





Clàudia Rodés Bachs

Mathematician

Born in Barcelona, Spain

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 Barcelona, Spain
 30/03/1999

Main Interests: Climate change policies, air pollution, food consumption, ocean's level and pollution, water resources, plastic management, ecosystems evolution and global warming.

Education

Politecnico di Milano (PoliMi)

Milan, Italy

February 2022 - present

ERASMUS

Lectures on Energy and climate change modelling scenarios and Model identification and data analysis.

Master Thesis with Lara Aleluia Reis (RFF-CMCC EIEE) and Massimo Tavonni (RFF-CMCC EIEE, PoliMi) about uncertainty and sensitivity of air pollution health damages to different impact functions.

Universitat Politècnica de Catalunya (UPC)

Faculty of Mathematics and Statistics of UPC (FME)

Barcelona, Spain

September 2021 - present

MASTER'S DEGREE IN ADVANCED MATHEMATICS AND MATHEMATICAL ENGINEERING (MAMME)

Specialization in modelling with emphasis on ODEs, PDEs, and Numerical development of biological and physical models.

Erasmus in Politecnico di Milano (PoliMi).

Universitat Politècnica de Catalunya (UPC)

Faculty of Mathematics and Statistics of UPC (FME)

Barcelona, Spain

September 2017 - July 2021

BACHELOR'S DEGREE IN MATHEMATICS

Specialization in partial differential equations, dynamical systems, functional analysis, history of mathematics and financial mathematics.

Final Thesis with Albert Mas Blesa (UPC) about the Rayleigh-Faber-Krahn inequality and its applications (<https://upcommons.upc.edu/handle/2117/336297>, in English)

IPSI

Barcelona, Spain

September 2015 - May 2017

BACCALAUREATE WITH HONOURS

Specialization in sciences: Mathematics, Physics, Chemistry and Biology.

Ranked 1 of the class.

ABRSM

London, England, June 2016

GRADE 8 PIANO AND MUSIC THEORY

Red Cross

Barcelona, Spain, April 2021

FIRST AID LICENSE

Qualitas Alimentaria Proyecto

Málaga, Spain, February 2020

FOOD HANDLER LICENSE

CET10

Barcelona, Spain, December 2018

LEISURE AND FREE TIME INSTRUCTOR LICENSE

Experience

Universitat Politècnica de Catalunya (UPC)

Barcelona, Spain

September 2021- December 2021

TEACHER ASSISTANT

Correction of first-year students' work of the Bachelor's Degree in Mathematics. Teaching in solve-doubts sessions.

RheinFit Sportakademie GmbH & Reisemeise

Germany

July 2021 - August 2021

KIDS AND TEENAGERS' SPORTS INSTRUCTOR

Sport and language instructor in summer camps.

Wiris

Barcelona, Spain

July 2020 - June 2021

MATHEMATICAL SOFTWARE DEVELOPER

Software developer in an international technology business. Mainly collaborative development with different branches and repositories in a multidisciplinary team. As well as agile development in collaboration with the Support, Product and QA departments. Also bugs' resolution and new functionalities implementation in products managed by the team.

Programming with C++, Java, Javascript, Haxe, Omega, HTML, and CSS. Code revision and testing with GitHub, Bitbucket, and Jenkins. Kanbanize as a ticketing tool.

Club Elements

Catalonia, Spain

June 2019 - September 2020

KIDS AND TEENAGERS' INSTRUCTOR AND RESOURCE INSTRUCTOR

Instructor and resource instructor in sport summer camps.

Accessible sailing association
Mataró, Spain
June 2019 - September 2019

KIDS AND TEENAGERS' RESOURCE INSTRUCTOR
Resource instructor at sailing Mataró summer camp.

Nargy
Barcelona, Spain
September 2017 - March 2019

HOSTESS
Formal functions hostess in theatres, cinemas, and events.

Natkam
Girona, Spain
July 2018 - August 2018

KIDS AND TEENAGERS' MOUNTAIN INSTRUCTOR
Mountain summer camps instructor.

Private Piano Teacher
Barcelona, Spain
September 2017 - June 2018

KIDS AND TEENAGERS' PIANO TEACHER
Private piano teacher for beginners.

Private Teacher
Barcelona, Spain
September 2015 - present

KIDS, TEENAGERS, AND YOUTH ADULTS' PRIVATE TEACHER
Private teacher at Elementary, Secondary, and Baccalaureate levels of languages, humanities and sciences; and at University level of calculus, informatics and algebra courses.

Volunteering

University students against the pandemic
Online, Spain
March 2020 - June 2020

KIDS AND TEENAGERS' PRIVATE TEACHER
Private online teacher for kids and teenagers at risk of social exclusion.

Just Trade Center
Bury St Edmunds, England
July 2016 - August 2016

WAITRESS
Waitress in Bury St. Edmunds Tee salon.

Awards and stays in Research Centres

European Institute on Economics and Environment (EIEE)
Milan, Italy, 2022

MASTER STUDENT
Master thesis with Lara Aleluia Reis (RFF-CMCC EIEE) and Massimo Tavonni (RFF-CMCC EIEE and PoliMi) about air pollution modelling and sensitivity analysis.

Center of Agrigenomic Research of Catalonia (CRAG)
Barcelona, Spain, 2017

GUEST STUDENT
Rotational stay through the different labs and teams to get familiarized with the different projects and methodologies followed at the centre.

Catalonia Government
Barcelona, Spain, 2017

EXTRAORDINARY BACCALAUREATE AWARD
Award due to the excellent baccalaureate results.

Cangur.org
Barcelona, Spain, 2017

TOP 5% IN "PROVES CANGUR"
Top 5% of nearly 4000 in the mathematical competition called Proves Cangur, in Catalonia, Spain.

Cangur.org
Barcelona, Spain, 2015

TOP 3% IN "PROVES CANGUR"
Top 3% of more than 7500 participants respectively in the mathematical competition called Proves Cangur, in Catalonia, Spain.

Cangur.org
Barcelona, Spain, 2014

2ⁿ PLACE IN "COPA CANGUR"
Second place in the first edition of the Copa Cangur, a logic-mathematical competition by teams in Catalonia, Spain.

Skills and Interests

Languages

Catalan (native), Spanish (native), English (professional), German (high), Italian (intermediate).

Programming, software and usage

Matlab, R, Latex, C++, Python, GAMS, Java, JS, HTML, CSS, Omega, Haxe, AMPL, XPPaut, Maple, Jenkins, GitHub, Bitbucket, Kanbanize.

Other skills

Motivation, Empathy, Enthusiasm, Team working, Creativity.

Interests

Dingy sailing at professional level: former participation in European and World Championships.
Climbing and trekking in the mountains.
DIY and reading.