
EMPLOYMENT

- Feb 2022*
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Present **Position:** Substitute Teaching Tutor
Where: University of Málaga
Brief description:
Teaching differential and integral calculus, vector calculus, differential equations and probability to undergraduate students in the University of Málaga's bachelor's degree in Chemistry. See the program of the current courses [here](#) and [here](#).
- Sept 2021*
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Apr 2022 **Position:** Lead Data Scientist
Where: Student Success
Brief description:
Data science with data from Google Classroom. Analysis of engagement of students, STEM-HASS profile of students, prediction of califications...
- Feb 2021*
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Sept 2021 **Position:** Postdoctoral Visiting Fellow
Where: Basque Center for Applied Mathematics
Brief description:
Harmonic Analysis and Differential Equations: New Challenges. In this project we studied multifractality and intermittency properties of certain stochastic processes coming from physics. We needed ideas from Harmonic Analysis, Number Theory and Probability theory to study these topics
- Sept 2016*
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Dec 2020 **Position:** Predoctoral Researcher
Where: Basque Center for Applied Mathematics
Brief description:
During these years I studied different problems on Harmonic Analysis, from singular integral operators to Poincaré-Sobolev inequalities both in Euclidean and abstract metric spaces. This culminated in the development of a new method to get Poincaré-Sobolev inequalities in different settings. This is collected in my thesis dissertation

EDUCATION

- Sept 2016*
Dec 2020 **Degree:** PhD degree in Mathematics and Statistics
Where: Basque Center for Applied Mathematics
- Sept 2015*
Jul 2016 **Degree:** Master's degree in Mathematics and Statistics
Where: Universities of Almería, Cádiz, Granada, Jaén and Málaga
- Sept 2011*
Jul 2015 **Degree:** Bachelor's degree in Mathematics
Where: University of Málaga

RESEARCH

- Ritva Hurri-Syrjänen et al. *On the Weighted Inequality Between the Gagliardo and Sobolev Seminorms*. 2023
- Javier Martínez-Perales and Carlos Pérez. “Remarks on vector-valued Gagliardo and Poincaré-Sobolev type inequalities with weights”. In: *Potentials and Partial Differential Equations. The Legacy of David R. Adams* (2023)
- Ritva Hurri-Syrjänen et al. “On the BBM-phenomenon in fractional Poincaré-Sobolev inequalities with weights”. In: *International Mathematics Research Notices* (Sept. 2022). rnac246. issn: 1073-7928. doi: 10.1093/imrn/rnac246. url: <https://doi.org/10.1093/imrn/rnac246>
- Javier C. Martínez-Perales, Ezequiel Rela, and Israel P Rivera-Ríos. “Quantitative John–Nirenberg inequalities at different scales”. In: *Revista Matemática Complutense* (2022), pp. 1–35. issn: 1139-1138. doi: 10.1007/s13163-022-00427-0
- Dariusz Kosz et al. “Maximal operators on the infinite-dimensional torus”. In: *Mathematische Annalen* (2022), pp. 1–39
- Javier C Martínez-Perales. In: *Ann. Acad. Sci. Fenn. Math.* 46 (). arXiv: 1907.12435v1 [math.CA]
- Eugenia Cejas, Irene Drelichman, and Javier C Martínez-Perales. “Improved fractional Poincaré type inequalities on John domains”. In: *Ark. Mat.* 57.2 (Oct. 2019), pp. 285–316. arXiv: 1902.10578
- Natalia Accomazzo, Javier C. Martínez-Perales, and Israel P Rivera Ríos. “On Bloom type estimates for iterated commutators of fractional integrals”. In: *Indiana U. Math. J.* 69.4 (2020), pp. 1207–1230

DISSEMINATION

1. Natalia Accomazzo Scotti et al. “Four different approaches to the fractional Laplacian”. In: *TEMat: monográficos*, 1 (2020), pp. 47–60. [Link to the paper](#)
2. Javier C. Martínez-Perales. “La integral de Henstock-Kurzweil y el segundo teorema fundamental del cálculo”. In: *TEMat*, 1 (2017), pp. 15–23. [Link to the paper](#)

SKILLS

TECHNICAL SKILLS:

Proficient with:

Python, Git, \LaTeX , Adobe Photoshop, Adobe Illustrator, Angular, Typescript, Flask

Familiar with:

HTML, PHP, MySQL, Docker, PostgreSQL, CSS

SOFT SKILLS:

Strong:

Spanish (mother tongue), English (B2 level), Initiative, International Teamwork, Experience with public talks

Basic knowledge:

Italian, Euskera

ASSOCIATIONS

<i>2017</i>	RSME
<i>2018</i>	Charge: Chief editor in their weekly bulletin
<i>2016</i>	ANEM
<i>2019</i>	Charge: Editor in their bulletin

RESEARCH STAYS AND VISITS

<i>Sept 2019</i>	Universidad Nacional del Sur
—	Bahía Blanca, Argentina
<i>Sept 2019</i>	<i>Host(s):</i> Israel P. Rivera Ríos
<i>Aug 2019</i>	Universidad Buenos Aires
—	Buenos Aires, Argentina
<i>Oct 2019</i>	<i>Host(s):</i> Ezequiel Rela
<i>Nov 2017</i>	Universidad Buenos Aires and Universidad Nacional de La Plata
—	Buenos Aires, Argentina
<i>Oct 2017</i>	<i>Host(s):</i> Eugenia Cejas and Irene Drelichman

TALKS AND POSTERS

<i>Mar 2023</i>	Talk: Un problema de operadores maximales en el toro infinito-dimensional Where: <u>Seminario SARCTO-UMA</u> , Málaga, Spain
<i>Feb 2022</i>	Talk: Lectures on Poincaré inequalities Where: <u>BCAM-Severo Ochoa Course: Harmonic Analysis</u> , Bilbao, Spain
<i>Jan 2020</i>	Talk: Self-improving results for Poincaré-type inequalities Where: V Congreso de Jóvenes Investigadores de la RSME, Castellón, Spain <u>Book of abstracts</u>
<i>Dec 2019</i>	Talk: Self-improving properties of Poincaré-Sobolev type inequalities Where: <u>Analysis and PDE seminar, BCAM–UPV/EHU</u> , Bilbao, Spain
<i>Oct 2019</i>	Talk: Automejora en controles de oscilaciones medias de funciones Where: Universidad Málaga, Málaga, Spain
<i>Sept 2019</i>	Talk: Desigualdades de Poincaré-Sobolev mejoradas con pesos Where: Universidad Nacional del Sur, Bahía Blanca, Argentina
<i>Sept 2019</i>	Talk: Desigualdades de Poincaré-Sobolev mejoradas con pesos Where: Universidad de Buenos Aires, Buenos Aires, Argentina
<i>Sept 2019</i>	Talk: Desigualdades de Poincaré-Sobolev mejoradas con pesos Where: Segundo Encuentro Conjunto de la UMA y la SOMACHI, Mendoza, Argentina

Abstract

- May 2019** **Talk:** On fractional Poincaré inequalities
Where: II BYMAT Conference, Madrid, Spain
- Feb 2019** **Talk:** On fractional Poincaré inequalities
Where: Universidad de Cantabria, Cantabria, Spain
List of posters
- May 2018** **Talk:** On fractional Poincaré inequalities
Where: Summer school "Nonlocal Interactions in Partial Differential Equations and Geometry" at Institut Mittag-Leffler, Djursholm, Sweden
Webpage of the school
- May 2018** **Talk:** Sobolev-Poincaré inequalities for $p < 1$
Where: I BYMAT Conference, Madrid, Spain
- Dec 2017** **Talk:** Algunas extensiones de la desigualdad de Poincaré
Where: I Encuentro Conjunto RSME-UMA, Buenos Aires, Argentina
Abstract
- Nov 2016** **Talk:** Sobolev integrability of solutions of the Beltrami equation
Where: Basque Center for Applied Mathematics, Bilbao, Spain
Abstract

CERTIFIED LINGUISTIC SKILLS

Spanish: *Mother tongue*

English: *Medium, CertAcles Certificate level B1*

Euskera: *Basic level, A1*

OTHERS

2022 **Frontend and backend developer of an entire own web application called Appasarlista**

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Present (To be published)

2022 **Certified as *Profesor Ayudante Doctor* by the ANECA**

2016 **Editor and reviewer in the dissemination journal TEMat**

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2022 Webpage of the journal

2018 **Co-organiser of the LIGHT seminar at BCAM**

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2020 Webpage of the seminar