

Igor Martayan

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👤 [imartayan](#)
23 years old

PhD student in Computer Science at Univ Lille

Experience

starting October 2023 **PhD in Computer Science, Bonsai team**, Univ. Lille, France
“Locality-preserving representation of k -mer sets”
Supervised by Jean-Stéphane Varré and Camille Marchet

Research internships and projects

Mars-July 2023 **Research intern, Bonsai team**, Univ. Lille, France
Locality-preserving representation of k -mer sets.
Supervisor: Antoine Limasset.

February-June 2022 **Semester research project, Theory group**, EPFL, Switzerland
Forest augmentation problem.
Supervisor: Ola Svensson.

September-December 2021 **Semester research project, WIDE team**, INRIA Rennes, France
Indistinguishability for black-box recommenders outputs.
Supervisors: Erwan Le Merrer, Gilles Trédan.

May-July 2021 **Research intern, GenScale team**, INRIA Rennes, France
Fragmented alignment method for long genomic sequences.
Supervisor: Dominique Lavenier.

Education

2022–2023 **Master's Degree in Computer Science, Parisian Master of Research in Computer Science**, Paris, France
Honors: *magna cum laude*.

Spring 2022 **Exchange semester, École Polytechnique Fédérale de Lausanne**, Lausanne, Switzerland

2021–2022 **First year of Master in Computer Science, ENS Rennes**, Rennes, France
Honors: *summa cum laude*.

2020–2021 **Bachelor's Degree in Computer Science, ENS Rennes**, Rennes, France
Honors: *summa cum laude*.

2017–2020 **MPSI/MP* Preparatory classes, Lycée Thiers**, Marseille, France
Mathematics specialization, computer science option.

2017 **Scientific Baccalaureate, Lycée Thiers**, Marseille, France
Honors: *summa cum laude*, mathematics specialization.

Publications

Timothé Rouzé, Igor Martayan, Camille Marchet, and Antoine Limasset. Fractional hitting sets for efficient and lightweight genomic data sketching. In *Workshop on Algorithms in Bioinformatics, WABI 2023*, 2023.

Relevant skills

Imperative Python, C, C++, Rust, Java
Functional OCaml, Scala, Coq, Isabelle/HOL
Other \LaTeX , Bash, Git

Languages

French Native
English Fluent
German Intermediate

Interests

Informatics Randomized algorithms, graph algorithms, bioinformatics, competitive programming.
Personal Aïkido, bass guitar, board games, Japanese culture, science-fiction.