# Clàudia Rodés Bachs

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

## Experience

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| **Basque Center for Climate Change (BC3)**<br>Leioa, Spain<br>March 2023 – present | **Ph.D. STUDENT**<br>Main research field: integrated assessment models in the context of energy transition to a low-carbon economy, climate policy, air pollution, and socio-economical inequalities. |
| **RFF-CMCC European Institute on Economics and the Environment (EIEE)**<br>Milano, Italy<br>November 2022 – present | **AFFILIATED RESEARCHER AT RFF-CMCC EUROPEAN INSTITUTE ON ECONOMICS AND THE ENVIRONMENT (EIEE)**<br>Affiliated researcher to develop a project on uncertainty of *net*-zero climate policies on health impacts and economical damages. |
| **Wageningen University and Research (WUR)**<br>Wageningen, Netherlands<br>September 2022 – February 2023 | **JUNIOR RESEARCHER**<br>Junior researcher in Agrochains team at Wageningen Food Safety Research (WFSR). Focus on modelling on climate change, food security, and circularity. |
| **Universitat Politècnica de Catalunya (UPC)**<br>Barcelona, Spain<br>September 2021 – December 2021 | **TEACHER ASSISTANT**<br>Correction of first-year students' work of the Bachelor's Degree in Mathematics. Teaching in solve-doubts sessions. |
| **RheinFit Sportakademie GmbH & Reisemeise**<br>Germany<br>July 2021 - August 2021 | **KIDS AND TEENAGERS' SPORTS INSTRUCTOR**<br>Sport and language instructor in summer camps. |
| **Wiris**<br>Barcelona, Spain<br>July 2020 - June 2021 | **MATHEMATICAL SOFTWARE DEVELOPER**<br>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. |
| **Club Elements**<br>Catalonia, Spain<br>June 2019 - September 2020 | **KIDS AND TEENAGERS' INSTRUCTOR AND RESOURCE INSTRUCTOR**<br>Instructor and resource instructor in sport summer camps. |
| **Accessible sailing association**<br>Mataró, Spain<br>June 2019 - September 2019 | **KIDS AND TEENAGERS' RESOURCE INSTRUCTOR**<br>Resource instructor at sailing Mataró summer camp. |
| **Nargy**<br>Barcelona, Spain<br>September 2017 - March 2019 | **HOSTESS**<br>Formal functions hostess in theatres, cinemas, and events. |
| **Natkam**<br>Girona, Spain<br>July 2018 - August 2018 | **KIDS AND TEENAGERS' MOUNTAIN INSTRUCTOR**<br>Mountain summer camps instructor. |
| **Private Teacher**<br>Barcelona, Spain<br>September 2015 - June 2018 | **KIDS, TEENAGERS, AND YOUTH ADULTS' PRIVATE TEACHER FOR ACADEMICAL SUPPORT AND PIANO LESSONS**<br>Private teacher at Elementary, Secondary, and Baccalaureate levels of languages, humanities and sciences; and at University level of calculus, informatics and algebra courses. Private piano teacher for beginners. |

## Education

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| **Politecnico di Milano (PoliMi)**<br>Milan, Italy<br>February 2022 - June 2022 | **ERASMUS**<br>Lectures on Energy and climate change modelling scenarios and Model identification and data analysis.<br>Master Thesis with Lara Aleluia Reis (RFF-CMCC EIEE) about an uncertainty assessment of air pollution health co-benefits of net-zero climate policies. |
| **Universitat Politècnica de** | **MASTER'S DEGREE IN ADVANCED MATHEMATICS AND MATHEMATICAL** |

| Catalunya (UPC) | ENGINEERING (MAMME) |
|---|---|
| Faculty of Mathematics and Statistics of UPC (FME) | Specialization in modelling with emphasis on climate change models, ODEs, PDEs, and Numerical development of biological and physical models. |
| Barcelona, Spain | Erasmus in Politecnico di Milano (PoliMi). |
| September 2021 - July 2022 | |

| Universitat Politècnica de Catalunya (UPC) | BACHELOR'S DEGREE IN MATHEMATICS |
|---|---|
| Faculty of Mathematics and Statistics of UPC (FME) | Specialization in partial differential equations, dynamical systems, functional analysis, history of mathematics and financial mathematics. |
| Barcelona, Spain | Bachelor Thesis with Albert Mas Blesa (UPC) about the Rayleigh-Faber-Krahn inequality and its applications. |
| September 2017 - July 2021 | |

| IPSI | BACCALAUREATE WITH HONOURS |
|---|---|
| Barcelona, Spain | Specialization in sciences: Mathematics, Physics, Chemistry and Biology. |
| September 2015 - May 2017 | Ranked 1 of the class. |

| ABRSM | GRADE 8 PIANO AND MUSIC THEORY |
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| London, England, June 2016 | |

| Red Cross | FIRST AID LICENSE |
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| Barcelona, Spain, April 2021 | |

| Qualitas Alimentaria Proyecto | FOOD HANDLER LICENSE |
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| Málaga, Spain, February 2020 | |

| CET10 | LEISURE AND FREE TIME INSTRUCTOR LICENSE |
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| Barcelona, Spain, December 2018 | |

## Volunteering

| University students against the pandemic | KIDS AND TEENAGERS' PRIVATE TEACHER |
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| Online, Spain | Private online teacher for kids and teenagers at risk of social exclusion. |
| March 2020 - June 2020 | |

| Just Trade Center | WAITRESS |
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| Bury St Edmunds, England | Waitress in Bury St. Edmunds Tee salon. |
| July 2016 - August 2016 | |

## Awards and stays in Research Centres

| European Institute on Economics and Environment (EIEE) | MASTER STUDENT |
|---|---|
| Milan, Italy, 2022 | Master thesis with Lara Aleluia Reis (RFF-CMCC EIEE) about air pollution health co-benefits modelling and sensitivity analysis. |

| Center of Agrigenomic Research of Catalonia (CRAG) | GUEST STUDENT |
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| Barcelona, Spain, 2017 | Rotational stay through the different labs and teams to get familiarized with the different projects and methodologies followed at the centre. |

| Catalonia Government | EXTRAORDINARY BACCALAUREATE AWARD |
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| Barcelona, Spain, 2017 | Award due to the excellent baccalaureate results. |

| Cangur.org | TOP 3% and 5% IN "PROVES CANGUR" in 2015 and 2017 respectively |
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| Barcelona, Spain, 2015, 2017 | Top 3% of more than 7500, and 5% of nearly 4000 in the mathematical competition called Proves Cangur, in Catalonia, Spain in 2015 and 2017 respectively. |

| Cangur.org | 2nd PLACE IN "COPA CANGUR" |
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| Barcelona, Spain, 2014 | 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), Dutch (basic). |
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| Programming, software and usage | R, Python, C++, GAMS, bash & CDO, Matlab, Java, JS, HTML, CSS, Omega, Haxe, AMPL. |
| | Github, Latex, Linux and Windows environments, GIS raster & netCDF4 data. |
| | Maple, XPPaut, Jenkins, Bitbucket, Kanbanize. |
| Models | TM5-FASST, OSeMOSYS, DICE, DICENS, RICE, WITCH. |
| 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. Yoga. DIY and reading. |