



Andrés Casillas García de Presno

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Born: 02/08/1999 (August 2nd, 1999) in Mexico City, Mexico.

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Education

since 08.2023

Bonn University, Bonn, Germany.

Mathematics -Master of Science (M.Sc.)

Major areas: Discrete mathematics, numerical analysis, probability theory.

Courses taken: Combinatorial Optimization, Scientific Computing, Programming Methods in Scientific Computing.

Current courses: Approximation Algorithms, Local Search Algorithms, Inverse Problems in Mathematical Biology, Boundary Element Methods, Seminar in Advanced Algorithms: Online Algorithms.

08.2019-06.2023

National Autonomous University of Mexico (UNAM), Mexico City, Mexico.

Mathematics -Bachelor of Science (B.Sc.) 9.93/10 (Mexican grading system).

Thesis: A number theoretical approach to cellular automata.

08.2003-06.2019

Modern American School, Mexico City, Mexico.

Kindergarten, Primary school, Middle school and High school.

8.55/10 (Mexican grading system).

Working Experience

Since September 2025

Fraunhofer Institute for Algorithms and Scientific Computing

- Student research assistant (Prof. Dr. Marc Alexander Schweitzer)

Summersemester 2022
& Wintersemester 2022

National Autonomous University of Mexico (UNAM), Mexico City, Mexico. / Assistant Professor

- Linear Algebra I (*Professor: Dr. Diana Avella Alaminos*)
- Higher Algebra I (*Professor: Dr. Diana Avella Alaminos*)
- Higher Algebra II (*Professor: Dr. Diana Avella Alaminos*)

Wintersemester 2020 &
Summersemester 2021

- Differential and Integral Calculus I (*Professor: Act. Javier Fernández García*)
- Differential and Integral Calculus II (*Professor: Act. Javier Fernández García*)

01.2018-06-2023

Self employed / Private teacher

Mathematics and physics

Honors and Grants

10.2024

Mexican Mathematical Society (SMM), Mexico City, Mexico / Sotero Prieto 2024 medal

The Sotero Prieto 2024 medal is awarded to the best bachelor's thesis in mathematics in the country.

07.2023

National Autonomous University of Mexico (UNAM), Mexico City, Mexico. / Diploma of Academic Excellence

The diploma of academic excellence is awarded to the student with the second highest average in each programme.

01.2021-07.2023

Instituto de Matemáticas (UNAM), Mexico City, Mexico. / Scholar

Academic excellence scholarships granted by the Institute of Mathematics are awarded to outstanding mathematics students.

01.2019-01.2022

TELMEX-Telcel Foundation scholarship

The TELMEX-Telcel Foundation financially supports outstanding students in a variety of technical areas.

Research and Publications

08.2022

5th Mexican Workshop on Fractional Calculus (5th MWFC),
Tecnológico de Monterrey, Monterrey, Mexico.

Invited speaker.

06.2021-03.2022

Research assistant at Engineering Institute (UNAM), Mexico City,
Mexico.

Advisor: Dr. Francisco Antonio Godínez Rojano.

Developed algorithms for fitting Mittag-Leffler functions to experimental data in order to build models which described thermodynamic properties of certain fluids, specifically water.

2022

Published work: de Presno, A. C.-G., & Godínez, F. A. (2022).
Construction of empirical models via a stepwise fitting of a fractional
Newtonian cooling law. In *Fractals*. World Scientific Pub Co Pte Ltd.

Programming Skills

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- Julia (Intermediate)
 - Python (Intermediate)
 - Fortran (Intermediate)
 - C++ (Intermediate)
 - Mathematica (Basic)
 - RStudio (Basic)
 - C (Basic)

Language Skills

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- Spanish (Native speaker)
 - English (C2)
 - French (A2)
 - German (A2)