

Curriculum Vitae
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<https://ckdvk.github.io/cv.github.io/>

EMPLOYMENT

- Jun 2025** **Position:** Project Manager Researcher
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Present **Where:** Cetaqua - Water Technology Center
Brief description:
Project management and research in the context of technology related to the integral water cycle.
- Aug 2024** **Position:** Lecturer in Mathematics
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Oct 2024 **Where:** Guangdong Technion Israel Institute of Technology
Brief description:
I am in charge of the lectures of the Preparatory course in Mathematics of the MCS program of GTIIT, while coordinating and preparing the future lecture notes for the course in the form of a book. Also, I am teaching as a lecturer in the Ordinary Differential Equations course of GTIIT.
- Oct 2023** **Position:** Substitute Teaching Tutor
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Feb 2024 **Where:** University of Málaga
Brief description:
Teaching discrete mathematics and linear algebra to undergraduate students in the University of Málaga's bachelor's degrees in Computer Science and Health Engineering, respectively. See the program of the courses [here](#) and [here](#), respectively.
- Jul 2023** **Position:** Lecturer in Mathematics
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Oct 2023 **Where:** Guangdong Technion Israel Institute of Technology
Brief description:
I am in charge of the tutorial lectures of the intensive summer semester for two courses on Differential and Integral Calculus and also for the Prep course for the Mathematics and Computer Science program of the GTIIT.
- Feb 2022** **Position:** Substitute Teaching Tutor
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Jul 2023 **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** **Position:** Data Scientist
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Apr 2022 **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** **Position:** Postdoctoral Visiting Fellow
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Sept 2021 **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** **Position:** Predoctoral Researcher
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Dec 2020 **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

Nov 2023 **Degree:** Student

Sept 2024 **Where:** 42 School Málaga

Sept 2016 **Degree:** PhD degree in Mathematics and Statistics

Dec 2020 **Where:** Basque Center for Applied Mathematics

Sept 2015 **Degree:** Master's degree in Mathematics and Statistics

Jul 2016 **Where:** Universities of Almería, Cádiz, Granada, Jaén and Málaga

Sept 2011 **Degree:** Bachelor's degree in Mathematics

Jul 2015 **Where:** University of Málaga

RESEARCH

- Ritva Hurri-Syrjänen et al. "On the Weighted Inequality Between the Gagliardo and Sobolev Seminorms". In: *Preprint* (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 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

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:**C, Python, Git, L^AT_EX, Adobe Photoshop, Adobe Illustrator, JavaScript, Vue, PowerBI, Python Reflex**Familiar with:**

Bash, WordPress, HTML, PHP, MySQL, Docker, PostgreSQL, CSS, Angular, Typescript, Flask, REST

SOFT SKILLS:**Strong:**

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

Basic knowledge:

Italian, Euskera

ASSOCIATIONS

2017 RSME**2018 Charge:** Chief editor in their weekly bulletin**2016 ANEM****2019 Charge:** Editor in their bulletin

RESEARCH STAYS AND VISITS

Sept 2019 Universidad Nacional del Sur

— Bahía Blanca, Argentina

Sept 2019 Host(s): Israel P. Rivera Ríos**Aug 2019 Universidad Buenos Aires**

— Buenos Aires, Argentina

Oct 2019 Host(s): Ezequiel Rela**Nov 2017 Universidad Buenos Aires and Universidad Nacional de La Plata**

— Buenos Aires, Argentina

Oct 2017 Host(s): Eugenia Cejas and Irene Drelichman

TALKS AND POSTERS

Mar 2023 Talk: Un problema de operadores maximales en el toro infinito-dimensional
Where: Seminario SARCTO-UMA, Málaga, Spain**Feb 2022 Talk:** Lectures on Poincaré inequalities
Where: BCAM-Severo Ochoa Course: Harmonic Analysis, Bilbao, Spain**Jan 2020 Talk:** Self-improving results for Poincaré-type inequalities
Where: V Congreso de Jóvenes Investigadores de la RSME, Castellón, Spain

Book of abstracts

- Dec 2019** **Talk:** Self-improving properties of Poincaré-Sobolev type inequalities
Where: Analysis and PDE seminar, BCAM–UPV/EHU, Bilbao, Spain
- Oct 2019** **Talk:** Automejora en controles de oscilaciones medias de funciones
Where: Universidad Málaga, Málaga, Spain
- Sept 2019** **Talk:** Desigualdades de Poincaré-Sobolev mejoradas con pesos
Where: Universidad Nacional del Sur, Bahía Blanca, Argentina
- Sept 2019** **Talk:** Desigualdades de Poincaré-Sobolev mejoradas con pesos
Where: Universidad de Buenos Aires, Buenos Aires, Argentina
- Sept 2019** **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 Mittaf-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
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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