

c v n CURRÍCULUM VITAE NORMALIZADO



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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

- Bachelor in Mathematics from the Autonomous University of Madrid with an average grade of 9.06 out of 10 and completed a Master's in Advanced Mathematics from the Autonomous University of Madrid with an average grade of 9.18 out of 10.
- Hired as part of a National Research Project in the Mathematics department at the Autonomous University of Madrid under the supervision of Luis Guijarro Santamaría.
- The expected date for the completion of my PhD is the first week of February 2024. I have already finished the manuscript and submitted it to the relevant department at the Autonomous University of Madrid to initiate the necessary bureaucratic procedures.
- Research interests: Applied Topology for Data Analysis (with applications to air traffic and social sciences). Optimal Transport. Also interested in Differential and Riemannian Geometry. Geometry of Metric Spaces with focus on invariants such as Urysohn width and Gromov's Filling Radius. Metric Geometry of Wasserstein-type spaces. Mathematical Sociology with an emphasis on data analysis techniques.
- A paper titled "Upper and lower bounds for the filling radius," available on arXiv:2206.08032, accepted for publication in the Indiana University Mathematics Journal (2022).
- Three preprints ("Topological Data Analysis (TDA) in ATM: The shape of big data flight sets," "The Rival Coffee Shop Problem," and "On the reach of the embedding of metric spaces into Wasserstein type spaces") are available on my arXiv profile and have been submitted to prestigious journals for review and subsequent publication.
- I have delivered 30 hours of teaching in Calculus I for the Computer Engineering program at the School of Computer Science (EPS) at the Autonomous University of Madrid during the academic years 2019/2020, 2020/2021, 2021/2022, and 2022/2023.
- Currently, I am also teaching Mathematics II in the preparation course for the EVAU (Spanish University Entrance Exam for students over 25) at the Autonomous University of Madrid since the academic year 2022/2023.



- I have attended numerous national and international conferences and had the opportunity to present my research in prestigious locations, such as the University of Washington in Seattle, Complutense University of Madrid, Oxford University, Durham University, and the University of Granada.
- Between March 15 and June 15, 2023, I conducted a research stay at the University of Durham in the United Kingdom under the supervision of Professor Fernando Galaz-García. Additionally, I was invited in May to visit the Mathematical Institute at Oxford University by Professor Heather Harrington.
- I am currently a part of the Research Project titled "Variational Analysis and Applied Geometry for Inverse Problems and Mechanics" (PID2021-124195NB-C32). I am also a member of the REAG (Spanish Network of Geometric Analysis) and the ICMAT (Institute of Mathematical Sciences), which holds a Severo Ochoa Excellence Program (CEX2019-000968-M).
- I have delivered a seminar on electoral systems during the Science Week, at Aula, and at Colegio Maravillas and also present a mathematical divulgation lecture at Reina Sofía Contemporary Art Museum in Madrid. Furthermore, I have two publications in the popular science magazine "TEMat."
- I possess an advanced level of programming skills in Python, particularly in software related to Topological Data Analysis (TDA) like Ripser, and expertise in text editing using LaTeX.

**Current professional situation**

Employing entity: Universidad Autónoma de Madrid **Type of entity:** University

Department: Matemáticas, Facultad de Ciencias

Professional category: Research Assistant

Start date: 01/04/2023

Type of contract: Permanent employment contract

Performed tasks: I won this contract in order to finish my PHD with my research group (PID2021-124195NB-C32). Advisor: Luis Guijarro

Employing entity: Universidad Autónoma de Madrid **Type of entity:** University

Department: Facultad de Ciencias

Professional category: FPI Contract

Start date: 01/07/2019

Type of contract: Grant-assisted student (pre or post-doctoral, others)

Performed tasks: FPI is a national grant/contract for the realization of the PHD with teaching duties. Advisor: Luis Guijarro

Employing entity: Universidad Autónoma de Madrid

Department: Facultad de Ciencias

Professional category: FPI-UAM Contract

Start date: 01/11/2018

Type of contract: Grant-assisted student (pre or post-doctoral, others) **Dedication regime:** Full time

Performed tasks: FPI-UAM is a contract/grant for the realization of the PHD with teaching duties. Advisor: Luis Guijarro



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

- 1 University degree:** Higher degree
Name of qualification: Masters Degree in Mathematics
City degree awarding entity: Madrid, Community of Madrid, Spain
Degree awarding entity: Universidad Autónoma de Madrid **Type of entity:** University
Date of qualification: 01/07/2018
Average mark: Excellent
- 2 University degree:** Higher degree
Name of qualification: Bachelor in Mathematics
City degree awarding entity: Madrid, Community of Madrid, Spain
Degree awarding entity: Universidad Autónoma de Madrid **Type of entity:** University
Date of qualification: 01/06/2017
Average mark: Excellent

Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare studies)

- 1 Type of training:** Summer School
Training title: Geometry beyond Riemann: Curvature and Rigidity
Awarding entity: ESI Mathematical Institute **Type of entity:** University Research Institute
End date: 22/09/2023
- 2 Type of training:** Conference
Training title: TDA week 2023
Awarding entity: University of Kyoto **Type of entity:** University
End date: 04/08/2023
- 3 Type of training:** Conference
Training title: Modern Techniques in Riemannian Geometry 2023
Awarding entity: Universidad Nacional Autónoma de México **Type of entity:** University
End date: 27/07/2023
- 4 Type of training:** Conference
Training title: GTDAML 2023
Awarding entity: Northeastern University **Type of entity:** University
End date: 11/06/2023



- 5** **Type of training:** Thematic day
Training title: Geometry Day - York
Awarding entity: University of York **Type of entity:** University
End date: 18/04/2023
- 6** **Type of training:** Conference
Training title: VI Conference of young researchers of the RSME
Awarding entity: REAL SOCIEDAD MATEMATICA ESPAÑOLA
End date: 10/02/2023
- 7** **Type of training:** Thematic Trimester
Training title: Geometry and Statistics in Data Science
City awarding entity: París,
Awarding entity: IHP **Type of entity:** University Research Institute
End date: 09/12/2022
- 8** **Type of training:** Workshop
Training title: Measure-theoretic Approaches and Optimal Transportation in Statistics
Awarding entity: IHP **Type of entity:** University Research Institute
End date: 25/11/2022
- 9** **Type of training:** Workshop
Training title: Geometry, Topology and Statistics in Data Sciences
City awarding entity: París,
Awarding entity: IHP **Type of entity:** University Research Institute
End date: 14/10/2022
- 10** **Type of training:** Workshop
Training title: Non-Linear and High Dimensional Inference
City awarding entity: París,
Awarding entity: IHP **Type of entity:** University Research Institute
End date: 07/10/2022
- 11** **Type of training:** Summer School
Training title: VSU CBMS Conference on Topological Data Analysis and Persistence Theory
Awarding entity: Valdosta State University **Type of entity:** University
End date: 12/08/2022
- 12** **Type of training:** Workshop
Training title: Computational Statistics with Python
Awarding entity: Universidad Carlos III de Madrid **Type of entity:** University
End date: 08/07/2022
- 13** **Type of training:** Summer School
Training title: PIMS-IFDS-NSF Summer School on Optimal Transport
Awarding entity: University of Washington
End date: 01/07/2022
- 14** **Type of training:** Workshop
Training title: Workshop on Manifolds with Symmetry
Awarding entity: University of Stuttgart **Type of entity:** University



End date: 30/03/2022

- 15** **Type of training:** Workshop
Training title: REAG Young Researchers Workshop
Awarding entity: Universidad de Granada **Type of entity:** University
End date: 19/11/2021
- 16** **Type of training:** Workshop
Training title: RCD spaces: Splitting theorems and applications
City awarding entity: México DF, Mexico
Awarding entity: UNAM **Type of entity:** University
End date: 11/11/2021
- 17** **Type of training:** Conference
Training title: Symmetry and Shape
City awarding entity: Santiago de Compostela, Galicia, Spain
Awarding entity: Universidad de Santiago de Compostela **Type of entity:** University
End date: 18/10/2021
- 18** **Type of training:** Workshop
Training title: On curvature and global shape
City awarding entity: Münster, Münster, Germany
Awarding entity: WWU Münster **Type of entity:** University
End date: 06/08/2021
- 19** **Type of training:** Workshop
Training title: Modern Techniques in Riemannian Geometry
City awarding entity: Durham, United Kingdom
Awarding entity: Durham University **Type of entity:** University
End date: 23/04/2021
- 20** **Type of training:** Conference
Training title: V Conference of young researchers of the RSME
City awarding entity: Castellón, Valencian Community, Spain
Awarding entity: Universidad Jaime I **Type of entity:** University
End date: 21/01/2020
- 21** **Type of training:** Conference
Training title: Symmetry and shape
City awarding entity: Santiago de Compostela, Galicia, Spain
Awarding entity: Universidad de Santiago de Compostela **Type of entity:** University
End date: 31/10/2019
- 22** **Type of training:** Workshop
Training title: On curvature an global shape
City awarding entity: Münster, Münster, Germany
Awarding entity: WWU Münster **Type of entity:** University
End date: 02/08/2019



- 23** **Type of training:** Course
Training title: Advanced Geometry Course in the UAM Mathematics Master's Degree18/19
City awarding entity: Madrid, Community of Madrid, Spain
Awarding entity: Universidad Autónoma de Madrid **Type of entity:** University
Training manager: Miguel Domínguez
End date: 06/2019 **Duration in hours:** 45 hours
- 24** **Type of training:** Conference
Training title: 2nd BYMAT
City awarding entity: Madrid, Community of Madrid, Spain
Awarding entity: INSTITUTO DE CIENCIAS MATEMATICAS **Type of entity:** State agency
End date: 24/05/2019
- 25** **Type of training:** Course
Training title: Workshop on Tools for Quantum Computing
City awarding entity: Madrid, Community of Madrid, Spain
Awarding entity: Universidad Autónoma de Madrid **Type of entity:** University
End date: 23/04/2019
- 26** **Type of training:** Summer School
Training title: JAE Summer School 2018
City awarding entity: Madrid, Community of Madrid, Spain
Awarding entity: INSTITUTO DE CIENCIAS MATEMATICAS **Type of entity:** State agency
Training manager: Luis Guijarro Santamaría
End date: 29/06/2018 **Duration in hours:** 30 hours
- 27** **Type of training:** Summer School
Training title: International School on Extrinsic Curvature Flows
City awarding entity: Trieste, Friuli-Venezia Giulia, Italy
Awarding entity: Instituto de Ciencia y Tecnología de Polímeros **Type of entity:** R&D Centre
End date: 15/06/2018 **Duration in hours:** 60 hours
- 28** **Type of training:** Course
Training title: Monotonicity formulae, Liouville Theorems, a priori estimates for singular/degenerate elliptic and parabolic equations
City awarding entity: Madrid, Community of Madrid, Spain
Awarding entity: Universidad Autónoma de Madrid **Type of entity:** University
Training manager: Silvia Terracini
End date: 16/03/2018 **Duration in hours:** 6 hours
- 29** **Type of training:** Course
Training title: Parabolic Equations with Rough coefficients and singular forcing
City awarding entity: Madrid, Community of Madrid, Spain
Awarding entity: Universidad Autónoma de Madrid **Type of entity:** University
Training manager: Felix Otto
End date: 07/02/2018 **Duration in hours:** 6 hours

**30** Type of training: Course**Training title:** Stable Solutions to some Elliptic Problems: minimal cones, the Allen-Cahn equation and blowing-up solutions**City awarding entity:** Madrid, Community of Madrid, Spain**Awarding entity:** Universidad Autónoma de Madrid **Type of entity:** University**Training manager:** Xavier Cabré**End date:** 25/01/2018**Duration in hours:** 6 hours**31** Type of training: Summer School**Training title:** JAE School 2017**City awarding entity:** Madrid, Community of Madrid, Spain**Awarding entity:** INSTITUTO DE CIENCIAS MATEMATICAS **Type of entity:** State agency**End date:** 07/07/2017**Duration in hours:** 30 hours**Attended advanced, improvement and innovative teacher training and new technology courses and seminars focused on improving teaching****1** Title of course/seminar: Intelligent Time Management for Teachers**Organising entity:** Universidad Autónoma de Madrid **Type of entity:** University**Duration in hours:** 8 hours**Start-End date:** 27/02/2023 - 02/03/2023**2** Title of course/seminar: Design and planning of a subject**Organising entity:** Universidad Autónoma de Madrid **Type of entity:** University**Faculty, institute or centre:** Psychology**Duration in hours:** 8 hours**Start-End date:** 08/11/2022 - 17/11/2022**3** Title of course/seminar: The Power of Feedback: Responding Effectively to Student Work**Organising entity:** Universidad Autónoma de Madrid **Type of entity:** University**Duration in hours:** 6 hours**Start-End date:** 08/03/2022 - 15/03/2022**Language skills**

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English	C1	C1	C1	C1	C1

Teaching experience



General teaching experience

- 1** **Name of the course:** Calculus I
University degree: Bachelor in Computer Engineering
Start date: 09/09/2022 **End date:** 01/02/2023
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 30
Entity: Universidad Autónoma de Madrid **Type of entity:** University
Faculty, institute or centre: EPS
- 2** **Type of teaching:** Official teaching
Name of the course: Calculus I
Type of teaching: Practical work (classroom-problems)
University degree: Bachelor in Computer Engineering
Start date: 07/09/2021 **End date:** 01/02/2022
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 30
Entity: Universidad Autónoma de Madrid **Type of entity:** University
Faculty, institute or centre: Escuela Politécnica Superior
City of entity: Madrid, Community of Madrid, Spain
- 3** **Type of teaching:** Official teaching
Name of the course: Calculus I
Type of teaching: Practical work (classroom-problems)
University degree: Bachelor in Computer Engineering
Start date: 07/09/2020 **End date:** 01/02/2021
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 30
Entity: Universidad Autónoma de Madrid **Type of entity:** University
Faculty, institute or centre: Escuela Politécnica Superior
City of entity: Madrid, Community of Madrid, Spain
- 4** **Type of teaching:** Official teaching
Name of the course: Calculus I
Type of teaching: Practical work (classroom-problems)
University degree: Bachelor in Computer Engineering
Start date: 07/09/2019 **End date:** 01/02/2020
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 30
Entity: Universidad Autónoma de Madrid **Type of entity:** University
Faculty, institute or centre: Escuela Politécnica Superior
City of entity: Madrid, Community of Madrid, Spain



Other activities/achievements not included above

- 1** **Description of the activity:** Preparation course for the University Access Exam for those over 25 - Mathematics II
Organising entity: Universidad Autónoma de Madrid **Type of entity:** University
End date: 05/03/2024
- 2** **Description of the activity:** Extraordinary University Access Exam Headquarters Secretary 2023
Organising entity: Universidad Autónoma de Madrid **Type of entity:** University
End date: 06/07/2023
- 3** **Description of the activity:** Preparation course for the University Access Exam for those over 25 - Mathematics II
Organising entity: Universidad Autónoma de Madrid **Type of entity:** University
End date: 07/03/2023
- 4** **Description of the activity:** Ordinary University Access Exam Headquarters Secretary 2022
Organising entity: Universidad Autónoma de Madrid **Type of entity:** University
End date: 14/06/2022
- 5** **Description of the activity:** Corrector for the University Access Exam for those over 25 in 2022
Organising entity: Universidad Autónoma de Madrid **Type of entity:** University
End date: 19/03/2022
- 6** **Description of the activity:** Corrector for the Ordinary University Access Exam in 2021
Organising entity: Universidad Autónoma de Madrid **Type of entity:** University
End date: 10/06/2021
- 7** **Description of the activity:** Corrector for the Ordinary University Access Exam in 2020
Organising entity: Universidad Autónoma de Madrid **Type of entity:** University
End date: 09/07/2020



Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** Análisis Variacional y Geometría Aplicada a Problemas Inversos y Mecánica
Entity where project took place: Universidad Autónoma de Madrid **Type of entity:** University
City of entity: Madrid, Community of Madrid, Spain
Name principal investigator (PI, Co-PI....): Faraco Hurtado Catedrático; Guijarro Santamaría Titular
Start-End date: 01/09/2022 - 31/08/2025
Total amount: 140.844 €
- 2** **Name of the project:** Cálculo de variaciones y geometría con aplicaciones a mecánica de medios continuos y problemas inversos
Entity where project took place: Universidad Autónoma de Madrid **Type of entity:** University
City of entity: Madrid, Community of Madrid, Spain
Name principal investigator (PI, Co-PI....): Guijarro Santamaría Titular de universidad; Faraco Hurtado Catedrático de universidad
Nº of researchers: 9
Funding entity or bodies: Ministerio de Ciencia e Innovación **Type of entity:** Público
Start-End date: 01/01/2018 - 30/09/2022
Total amount: 69.454 €



Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1 Mellado Mellado Cuerno. Convergence of manifolds with totally bounded curvature. TEMat monográficos, 2 (2021): Proceedings of the 3rd BYMAT Conference. 2, pp. 75 - 78. TEMat, 28/08/2021.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 2 Mellado Cuerno Primero. Puntos en figuras convexas: el caso del hexágono regular. TEMat, 2 (2018). 2, pp. 31 - 44. TEMat, 11/07/2018.
Type of production: Scientific paper **Format:** Journal
- 3 Javier Casado; Manuel Mellado Cuerno; Jaime Santos Rodríguez. On the reach of isometric embeddings into Wasserstein type spaces. arXiv,
Type of production: Scientific paper
- 4 Javier Casado; Manuel Mellado Cuerno. The Rival Coffee Shop Problem. arXiv,
Type of production: Scientific paper
- 5 Manuel Mellado Cuerno; Luis Guijarro; Rosa María Arnaldo Valdés; Fernando Gómez Comendador. Topological Data Analysis (TDA) on ATM: The shape of high data flight sets. arXiv,
Type of production: Scientific paper
- 6 Manuel Cuerno; Luis Guijarro. Upper and lower bounds on the filling radius. Indiana University Mathematics Journal. Indiana University, Available on-line at: <<https://arxiv.org/abs/2206.08032>>.
Type of production: Scientific paper **Format:** Journal

Works submitted to national or international conferences

- 1 **Title of the work:** Topological Data Analysis (TDA) on ATM
Name of the conference: TDA Week 2023
City of event: Kyoto, Japan
Date of event: 31/07/2023
End date: 06/10/2023
Organising entity: University of Kyoto **Type of entity:** University
- 2 **Title of the work:** Filling radius and the reach of isometrically embedded metric spaces
Name of the conference: Modern Techniques in Riemannian Geometry 2023
City of event: Ciudad de México, Mexico
Date of event: 24/07/2023
End date: 27/07/2023
Organising entity: Universidad Nacional Autónoma de México **Type of entity:** University



- 3** **Title of the work:** Topological Data Analysis (TDA) on Air Traffic Management
Name of the conference: GTDAML 2023
City of event: Boston, United States of America
Date of event: 08/06/2023
End date: 11/06/2023
Organising entity: Northeastern University **Type of entity:** University
- 4** **Title of the work:** Upper and Lower bounds on the filling radius
Name of the conference: VI Conference of young researchers of the RSME
City of event: León, Spain
Date of event: 08/02/2023
Organising entity: REAL SOCIEDAD MATEMATICA ESPAÑOLA
- 5** **Title of the work:** Bounds on the filling radius
Name of the conference: PIMS- IFDS- NSF Summer School on Optimal Transport
City of event: Seattle, United States of America
Date of event: 22/06/2022
Organising entity: PIMS **Type of entity:** University Research Institute
- 6** **Title of the work:** Convergence of manifolds with totally bounded curvature
Name of the conference: REAG Young Researchers Workshop 2021
City of event: Granada, Andalusia, Spain
Date of event: 18/11/2021
End date: 19/11/2021
Organising entity: REAG **Type of entity:** Associations and Groups
City organizing entity: Granada, Andalusia, Spain
- 7** **Title of the work:** Convergence of manifolds with totally bounded curvature
Name of the conference: 3rd BYMAT
City of event: Valencia, Valencian Community, Spain
Date of event: 01/12/2020
End date: 03/12/2020
Organising entity: Universitat de València **Type of entity:** University
City organizing entity: Valencia, Valencian Community, Spain
- 8** **Title of the work:** Convergence of manifolds with totally bounded curvature
Name of the conference: Workshop of Young Researchers in Mathematics (2020- 2021 academic year)
City of event: Madrid, Community of Madrid, Spain
Date of event: 21/09/2020
End date: 23/09/2020
Organising entity: Universidad Complutense de Madrid **Type of entity:** University
City organizing entity: Madrid, Community of Madrid, Spain
- 9** **Title of the work:** Points in convex figures
Name of the conference: 1st BYMAT
City of event: Madrid, Community of Madrid, Spain
Date of event: 07/05/2018
End date: 09/05/2019
Type of entity: State agency



Organising entity: INSTITUTO DE CIENCIAS
MATEMATICAS

City organizing entity: Madrid, Community of Madrid, Spain

Works submitted to national or international seminars, workshops and/or courses

- 1 Title of the work:** Filling radius and reach of isometrically embedded metric spaces
Name of the event: Geometry Seminar of the Math Department
City of event: Durham, United Kingdom
Date of event: 11/05/2023
Organising entity: Durham University **Type of entity:** University
- 2 Title of the work:** Upper and lower bounds on the filling radius
Name of the event: Algebraic Systems Biology Seminar at the Mathematical Institute
City of event: Oxford, United Kingdom
Date of event: 04/05/2023
Organising entity: Oxford University **Type of entity:** University
- 3 Title of the work:** Topological Data Analysis (TDA) and air traffic
Name of the event: Coloquio Junior
Date of event: 15/02/2023
Organising entity: INSTITUTO DE CIENCIAS MATEMATICAS **Type of entity:** State agency
- 4 Title of the work:** Convergence of manifolds: Collapse theory
Name of the event: Seminario Junio UAM-ICMAT
City of event: Madrid, Community of Madrid, Spain
Date of event: 24/10/2019
End date: 24/10/2019
Organising entity: Universidad Autónoma de Madrid **Type of entity:** University
City organizing entity: Madrid, Community of Madrid, Spain

Other dissemination activities

- 1 Title of the work:** Electoral Systems
City of event: Madrid, Community of Madrid, Spain
Date of event: 17/06/2022
Organising entity: Colegio Maravillas **Type of entity:** Colegio
- 2 Title of the work:** Electoral Systems
Name of the event: AULA 2022
City of event: Madrid, Community of Madrid, Spain
Date of event: 02/03/2022
Organising entity: IFEMA **Type of entity:** público
City organizing entity: Madrid, Community of Madrid, Spain
- 3 Title of the work:** Electoral Systems
Name of the event: Semana de la ciencia
Type of event: Taller



City of event: Madrid, Community of Madrid, Spain

Date of event: 29/11/2021

Organising entity: Universidad Autónoma de Madrid **Type of entity:** University

City organizing entity: Madrid, Community of Madrid, Spain

R&D management and participation in scientific committees

Organization of R&D activities

Title of the activity: Organizer of the Topological Data Analysis Seminar - UAM

Type of activity: Seminar

Convening entity: Universidad Autónoma de Madrid **Type of entity:** University

Start date: 05/10/2023

Other achievements

Stays in public or private R&D centres

- 1** **Entity:** University of Durham **Type of entity:** University
Faculty, institute or centre: Departamento de Matemáticas
City of entity: Durham, United Kingdom
Start-End date: 15/03/2023 - 15/06/2023 **Duration:** 3 months
Goals of the stay: Predoctoral
Provable tasks: Estancia predoctoral
- 2** **Entity:** Oxford University **Type of entity:** University
Faculty, institute or centre: Mathematical Institute
Start-End date: 03/05/2023 - 05/05/2023
Goals of the stay: Guest

Obtained grants and scholarships

- 1** **Name of the grant:** PRICIT of the Department of Mathematics of UAM to attend a Summer School on TDA in Valdosta, USA
Aims: Pre-doctoral
Awarding entity: Departamento de Matemáticas de la UAM **Type of entity:** University Department
Conferral date: 07/08/2022
End date: 13/08/2022
- 2** **Name of the grant:** PRICIT of the Department of Mathematics of UAM to attend a Summer School in Seattle
Aims: Pre-doctoral
Awarding entity: Departamento de Matemáticas de la UAM **Type of entity:** University Department
Conferral date: 19/06/2022
End date: 02/07/2022



- 3** **Name of the grant:** FPI UAM
Aims: Pre-doctoral
Awarding entity: Universidad Autónoma de Madrid **Type of entity:** University
Conferral date: 10/2018
End date: 30/06/2019
- 4** **Name of the grant:** Collaboration Grant of the Culture, Sports and Education Ministry
Aims: Research assistant
Awarding entity: Culture, Sports and Education Ministry **Type of entity:** Ministry
Conferral date: 01/09/2017
End date: 01/07/2018
Entity where activity was carried out: Universidad Autónoma de Madrid
- 5** **Name of the grant:** Grant for the realization of the Master's Degree in Mathematics given by the Department of Mathematics of UAM 2017/2018
Aims: Realization of the Master's Degree
Awarding entity: Universidad Autónoma de Madrid **Type of entity:** University
Conferral date: 01/09/2017
End date: 01/07/2018
Entity where activity was carried out: Universidad Autónoma de Madrid
- 6** **Name of the grant:** Severo Ochoa Grant Programm - Research Introduction
Aims: Research Introduction
Awarding entity: INSTITUTO DE CIENCIAS MATEMATICAS **Type of entity:** State agency
Conferral date: 26/06/2017
End date: 01/09/2017
Entity where activity was carried out: INSTITUTO DE CIENCIAS MATEMATICAS
- 7** **Name of the grant:** Kovalevskaya Grant to attend the ICM 2022 congress in Saint Petersburg
Aims: Pre-doctoral
Awarding entity: CEMAT **Type of entity:** Comité de ayuda internacional
Conferral date: 12/2021
- 8** **Name of the grant:** FPI Ministerio
Aims: Pre-doctoral
Awarding entity: Ministerio de Ciencia e Innovación **Type of entity:** Ministerio
Conferral date: 01/07/2019
- 9** **Name of the grant:** Excellence Grant of Comunidad de Madrid
Aims: University help
Awarding entity: Consejería de Educación **Type of entity:** Consejería
Conferral date: 30/01/2015 **Duration:** 1 year



Co-operation networks

- 1 Name of the network:** Spanish Network of Geometrical Analysis
Identification of the network: RED2018-102361-T
Participating entity/entities: Universidad Autónoma de Madrid; Universidad Jaime I; Universidad de Granada; Universidad de Murcia; Universidad de Santiago de Compostela; Universitat Autònoma de Barcelona; Universitat de València
Type of entity: University; University; University; University; University; University; University
Start date: 01/01/2020
Duration: 1 year - 4 months
- 2 Name of the network:** Spanish Network of Geometrical Analysis
Identification of the network: MTM2016-81938-REDT
Participating entity/entities: Universidad Autónoma de Madrid; Universidad Jaime I; Universidad de Granada; Universidad de Murcia; Universidad de Santiago de Compostela; Universitat Autònoma de Barcelona; Universitat de València
Type of entity: University; University; University; University; University; University; University
Start date: 01/07/2017
Duration: 2 years

Prizes, mentions and distinctions

Description: Extraordinary Highschool Education Award
Awarding entity: Comunidad de Madrid
Type of entity: Consejería de Educación
City awarding entity: Madrid, Community of Madrid, Spain
Conferral date: 13/09/2011

Summary of other achievements

- 1 Description of the achievement:** Occupational risk prevention course: "A/Effective Communication"
Accrediting entity: Universidad Autónoma de Madrid
Type of entity: University
Conferral date: 26/10/2022
- 2 Description of the achievement:** Member of the Severo Ochoa's ICMAT - CEX2019-000968-M
Accrediting entity: Ministerio de Ciencia e Innovación
Type of entity: ICMAT
Conferral date: 01/01/2020
- 3 Description of the achievement:** Member of the Department of Mathematics of UAM
Accrediting entity: Universidad Autónoma de Madrid
Type of entity: University