Kevin Alves Vasconcellos

Curriculum Vitae

Personal details and contact

• Nationality: Brazilian

• Birth date: January 11, 1995

• Email: kevin.vasconcellos@im.ufrj.br

• Lattes curriculum: http://lattes.cnpq.br/7694301808539887

• Homepage: http://www.im.ufrj.br/alunos/kevinvasconcellos

Research interests

• Commutative Algebra: Residual Intersection Theory and Koszul-Fitting Ideals

Education

Philosophy Doctor in Mathematics, Federal University of Rio de Janeiro
 Director: S. Hamid Hassanzadeh
 Thesis: Deformation of Residual Intersections

 Master of Science in Mathematics, Federal University of Rio de Janeiro
 Director: S. Hamid Hassanzadeh
 Dissertation: Uma Fórmula para Core de um Ideal

 Bachelor of Sciences in Engineering, State University of Northern Fluminense
 Director: José Nilson França de Holanda
 GPA: 3.6

 Associate Degree in Chemistry, Fluminense Federal Institute
 2011 — 2012
 GPA: 3.7

Publications

Published

- Data Assimilation in A Class of Environmental Disasters: Mathematical Aspects.

 Open acess

 Published in Earth Science Research, with P. S. D Da Silva.
- Evaluation of the Densification Behavior of Clay Brick Body Bearing Coffee Grounds Waste.

 Chapter of the book **The Fundamentals of Brick Manufacturing**, Nova Science Publishers with J.

 N. F. Holanda and others.

Preprints

Deformation of Residual Intersections
 Available in arXiv, with H. Hassanzadeh

arXiv:2405.12170

 $\bullet\,$ The Dual F-Signature of Veronese Rings

arXiv:2405.02542

Available in arXiv, with V. Bouca and E. Tolosa-Villareal

Participation in defense committee

Undergraduate defense

 GUILLERMO, L. H; VASCONCELLOS, K. A; BEGGIO, P.C; JARA, R. A.O. Participation in the Ádina Ferreira Carvalho's defense committee: A topologia de superfícies: uma noção intuitiva e seu uso como recurso pedagógico, 2021, Universidade Estadual do Norte Fluminense Darcy Ribeiro

Grants

• Petrobras 2024

Approved on the Public Selection Process of Petrobras for the Chemist position

• Grade 10 FAPERJ PhD fellowship

2023 - 2024

FAPERJ: Fundação de Amparo à Pesquisa do Estado do Rio de Janeiro Rejected due to its durability

• PhD fellowship 2020 — 2024

CAPES: Coordenação de Aperfeiçoamento de Pessoal de Nível Superior

Process: 88887.509372/2020-00

• Master fellowship

2018 - 2020

CNPq: Conselho Nacional de Desenvolvimento Científico e Tecnológico

• Fourth highest score in the **Prova Extramuros**

2017

National exam for access to Graduate Programs in Mathematics at the top Universities in Brazil

Participation in events

Invited talks

• Residual Intersections and Kitt deformation.

September 2024

V Brazilian Congress of Youth Reseachers in Pure and Applied Mathematics and Statistics, UFMG

• A quick tour in the theory of F-regular rings.

October 2023

Algebra Forum, UFRJ

Poster presentation

• Residual Intersections and Kitt Ideals. Freedom in Algebraic Geometry 2024,

March 2024

Participant

• V Brazilian Congress of Youth Reseachers in Pure and Applied Mathematics and State	istics
UFMG, Belo Horizonte, Brazil	2024
• Freedom in Algebraic Geometry 2024, UFF, Teresópolis, Brazil	2024
• 34° Brazilian Mathematics Colloquium, IMPA, Rio de Janeiro, Brazil	2023
• Pragmatic 2023: Cohomology and Frobenius, Università degli Studi di Catania, Catania,	2023
Italy	
• Celebrating Women in Mathematics, UFRJ, Rio de Janeiro, Brazil	2022
• 33° Brazilian Mathematics Colloquium, IMPA, Rio de Janeiro, Brazil	2021
• Celebrating Women in Mathematics, UFRJ, Rio de Janeiro, Brazil	2021
\bullet CIMPA School: Syzygies, from theory to applications, UFPB, João Pessoa, Brazil	2019
• 32° Brazilian Mathematics Colloquium, IMPA, Rio de Janeiro, Brazil	2019

Teaching

Assistant Professor

• An introduction to algebraic geometry, Federal University of Rio de Janeiro	1° semester, 2022
• Advanced linear algebra, Federal University of Rio de Janeiro	1° semester, 2022
• Linear algebra III Federal University of Rio de Janeiro	2° semester 2019

Professional Experience

• Chemist analyst at Petrobras

November 2024 — Currently

Languages

English Comprehends reasonably, speaks reasonably, reads well, writes well

Spanish Comprehends reasonably, speaks reasonably, reads reasonably, writes Reasonably

Portuguese Native

Programming

- Macaulay2
- LATEX

Complementary Education

ullet High School 2010-2012

Fluminense Federal Institute

GPA: 3.8

Hobbies

• Mathematics: I enjoy delving into Mathematics beyond Commutative Algebra, particularly finding fascination in areas such as Topology and Algebraic Geometry

• Pokémon: Playing Pokémon games, especially Pokémon Go, is my favorite hobby. At present, I have registered 858 Pokémon on my Pokédex