# 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

Homological algebra, Commutative Algebra, Integral Closure Theory of Ideals, Residual Intersections of Ideals and (Generic) Kitt Ideals

## Education

- **Philosophy Doctor in Mathematics**, Federal University of Rio de Janeiro          2020 — currently
  **Director:** S. Hamid Hassanzadeh
  **Thesis title:** Deformation of Residual Intersections

- **Master of Science in Mathematics**, Federal University of Rio de Janeiro          2018 — 2020
  **Director:** S. Hamid Hassanzadeh
  **Dissertation title:** 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
  **Monograph:** Estudo da Influência do Resíduo Borra de Café nas Propriedades Tecnológicas de uma Massa Argilosa Industrial Utilizada na Fabricação de Tijolos Cerâmicos
  **GPA:** 3.6

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

## Publications

### Preprints

- The Dual $F$-Signature of Veronese Rings          arXiv:2405.02542
  Available in arXiv, with V. Bouca and E. Tolosa-Villareal.

### Other publications

- Data Assimilation in A Class of Environmental Disasters: Mathematical Aspects.   Open acess
  Published in Earth Science Research, with P. S. D Da Silva.

## Grants

- **Grade 10 FAPERJ Ph.D. fellowship**                                             2023 — 2024
  FAPERJ: Fundação de Amparo à Pesquisa do Estado do Rio de Janeiro
  Rejected due to its durability

- **Ph.D. 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

- **A quick tour in the theory of $F$-regular rings.** Algebra Forum, UFRJ         October 2023

### Poster presentation

- **Residual Intersections and Kitt Ideals.** Freedom in Algebraic Geometry 2024,  March 2024

### Participant

- **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

### Tutoring

- **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

# Languages

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

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

**Portuguse** Native

# Programming

- Macaulay2;

- LaTeX.

# 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 undoubtedly my favorite hobby. At present, I've registered 821 Pokémon on my Pokédex