementation November 2022
first project

Implement the QR from scratch

Continuity filters and modules of quotients September 2023
First paper

It was submitted for review in January 2023 and it was accepted on September 06, 2023 for publication in Journal of Algebra and its Applications.