

Daniela Paiva Peñuela

Curriculum Vitae

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Colombian Citizenship

Education

- 2021–present **Instituto de Matemática Pura e Aplicada -IMPA**, Rio de Janeiro, Brazil.
Ph.D. candidate in Mathematics
Advisor: Prof. Carolina Araujo
- 2019–2021 **Instituto de Matemática Pura e Aplicada -IMPA**, Rio de Janeiro, Brazil.
M.Sc. in Mathematics
- 2014–2018 **Universidad del Tolima**, Ibagué, Colombia.
B.Sc. in Mathematics (Graduated with Honors)

Articles

- 2024 **On Gizatullin's problem for quartics of Picard rank 2**, Joint Carolina Araujo and Sokratis Zikas, In preparation.
- 2023 **Automorphisms of quartic surfaces and Cremona transformations**, Joint Ana Quedo, arXiv:2302.09014, Preprint.

Talks

- 03/2024 **Liberdade em Geometria Algébrica - LEGAL**, Universidade Federal Fluminense - UFF, Teresópolis, Brazil.
Gizatullin's Problem and the Sarkisov Program
- 12/2023 **8th Iberoamerican Congress on Geometry**, Geometry at the Frontier Research Center, Pucón, Chile.
Automorphisms of quartic surfaces with Picard number two and Cremona transformations
- 07/2023 **Universidad de Antioquia - UdeA**, Seminario de Álgebra, Geometría y Topología, Medellín, Colombia.
Superficies K3 y Teoría de Reticulados
- 07/2023 **Universidad del Tolima - UT**, Seminario de Álgebra, Ibagué, Colombia.
Introducción a la Geometría Algebraica y Superficies K3
- 02/2023 **Around Symmetries of K3 Surfaces**, Banff International Research Station for Mathematical Innovation and Discovery - BIRS, Banff, Canada.
Automorphisms of quartic surfaces and Cremona transformations
- 02/2023 **15th Commutative Algebra and Algebraic Geometry, ALGA**, IMPA, Rio de Janeiro, Brazil.
Automorphisms of quartic surfaces and Cremona transformations
- 12/2022 **Workshop Geometry at the Frontier III 1/2**, Geometry at the Frontier Research Center, Pucón, Chile.
A new example for Gizatullin's problem
- 11/2021 **Instituto de Matemática Pura e Aplicada - IMPA**, Student Algebraic Geometry Seminar (online).
The Cremona group

10/2021 **Universidad del Tolima(Colombia)**, *Faculty Week Celebration - Science Faculty (online).*
On the Cremona group

Grants

2021-2025 **Ph.D. fellowship**, *CAPES (Coordenação de Aperfeiçoamento de Pessoal de Nível Superior).*
2019-2021 **Master degree fellowship**, *CNPq (Conselho Nacional de Desenvolvimento Científico e Tecnológico).*

Organization of seminars and conferences

2022-present *Coloquio dos Alunos*. IMPA, Rio de Janeiro, Brazil.
2023 *3º Encontro de Mulheres Matemáticas do IMPA - EMMI*. IMPA, Rio de Janeiro, Brazil.
2022 *2º Encontro de Mulheres Matemáticas do IMPA - EMMI*. IMPA, Rio de Janeiro, Brazil.
2021 *1º Encontro de Mulheres Matemáticas do IMPA - EMMI*. IMPA (Online).

Selected Participation in Conferences

2022 *School of the Doctoral Program in Mathematics of the UdeC*. Universidad de Concepción. Concepción, Chile (Online).
2022 *AGRA IV (Arithmetic, Groups and Analysis) - Part 2*. Cabo Frio, Brazil.
2022 *Latin American and Caribbean Workshop on Mathematics and Gender*. Casa Matematica Oaxaca, Mexico.(Online).
2021 *XXXIII Brazilian Colloquium of Mathematics*. IMPA. Rio de Janeiro, Brazil.(Online)
2019 *1st Joint Meeting Brazil-France in Mathematics*. IMPA. Rio de Janeiro, Brazil.
2019 *XXXII Brazilian Colloquium of Mathematics*. IMPA. Rio de Janeiro, Brazil.
2019 *Brazilian Meeting of Women Mathematicians*. IMPA. Rio de Janeiro, Brazil.
2018 *IV Regional Seminar on Number Theory*. On untouchable numbers and their properties. Universidad del Cauca. Popayán, Colombia.

Teaching Experience

2018 Teaching Assistant of Prof. Carolina Perdomo, *Fundamental Mathematics*. Universidad del Tolima.
2016-2017 Teaching Assistant of Prof. Leonardo Duvan Restrepo, *Univariate Calculus*. Universidad del Tolima.

Languages

Spanish Native
Portuguese Fluent
English Upper-Intermediate

Interests

Mathematical Algebraic and Birational Geometry: Cremona group, Sarkisov program, K3 surfaces.
Other Social work, volleyball, mountain biking.