
DAMIÃO J. ARAÚJO'S CV

RESEARCH INTERESTS

Analysis of PDEs, Calculus of Variations, Free boundary problems, Geometric Analysis

EXPERIENCE

ASSOCIATE PROFESSOR, UNIVERSIDADE FEDERAL DA PARAÍBA | 2017-PRESENT
João Pessoa, Paraíba - Brazil

POST-DOC, UNIVERSITY OF FLORIDA | 2015-2016

Gainesville, Florida - USA | Supervisor: [Lei Zhang](#)

POST-DOC, UNIVERSIDADE FEDERAL DO CEARÁ | 2013-2014

Fortaleza, Ceará - Brazil | Supervisor: [Eduardo Teixeira](#)

EDUCATION

UNIVERSIDADE FEDERAL DO CEARÁ - PH.D. IN MATHEMATICS | 2012

Fortaleza, Ceará - Brazil | Advisor: [Eduardo Teixeira](#)

UNIVERSIDADE FEDERAL DE CAMPINA GRANDE - M.S. IN MATHEMATICS | 2008

Campina Grande, Paraíba - Brazil

UNIVERSIDADE REGIONAL DO CARIRI, BRAZIL - B.S. IN MATHEMATICS | 2005

Juazeiro do Norte, Ceará - Brazil

GRANTS

2017-2025 | CNPq Researcher grant, level 2

2023-2025 | CNPq Universal grant, level B

2017-2019 | CNPq Universal grant, level A

AWARDS

2023 | Prêmio SBM

2019 - 2024 | Abdus Salam International Centre for Theoretical Physics, Jr. Associate

2013 | Prêmio Carlos Gutierrez (best Ph.D. thesis in Mathematics), honorable mention

CHAIRING SCIENTIFIC EVENTS

- 2024 | Congresso Latinoamericano y del Caribe de Matemática (UMALCA), Brazil
- 2024 | Conference on Free Boundary Problems: Theory and Application, Brazil
- 2022 | IV Brazilian Young Mathematicians Congress, João Pessoa, Brazil
- 2019 | VII Workshop in Nonlinear PDEs and Geometric Analysis, João Pessoa, Brazil

SELECT ADMINISTRATIVE SERVICES

- 2023 - 2025 | Secretary of the Brazilian Mathematical Society (Northeast region)
- 2021-2024 | Postgraduate Program - Universidade Federal da Paraíba, Head director

SELECT INVITED TALKS

- 2023 | Prêmio SBM, Sociedade Brasileira de Matemática, IMPA, Rio de Janeiro, Brazil
- 2022 | Seminar of PDEs and Applied Mathematics at UFF and University of Sevilla
- 2019 | Conference Amazon-Andalusia on PDE's, Belém, Brazil
- 2018 | Advances in Applied Mathematics: 10 years of CoLab, University of Texas, USA
- 2015 | International Conference on Current Trends in Analysis and PDEs, IMPA
- 2013 | Prêmio Carlos Gutierrez, São Carlos, São Paulo - Brazil

SELECT MENTORING ACTIVITIES

- 2024 | Aelson Sobral, Ph.D., Upcoming position: Post-Doctorate Fellow at KAUST, SA
- 2023 | Ginaldo Sá, Ph.D., Current position: Post-Doctorate Fellow at UCF, USA
- 2020 | H. Shrivastava, Post-Doc, Current position: Researcher at GITAM University, India

SELECT PUBLICATIONS

- 2023 | [Book] The ∞ -Laplacian: from AMLEs to Machine Learning.
(with J.M. Urbano) 34 Brazilian Mathematics Colloquium, IMPA.
- 2023 | [Article] Sharp regularity for singular obstacle problems.
(with R. Teymurazyan and V. Voskanyan) Math. Ann. 387, 1367-1401.
- 2022 | [Article] Infinity Laplacian equations with singular absorptions.
(with Ginaldo Sá) Calc. Var. 61, 132 (2022).
- 2017 | [Article] A proof of the C^{p^1} -regularity conjecture in the plane.
(with E. Teixeira and J.M. Urbano) Adv. Math. 316, 541-553.
- 2013 | [Article] Geometric approach nonvariational singular elliptic equations.
(with E. Teixeira) Arc. for Rat. Mech. and Anal., Vol.209, Issue 3, 1019-1054.