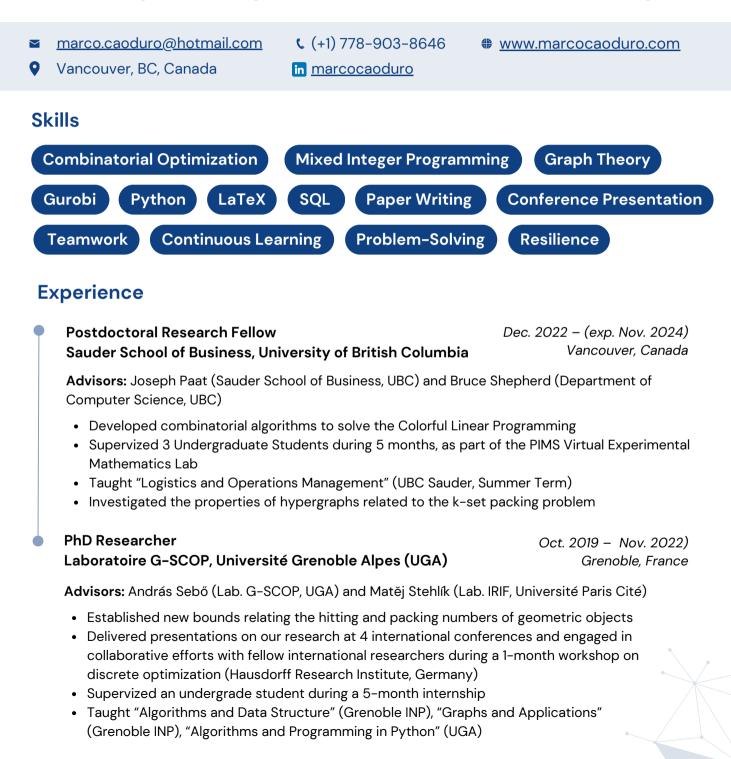
# Marco Caoduro (he/him)

# **Optimization Specialist**

Trilingual research scientist with over 4 years of extensive mathematical research expertise gained as a Postdoctoral and PhD Research Fellow in Canada and France. Proficient in Discrete Mathematics, Linear and Integer Programming, with hands-on experience in Python and Gurobi. Eager to leverage my analytical thinking, problem-solving abilities, and collaborative nature to tackle industry challenges.



# Marco Caoduro

**Optimization Specialist** 

# Education

<b>Teaching education</b> , Università degli Studi di Verona Courses: Teaching Methodology, Pedagogy, Anthropology, Psychology	Mar. 2021 – Sept. 2021 Online
<b>Master's degree in Mathematics</b> (110/110 with honors) Università degli Studi di Verona Thesis Title: "Dypergraph connectivity augmentation: an uncrossing approach"	Oct. 2017 – Sept. 2019 Verona, Italy
<ul> <li>Erasmus+ for Traineeship, Egerváry Research Group on Combinatorial Optimization, Eötvös Loránd University</li> </ul>	Feb. 2019 –  Aug. 2019 Budapest, Hungary
<ul> <li>Erasmus+ for Studying, Facultad de Matemáticas, Universidad de Murcia</li> </ul>	Sept. 2018 – Feb. 2019 Murcia, Spain

# **Selected Publications**

#### Boxicity and Interval-Orders: Petersen and the Complements of Line Graphs,

The 31st International Symposium on Graph Drawing and Network Visualization, Isola delle Femmine, with András Sebő

#### A lower bound for constant-size local certification,

Theoretical Computer Science Volume 971, 6 September 2023, 114068, with Virginia Ardévol Martínez, Laurent Feuilloley, Jonathan Narboni, Pegah Pournajafi, Jean-Florent Raymond

#### On the independence number of intersection graphs of axis-parallel segments,

Journal of Computational Geometry, Vol. 14 No. 1 (2023), with Jana Cslovjecsek, Michał Pilipczuk, Karol Węgrzycki

## **Selected Talks**

- Algorithmic Challenges Surrounding Colorful Carathéodory's Theorem, IAM UBC Seminar, February 26, 2024
- Boxicity and Interval-Orders: Petersen and the Complements of Line Graphs, West Coast Optimization Meeting (WCOM 23), September 23, 2023
- On the Hitting/Packing Ratio of Axis-Parallel Segments, 11th International Colloquium on Graph Theory and combinatorics (ICGT 2022), July 4–8, 2022

## Languages

Italian: Native English: Fluent (IELTS: 8.0/9, 2024) French: Fluent Spanish: Intermediate