# *Manuel Cañizares*

Avda. Mazarredo, 14. 48003 Bilbao, Spain.
mcanizares@bcamath.org ✻ Personal Site
*Place of birth:* Chiclana de la Frontera, Spain ✻ *Date of birth:* 03/02/1996
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## *Positions*

**BCAM (Basque Center for Appplied Mathematics)** *September 2020 - now*
*PhD Student* *Bilbao, Spain*

- Working under the supervision of Pedro Caro in the project *Interplays between Harmonic Analysis and Inverse Problems*, with a grant from the Spanish Research Agency (AEI), with reference *PRE2019-091776*

## *Education*

**PhD in Mathematics** *Currently pursuing, since 2020*
*Doctoral program in mathematics and statistics* *UPV/EHU*
*Expected defense date: October 2024*

**Master's degree in Mathematical Physics** *2020*
*Master's program FISyMAT* *Universidad de Granada*
*Final grade: 8.72/10 - 2.6/4*
*Master's thesis: Synchronization and Aggregation models. The swarmallators model.*
*Supervisor: Juan Soler*

**Bachelor's degree in Physics** *2018*
*Double bachelor's program in physics and mathematics* *Universidad de Sevilla*
*Final grade: 7.32/10 - 1.83/4*
*Bachelor's thesis: Width of Interfaces in the 2-Dimensional Ising Model.*
*Supervisor: Gernot Münster (written during my Erasmus stay at WWU Münster, Germany)*

**Bachelor degree in Mathematics** *2018*
*Double bachelor's program in physics and mathematics* *Universidad de Sevilla*
*Final grade: 7.86/10 - 2.05/4*

## *Publications*

**Local near-field scattering data enables unique reconstruction of rough electric potentials** *2024*
*Inverse Problems* ***40*** *065004* *DOI,arXiv*
Manuel Cañizares

**Interface Roughening in Two Dimensions** *2021*
*Journal of Statistical Physics,* ***182****, 61* *DOI,arXiv*
Gernot Münster & Manuel Cañizares

## *Talks*

**Indentifying electric potentials via the local near-field scattering pattern at fixed energy** *2024*
*IV Mathematical Analysis Days* *Universidad de La Rioja. Logroño, Spain*
*Invited talk*

**Indentifying electric potentials via the local near-field scattering pattern at fixed energy** *2024*
*Seminari d'Analisi de Barcelona* *UPC, UB and UAB. Barcelona, Spain*
*Seminar talk*

**Determination of delta-shell and critically-singular potentials with local near-field scattering data** *2023*
*HAPDEGMT* *UPV/EHU. Bilbao, Spain*
*Short talk*

**Determination of delta-shell and critically-singular potentials with local near-field scattering data** *2022*
*Inverse Days* *FIPS and University of Eastern Finland. Kuopio, Finland*
*Short talk*

## *Grants and Scholarships*

**Aid for pre-doc contracts for the training of doctors 2019** *2020-2024*
*AEI (Agencia Estatal de Investigación)* *Spain*
*Reference: PRE2019-091776*

**Erasmus+ Scholarship** *2017-2018*
*Stay at WWU Münster, Germany*

**Scholarship for Undergraduate studies** *2013-2020*
*Spanish Ministry of Education* *Spain*

## *Technical skills*

**Programming Languages/Tools** C, C++, Java, Python, LaTeX, Matlab, Haskell

## *Language proficiencies*

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|---|---|
| **Spanish** | Native |
| **English** | Fluent. CAE degree by Cambridge (C1) obtained in 2012 |
| **Italian** | Medium level |
| **French** | Basic level |

## *References*

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|---|---|
| **Pedro Caro. PhD supervisor** | pcaro@bcamath.org |
| **Ioannis Parissis. Collaborator** | ioannis.parissis@gmail.com |
| **Juan Soler. Master's thesis supervisor** | jsoler@ugr.es |
| **Gernot Münster. Bacherlor's thesis supervisor** | munsteg@uni-muenster.de |