Antoine COMMARET

First year of PhD - 2021-2022

Nice, France
+33 6 66 78 77 69
✉ antoine.commaret@inria.fr

📕 Education

2021 – 2024	**PhD Candidate**, *DataShape Team, INRIA Sophia-Antipolis & J. A. Dieudonné Lab*, France. "Persistent Geometry", under the supervision of David Cohen-Steiner & Indira Chatterji
2019 – 2020	**Master 2 "Mathématiques, Vision, Apprentissage" with highest honors**, *ENS Paris-Saclay*. Courses over the mathematics of Vision and Learning.
2017 – 2019	**Master 1 & Last Year of Bachelor**, *Ecole Normale Supérieure de Paris*, France. General advanced maths in the highly selective mathematics path of the ENS
2015 – 2017	**Classes préparatoires aux Grandes Ecoles**, *Lycée Hoche*, Versailles, France. Admitted to both École Polytechnique and ENS Paris after 2 years of intense preparation
2012 – 2015	**Baccalauréat scientifique with highest honors**, *Lycée Jean-Pierre Vernant*, Sèvres, France.

💼 Experience

June 2022	**EUTOPIA Summer School**, Paris. Summer School on topology in the context of soft matter and biological molecules.
2020 – 2021	**Research Internship**, *DataShape Team, INRIA Saclay*. Mathematical analysis of the UMAP method of dimensionality reduction. Under the supervision of Frédéric Chazal and Bertrand Michel.
2019	**Research Internship**, *Georg-August University, Germany*, Göttingen, Germany. Analytic Number Theory. Weak Goldbach conjecture proof review. Under the supervision of Harald Helfgott

👥 Teaching

2021 – 2022	**Lecturer**, *Université Côte d'Azur*, Nice and Sophia-Antipolis. Classes of Real analysis & Graph theory.
2021 – 2022	**Vulgariser**, Nice, France. Talks in Primary schools through the association "Regards de Géomètres".
2017 – 2021	**Oral Examiner**, *Lycée Hoche*, Versailles. Weekly oral examination in first and second year of Classes Préparatoires.

💬 Languages

Native	French
Fluent	English, German
Beginner	Esperanto, Italian

</> Programming

Advanced	LaTeX
Advanced	Python : Machine Learning with Numpy, Scipy, Pytorch and Topological Data Analysis with GUDHI.