THIAGO LOPES DE HOLLEBEN

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EDUCATION

Universidade Federal do Rio de Janeiro, Brazil   *march 2016 - july 2017 (interrupted)*
Major in Mathematics
Universidade Federal do Rio de Janeiro, Brazil   *july 2017 - 2020*
Bachelor in Applied Mathematics

Universidade Federal do Rio de Janeiro, Brazil   *august 2019 - december 2021*
Master's degree in Mathematics
Dissertation title: The log-concavity of chromatic polynomials.
Advisor: Seyed Hamid Hassanzadeh
Dalhousie University, Canada   *september 2022 - current*
PhD in Mathematics
Advisor: Sara Faridi

SKILLS

Programming: Macaulay2, Sage, Python, Javascript, Julia

COMPUTATIONAL ALGEBRA PERSONAL PROJECTS

Some simulations on statistical properties of Betti tables over a given class of ideals
Macaulay2 and Python script to study some statistical properties of Betti tables over a given class of ideals.
Technologies used: Macaulay2, Python3, github repository: Quantitative-Betti-Tables
Algorithms related to Elliptic Curves, prime factorization and cryptography.
Webpage that includes some statistical properties of rational points of elliptic curves over finite fields related to Serre's bound, a simple cryptography scheme and Lenstra's algorithm on factorization.
Technologies used: Javascript, link: Webpage

ACADEMIC ACHIEVEMENTS

Honours undergraduate research project
Received an award for an undergraduate research project on the algebraic and combinatorial properties of Edge Ideals. During SIAC 2018.
Advisor: Seyed Hamid Hassanzadeh

LEADERSHIP POSITIONS

Teaching assistant at Dalhousie
Fall of 2022 and Winter of 2023
Teaching assistant at UFRJ
First semester of 2019
Teaching assistant at UFRJ
First and second semester of 2018
Organizer of Week of Applied Mathematics and Mathematical Engineering (SEM^{2}Ap)
Organized virtual Week of Applied Mathematics and Mathematical Engineering (SEM^{2}Ap) in 2020
More info on: Webpage, Youtube, Instagram
Organizer of weekly student seminar at UFRJ
Organized weekly seminars at UFRJ during the second semester of 2019.

EVENTS ATTENDED

BIRS Workshop: Interactions Between Topological Combinatorics and Combinatorial Commutative Algebra. 2023 (talk)

Combinatorial Algebra meets Algebraic Combinatorics 2023. 2023 (poster)

Combinatorial Algebra meets Algebraic Combinatorics 2020. 2020

1st Joint Meeting Brazil-France in Mathematics. 2019.

32o Colóquio Brasileiro de Matemática. 2019.

SIMCARA. 2019.

Syzygies, from Theory to Applications. 2019.

XXV Escola de Álgebra. 2018.