

Bruno Ramos Lima Netto

CONTACT

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EDUCATION

Ph.D., Systems Engineering and Computer Science 2022-Current
PESC - COPPE/UFRJ - Algorithms and Combinatorics
Federal University of Rio de Janeiro, Brazil
Advisor: Prof. Fábio Botler
GPA: 2.78/3.0
With a period abroad at the University of Valparaíso, Chile
under the supervision of Prof. Daniel Quiroz during 2025.

M.Sc., Systems Engineering and Computer Science 2020-2022
PESC - COPPE/UFRJ - Algorithms and Combinatorics
Federal University of Rio de Janeiro, Brazil
Advisor: Prof. Fábio Botler
Thesis: Two Problems on Combinatorics: Roller Coaster Permutations & the Erdős-Sós Conjecture
GPA: 3.0/3.0

B.Sc in Applied Mathematics 2016-2020
Federal University of Rio de Janeiro, Brazil
Emphasis in Scientific Computing

WORK EXPERIENCE

Graduate Student Reseracher 2021-2022
COPPETEC Foundation
Developed a Adaptive Filtering Python Library based on the book Adaptive Filtering - Algorithms and Pratical Implementation by Professor Paulo Diniz from the Eletronic Engineering Department of the Federal University of Rio de Janeiro.

Undergraduate Student Researcher 2018-2019
Federal University of Rio de Janeiro
Worked with the simulation and analysis of a bi-dimensional newtonian viscous fluid flow using Python libraries such as Daedalus. Presented at the Cientific Initiation Jorney of the Federal University of Rio de Janeiro

TEACHING

Adjunct Professor 2023-2024

BSI - UFRJ

Teaching the undergraduate course of Mathematical Methods in Biology for the Biomedical Science Institute at the Federal University of Rio de Janeiro.

Teaching Assistant

2018-2019

Teaching Assistant for the undergraduate course of Scientific Computing during 2018 and 2019 at the Federal University of Rio de Janeiro.

EVENTS

Presentation - EUROCOMB

2025

Presented the paper Immersions of large cliques in graphs with independence number 2 and bounded maximum degree at the European Conference on Combinatorics

Presentation - Universidad de Valparaíso - INGEMAT

2025

Presented the paper Immersions of large cliques in graphs with independence number 2 and bounded maximum degree at the INGEMAT (Instituto de Ingenieria Matemática) seminar series of the University of Valparaíso, Chile.

Presentation - CSBC

2021

Presented the paper New Bounds on Roller Coaster Permutations at the Brazilian Computer Society Congress during the Theoretical Computer Science Workshop.

Event organization - International Congress of Mathematicians

2018

Helped the organization team of the International Congress of Mathematicians held in Rio de Janeiro, Brazil as a volunteer, assisting speakers and participants as well as helping with logistics.

Delegation Guide - International Mathematics Olympiad

2017

Helped the Equatorian team during the International Mathematics Olympiad held in Rio de Janeiro, Brazil as a volunteer, assisting the students and the team leader during the event.

PUBLICATIONS

1. BOTLER, FÁBIO; NETTO, BRUNO L. . New Bounds on Roller Coaster Permutations. In: Encontro de Teoria da Computação, 2021, Brasil. Anais do VI Encontro de Teoria da Computação (ETC 2021), 2021. p. 50.

PREPRINTS

1. Fábio Botler, Cristina G. Fernandes, Carla N. Lintzmayer, Rui A. Lopes, Suchismita Mishra, Bruno L. Netto, Maycon Sambinelli. Immersions of large cliques in graphs with independence number 2 and bounded maximum degree (submitted). [arxiv link](#).

ACHIEVEMENTS

- 1. Brazilian Mathematics Olympiad - 2019 - Honorable Mention
- 2. [Project Euler](#) - 2022 - 100 Problems Solved

NATURAL LANGUAGES

Portuguese: native Spanish: ● ● ● ● ●
English: ● ● ● ● ● French: ● ● ● ● ●

PROGRAMMING LANGUAGES

Python: ● ● ● ● ● Javascript: ● ● ● ● ●
Julia: ● ● ● ● ● TeX: ● ● ● ● ●