

Date: October 24, 2020

# ANTONIO COÍN CASTRO

## PERSONAL DATA

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GITHUB: [github.com/antcc](https://github.com/antcc)

## EDUCATION

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2020-2022 MSC IN DATA SCIENCE  
*Current* **Universidad Autónoma de Madrid, SPAIN**

2015-2020 BACHELOR'S DEGREE IN COMPUTER SCIENCE  
**Universidad de Granada, SPAIN**  
AVERAGE GRADE: 9.26/10  
44% subjects with Honours

2015-2020 BACHELOR'S DEGREE IN MATHEMATICS  
**Universidad de Granada, SPAIN**  
AVERAGE GRADE: 9.10/10  
49% subjects with Honours

## PROJECTS AND COMMUNITIES

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BACHELOR'S THESIS (COMPUTER SCIENCE)	FUZZY SYSTEMS FOR BIG DATA COMPUTING (GRADE 9.9/10) DESIGN AND IMPLEMENTATION IN APACHE SPARK (~2K LINES OF CODE) OF A NUMBER OF SCALABLE FUZZY TECHNIQUES FOR SOLVING LEARNING AND MODELLING PROBLEMS IN A BIG DATA CONTEXT. A THEORETICAL STUDY ON FUZZY SET THEORY AND FUZZY REASONING IS ALSO CARRIED OUT.  <a href="https://github.com/antcc/tfg">github.com/antcc/tfg</a> <a href="https://github.com/antcc/fuzzyspark">github.com/antcc/fuzzyspark</a>
BACHELOR'S THESIS (MATHEMATICS)	IMPLICIT DIFFERENTIAL EQUATIONS (GRADE 9.9/10) THEORETICAL STUDY ON IMPLICIT DIFFERENTIAL EQUATIONS $F(x, y, y') = 0$ NOT SOLVED FOR $y'$ , PROVIDING GENERAL CONDITIONS FOR THEIR TREATMENT. IT COMPRISES A REVIEW OF THE USUAL EXISTENCE AND UNIQUENESS THEOREMS OF EXPLICIT ODES, BOTH ALGEBRAIC AND GEOMETRICAL APPROACHES TO IMPLICIT EQUATIONS AND SINGULAR SOLUTIONS, AND AN ANALYSIS OF SOME CLASSICAL EQUATIONS SUCH AS CLAIRAUT AND LAGRANGE EQUATIONS.  <a href="https://github.com/antcc/tfg">github.com/antcc/tfg</a>
OUTREACH	MEMBER AND COLLABORATOR OF LIBREIM HELPED WRITE AND CORRECT NOTES ON SEVERAL SUBJECTS TAUGHT AT THE UNIVERSITY OF GRANADA FOR LIBREIM, A NONPROFIT ORGANIZATION AIMED AT THE POPULARIZATION OF MATHEMATICS AND COMPUTER SCIENCE, ESPECIALLY FOCUSED ON FREE SOFTWARE AND KNOWLEDGE.  <a href="https://libreim.github.io">libreim.github.io</a>

## SCHOLARSHIPS AND CERTIFICATES

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2020 SPANISH MINISTRY OF EDUCATION - RESEARCH GRANT WITH THE DEPARTMENT OF MATHEMATICS OF THE AUTONOMOUS UNIVERSITY OF MADRID

2019 UNIVERSITY OF GRANADA - BEST ACADEMIC RECORD OF DEGREE PRIZE

2017 CAMBRIDGE - CERTIFICATE IN ADVANCED ENGLISH GRADE A (CEFR LEVEL C2)

2017 UNIVERSITY OF GRANADA - BEST ACADEMIC RECORD OF DEGREE PRIZE

2015 BEST UNIVERSITY ACCESS GRADE IN THE PROVINCE OF MÁLAGA (13.88/14)

LANGUAGES

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SPANISH: MOTHER TONGUE  
ENGLISH: FLUENT  
FRENCH: BASIC UNDERSTANDING

SKILLS

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ADVANCED KNOWLEDGE: C++, PYTHON, ~~LaTeX~~  
INTERMEDIATE KNOWLEDGE: C, JAVA, KERAS, R, SCALA, SPARK, LINUX, GIT  
BASIC KNOWLEDGE: HTML, CSS, JAVASCRIPT

INTERESTS

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TECHNOLOGY, PROGRAMMING, OPEN-SOURCE, SHARED KNOWLEDGE, APPLIED MATHEMATICS,  
MACHINE LEARNING, DEEP LEARNING, STATISTICAL TECHNIQUES, THEORETICAL FRAMEWORKS.