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 (SEM²Ap)

Organized virtual Week of Applied Mathematics and Mathematical Engineering ($\mathrm{SEM^2Ap}$) 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 (IN PERSON)

Combinatorial Algebra meets Algebraic Combinatorics 2023. 2023 (poster presented)

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.