Curriculum Vitae

Javier Martínez Perales

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https://ckdvk.github.io/cv.github.io/

Employment

Oct 2023	**Position:** Substitute Teaching Tutor
—	**Where:** University of Málaga
Feb 2024	**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
—	**Where:** Guangdong Technion Israel Institute of Technology
Oct 2023	**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
—	**Where:** University of Málaga
Jul 2023	**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:** Lead Data Scientist
—	**Where:** Student Success
Apr 2022	**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
—	**Where:** Basque Center for Applied Mathematics
Sept 2021	**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
—	**Where:** Basque Center for Applied Mathematics
Dec 2020	**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 *Present*	**Degree:** Fulltime Student **Where:** 42 School Málaga
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

- **hurri2023**

- **martinez2023**

- **hurri2022bbm**

- **martinez2020quantitative**

- **kosz2022maximal**

- **Martinez2020**

- **Cejas2019**

- **Accomazzo2017**

Dissemination

1. **TEMAT**. Link to the paper

2. **TEMAT2**. Link to the paper

Skills

Technical skills:
Proficient with:
C, Python, Git, LaTeX, Adobe Photoshop, Adobe Illustrator, Angular, Typescript, Flask
Familiar with:
Bash, WordPress, 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

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

Research stays and visits

Sept 2019 — *Sept 2019*	**Universidad Nacional del Sur** Bahía Blanca, Argentina *Host(s):* Israel P. Rivera Ríos
Aug 2019 — *Oct 2019*	**Universidad Buenos Aires** Buenos Aires, Argentina *Host(s):* Ezequiel Rela
Nov 2017 — *Oct 2017*	**Universidad Buenos Aires and Universidad Nacional de La Plata** Buenos Aires, Argentina *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 — Present	**Frontend and backend developer of an entire own web application called Appasarlista** (To be published)
2022 —	**Certified as** *Profesor Ayudante Doctor* **by the ANECA**
2016 — 2022	**Editor and reviewer in the dissemination journal TEMat** Webpage of the journal
2018 — 2020	**Co-organiser of the LIGHT seminar at BCAM** Webpage of the seminar