

Kevin Alves Vasconcellos

Curriculum Vitae

Personal details and contact

- **Nationality:** Brazilian
- **Birth date:** January 11, 1995
- **Email:** kevin.vasconcellos@im.ufrj.br
- **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 2020 — 2024
Director: [S. Hamid Hassanzadeh](#)
Thesis: [Deformation of Residual Intersections](#)
- **Master of Science in Mathematics**, Federal University of Rio de Janeiro 2018 — 2020
Director: [S. Hamid Hassanzadeh](#)
Dissertation: [Uma Fórmula para Core de um Ideal](#)
- **Bachelor of Sciences in Engineering**, State University of Northern Fluminense 2013 — 2018
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 access](#)
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 arXiv:2405.12170
Available in [arXiv](#), with H. Hassanzadeh
- The Dual F -Signature of Veronese Rings arXiv:2405.02542
Available in [arXiv](#), with V. Bouca and E. Tolosa-Villareal

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

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 Statistics](#)
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
- **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
- L^AT_EX

Complementary Education

- **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