

SERGIO VILLAMARIN

Mathematician

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✉ 5417 S Robertson st

📍 New Orleans ,LA

EXPERIENCE

Tulane University

Teaching assistant

📅 Aug 2017 – Ongoing

📍 New Orleans, LA

Supported the main instructor of the courses: Combinatorics, Stats for Business, Stats for Scientist, Probability and Statistics I, Intro to Probability and Calculus I.

- Teaching and reviewing material of the courses.
- Creating and grading material (quizzes, worksheets, exams).
- Helping students during labs and office hours.

Sergio Arboleda University

Yaglom leader

📅 Jul 2015 – June 2017

📍 Bogota, Colombia

I organized, supervised and led a group of 5 to 10 people in applied educational math for the Talentos (matematicos) courses and other associated projects.

We aimed elementary through high-school students who had a particular interest in math.

- Finding non conventional math topics to provide content for the courses.
- Supervising the progress and development of the courses having weekly group meetings.
- Individual support helping with the research/content/design creation process of undergraduate students.
- Finding/implementing outreach opportunities for vulnerable populations.
- Organizing associated events.
- Communicating with the administrators and dean of the math department.
- Course design and content creation.

Haiko foundation

Educator

📅 Jun 2016 – Jun 2017

📍 Bogota, Colombia

Instructor and course designer for specialized math courses. **Haiko foundation** intents to improve marginalized communities by providing a complementary education for vulnerable schools.

- Giving workshops in schools for up to 30 elementary school kids.
- Design and create content for the courses.
- Teach and foment discussion with the kids.

EDUCATION

Math PhD student

Tulane University

📅 Ongoing

📍 New Orleans, LA

Bachelor's degree

Sergio Arboleda University

📅 Graduated in 2016

📍 Bogota, Colombia

- *Summa Cum Laude* degree with highest graduating GPA: 4.
- *Minora Studia Humaniorum Litterarum*

LANGUAGES

English



Spanish



SKILLS

Problem Solving

Leadership

Linux

C#

C++

Python

Matlab

Mathematica

R

office

HTML

CSS

Javascript

Unity3D

Unreal

AREA OF INTEREST

- Combinatorics.
- Probability and stats.
- Pedagogy and Educational math.
- Game development and design.

PUBLICATIONS

- Eulerian Numbers Associated with Arithmetical Progressions ([link](#)).
- Some combinatorial identities of the r -Whitney-Eulerian Numbers ([link](#)).
- Combinatorial micro-macro dynamical systems ([link](#)).