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## EMPLOYMENT

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- Feb 2022*  
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*Present*     **Position:** Substitute Teaching Tutor  
**Where:** University of Málaga  
**Brief description:**  
Teaching basic and multidimensional calculus, vector calculus, probability and differential equations to undergraduate students in the University of Malaga's bachelor's degree in Chemistry
- 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 intermmitency 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*  
—  
*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

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## EDUCATION

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- 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

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## RESEARCH

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- Ritva Hurri-Syrjänen et al. “On the BBM-phenomenon in fractional Poincare-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. “A note on generalized Poincaré-type inequalities with applications to weighted improved Poincaré-type inequalities”. In: *Ann. Acad. Sci. Fenn. Math.*, 46 (2021). 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

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## DISSEMINATION

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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](#)

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## SKILLS

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### TECHNICAL SKILLS:

#### Proficient with:

Python, Git,  $\text{\LaTeX}$ , Adobe Photoshop, Angular, Flask

#### Familiar with:

HTML, PHP, SQL, Adobe Illustrator, Docker

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### SOFT SKILLS:

#### Strong:

Spanish (mother tongue), English (B2 level), Initiative, International Teamwork, Public talks

#### Basic knowledge:

Italian, Euskera

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## ASSOCIATIONS

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

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## RESEARCH STAYS AND VISITS

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

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## TALKS AND POSTERS

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<i>Jan 2020</i>	<b>Talk:</b> Self-improving results for Poincaré-type inequalities <b>Where:</b> V Congreso de Jóvenes Investigadores de la RSME, Castellón, Spain <u>Book of abstracts</u>
<i>Dec 2019</i>	<b>Talk:</b> Self-improving properties of Poincaré-Sobolev type inequalities <b>Where:</b> <u>Analysis and PDE seminar, BCAM–UPV/EHU</u> , Bilbao, Spain
<i>Oct 2019</i>	<b>Talk:</b> Automejora en controles de oscilaciones medias de funciones <b>Where:</b> Universidad Málaga, Málaga, Spain
<i>Sept 2019</i>	<b>Talk:</b> Desigualdades de Poincaré-Sobolev mejoradas con pesos <b>Where:</b> Universidad Nacional del Sur, Bahía Blanca, Argentina
<i>Sept 2019</i>	<b>Talk:</b> Desigualdades de Poincaré-Sobolev mejoradas con pesos <b>Where:</b> Universidad de Buenos Aires, Buenos Aires, Argentina
<i>Sept 2019</i>	<b>Talk:</b> Desigualdades de Poincaré-Sobolev mejoradas con pesos <b>Where:</b> Segundo Encuentro Conjunto de la UMA y la SOMACHI, Mendoza, Argentina <u>Abstract</u>
<i>May 2019</i>	<b>Talk:</b> On fractional Poincaré inequalities <b>Where:</b> II BYMAT Conference, Madrid, Spain
<i>Feb 2019</i>	<b>Talk:</b> 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

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### CERTIFIED LINGUISTIC SKILLS

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**Spanish:** *Mother tongue*

**English:** *Medium, CertAcles Certificate level B1*

**Euskera:** *Basic level, A1*

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### OTHERS

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- 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