

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 - Present (expected 2020)

Bachelor in Applied Mathematics

Universidade Federal do Rio de Janeiro, Brazil

august 2019 - Present (expected 2021)

Master's degree in Mathematics

Advisor: Seyed Hamid Hassanzadeh

SKILLS

Languages: Macaulay2, Sage, Python, Javascript

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](#)

Some simulations on the statistical behaviour of rational points of elliptic curves over finite fields.

Sagemath script to study some statistical properties of rational points of elliptic curves over finite fields related to Serre's bound.

Technologies used: Macaulay2, Python3, github repository: [FiniteField-Elliptic-RationalPoints](#)

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

POSITIONS OF RESPONSIBILITY

Teaching assistant at UFRJ

First semester of 2019

Teaching assistant at UFRJ

First and second semester of 2018

Organizer of weekly student seminar at UFRJ

Organised weekly seminars at UFRJ during the second semester of 2019.

EVENTS ATTENDED

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.

RESEARCH LINE

Currently I'm studying Commutative Algebra.