

EMPLOYMENT: {

"SUBSTITUTE TEACHING TUTOR at University of Málaga, from Feb 2022 to Present. Teaching basic and multidimensional calculus, vector calculus, probability and differential equations to undergraduate students in the University of Málaga's bachelor's degree in Chemistry",

"LEAD DATA SCIENTIST at Student Success, from Sept 2021 to Apr 2022. Data science with data from Google Classroom. Analysis of engagement of students, STEM-HASS profile of students, prediction of califications...",

"POSTDOCTORAL VISITING FELLOW at Basque Center for Applied Mathematics, from Feb 2021 to Sept 2021. Harmonic Analysis and Differential Equations: New Challenges. In this project we studied multifractality and intermmittency properties of certain stochastic processes coming from physics. We needed ideas from Harmonic Analysis, Number Theory and Probability theory to study these topics",

"PREDOCTORAL RESEARCHER at Basque Center for Applied Mathematics, from Sept 2016 to Dec 2020. 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"

SKILLS = [

"TECHNICAL SKILLS

Proficient with:

Python • Git • \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 "

EDUCATION: {

"PhD degree in Mathematics and Statistics at Basque Center for Applied Mathematics, from Sept 2016 to Dec 2020.",

"Master's degree in Mathematics and Statistics at Universities of Almería, Cádiz, Granada, Jaén and Málaga, from Sept 2015 to Jul 2016.",

"Bachelor's degree in Mathematics at University of Málaga, from Sept 2011 to Jul 2015."}

RESEARCH = [

- 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. "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

ABOUT ME = [

INTERESTS:

Technology • Programming • Mathematics

ASSOCIATIONS:

RSME • ANEM