

# Lina Maria Simbaqueba M.

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## Education.

- 2023-           **Ms, Mathematics**, University of Victoria.
- 2018-2022   **Bs, Mathematics**, Universidad Nacional de Colombia.

## Employment.

- 2023-           **Teaching Assistant**, University of Victoria.
- 2022-2023   **Research Assistant**, Universidad Nacional de Colombia.
- 2022-2022   **Research Assistant**, University of Victoria – Mitacs Globalink.
- 2020-2021   **Teaching Assistant**, Universidad Nacional de Colombia.

## Publications and Preprints.

- 2024           J.-L. Baril, D. Colmenares, J.L Ramirez, D. Silva, L.M. Simbaqueba, D. Toquica, Consecutive pattern-avoidance in Catalan words according to the last symbol, accepted in RAIRO, January 2024.
- 2023           B. Natalie, C. Gabriel, J. Noel, L. M. Simbaqueba, Sidorenko-Type Inequalities for Pairs of Trees, submitted.
- 2022           J.-L. Baril, J.-L. Ramirez, L.-M. Simbaqueba, Equivalence classes of skew Dyck paths Modulo some patterns, Accepted in Integers: Electronic Journal of Combinatorial Number Theory, 2022.
- 2021           J.-L. Baril, J.-L. Ramirez, L.-M. Simbaqueba, Counting prefixes of skew Dyck paths, Journal of Integer Sequences, 2021, Vol. 24, Article 21.8.2.

## Talks.

- 2020           VI Regional Conference of Number Theory, Universidad del Cauca.
- 2020           Meeting of Math Students, Universidad de Antioquia.
- 2022           Seminario Sabanero de Combinatoria, Universidad Javeriana.
- 2022           XI Simposio Nororiental de Matemáticas, Universidad Industrial de Santander.
- 2022           Discrete Mathematics Seminar, Universidad Nacional de Colombia.

## Teaching and Tutoring.

- 2022-2023    **Círculos Matemáticos**, Sociedad Colombiana de Matemáticas. This program seeks to promote interest in mathematics to high school students.
- 2020-2021    **Volunteer in TRAUM**. This program promotes equality through accessible education for Colombian teenagers.
- 2021-2022    First-year **mathematics courses**, Universidad Nacional de Colombia.

## Honors and Awards.

2019	Undergraduate degree payment exemption.
2023	Best Undergraduate Thesis Award.

## Extracurricular Courses.

- Combinatorics I by Dr. Robert Morris at IMPA Brasil.
- Algorithmic Toolbox by University of California San Diego on the Coursera platform.

## References.

- **José Luis Ramírez** (supervisor), Universidad Nacional de Colombia.
- **Jonathan Noel** (supervisor), University of Victoria.