





Timothé Picavet




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Studies

Curriculum

2023–2026	PhD in computer science LABRI, UNIVERSITE DE BORDEAUX · Bordeaux 📍	
2019–2023	Bachelor and Master of Computer Science ENS DE LYON · Lyon 📍	
2019–2020	Bachelor of Mathematics UNIVERSITE LYON 1 · Lyon 📍	
2017–2019	Preparatory classes LYCEE SAINT LOUIS · Paris 📍 MPSI and MP* classes	
2014–2017	High school (science section) LYCEE TURGOT · Paris 📍	

Diplomas

2022	Fundamentals of computer science MASTER · ENS de Lyon 📍	
2020	Mathematics BACHELOR · Université Lyon 1 📍	
2017	Baccalauréat S SPE MATHS · Lycée Turgot, Paris 📍	

Skills and experience

Languages

French mother tongue
English fluent (CAE grade A)
German B1 level
Italian B1 level

Research internships

L3 with Binh-Minh Bui-Xuan
M1 with Paul Wollan
M2 with Marthe Bonamy and Alexandra Wesolek
PLR1 with Mathieu Mari and Michał Pilipczuk
PLR2 with Jukka Suomela

Coding languages

Python C++ OCaml OpenGL

2026

- **Meta-Theorems for Cuttable Distributed Problems**, *PODC 2026*, with Marthe Bonamy, Cyril Gavoille, Avinandan Das, Jukka Suomela, and Alexandra Wesolek. [our version, arXiv and publisher's version in process]
- **The Distributed Complexity Landscape on Trees Depends on the Knowledge About the Network Size**, *PODC 2026*, with Alkida Balliu, Sebastian Brandt, Fabian Kuhn, Dennis Olivetti and Gustav Schmid. [arXiv and publisher's version in process]
- **A Polynomial Bound on the Pathwidth of Graphs Edge-Coverable by k Shortest Paths**, *STACS 2026* (10:1-10:17), with Julien Baste, Lucas de Meyer, Ugo Giocanti, and Etienne Objois. [arXiv preprint, publisher's version]
- **Testing H -Freeness on Sparse Graphs, the Case of Bounded Expansion**, *STACS 2026* (55:1-55:18), with Samuel Humeau, Mamadou Moustapha Kanté, Daniel Mock, and Alexandre Vigny. [arXiv preprint, publisher's version]

2025

- **Local Constant Approximation for Dominating Set on Graphs Excluding Large Minors**, *PODC 2025* (77-87), with Marthe Bonamy, Cyril Gavoille and Alexandra Wesolek. [arXiv preprint, publisher's version]
- **Induced Disjoint Paths Without an Induced Minor**, *ICALP 2025* (4:1-4:14), with Pierre Aboulker, Édouard Bonnet, and Nicolas Trotignon. [arXiv preprint, publisher's version]
- **Distributed Approximation Algorithms for Minimum Dominating Set in Locally Nice Graphs**, with Marthe Bonamy, Cyril Gavoille, and Alexandra Wesolek. [arXiv preprint]
- **Bipartite Turán number of paths and other trees**, with Marthe Bonamy and Théotime Leclere. [arXiv preprint]

2024

- **Distributed Binary Labeling Problems in High-Degree Graphs**, *SIROCCO 2024* (402-419), with Henrik Lievonen and Jukka Suomela. [arXiv preprint, publisher's version]

2023

- **Brief Announcement: Distributed Derandomization Revisited**, *DISC 2023* (40:1-40:5), with Sameep Dahal, Francesco D'Amore, Henrik Lievonen and Jukka Suomela. [arXiv preprint, publisher's version]
- **A parameterized approximation scheme for Geometric Knapsack problem with wide items**, *IPEC 2023* (33:1-33:20), with Mathieu Mari and Michal Pilipczuk. [arXiv preprint, publisher's version]

2021

- **Temporal Matching on Geometric Graph Data**, *CIAC 2021* (394-408), with Ngoc-Trung Nguyen and Binh-Minh Bui-Xuan. [HAL version, publisher's version]

2026

- *April*: participated and gave a talk in the **ANR ENEDISC** meeting in LaBRI (Bordeaux).
- *May*: 3-weeks research visit at Universidad Adolfo Ibáñez (Santiago) with **Pedro Montealegre** and **Martin Rios-Wilson**.
- *July*: invited for a 1-week research meeting at LIS (Marseille) by **Arnaud Labourel**.

2025

- *February*: 1-week research visit at Université Clermont Auvergne (Clermont-Ferrand) with **Alexandre Vigny**.
- *March*: participated in the **ANR ENEDISC** meeting in IRIF (Paris).
- *September*: received **Avinandan Das** for a 1-week research visit in Bordeaux.
- *November*: 1-week research visit at ENSL (Lyon) with **Édouard Bonnet** and **Jean-Florent Raymond**.

2024

- *January*: 1-month research visit at TU Berlin with **Alexandra Wesolek**.
- *March*: participated in the **RW-DIST workshop** in l'Aquila.
- *May*: participated in the **EPIT 2024** summer school.
- *July*: received **Gustav Schmid** for a 1-week research visit in Bordeaux.
- *October-November*: 1-month research visit at LIRIS&ENSL (Lyon) with **Édouard Bonnet** and **Théo Pieron**.
- *December*: 1-week research visit at University of West Bohemia (Pilsen) with **Tomas Kaiser**.

2023

- *October*: invited talk in the **ALGCo seminar** at LIRMM (Montpellier).

Teaching and other responsabilites

Teaching at Institut d'Optique d'Aquitaine

- 3D programming, *2024-2026*.
- C++ programming, *2024-2026*.
- Co-supervision of Masters projects, *2024-2025*.
- MatLab programming, *2025-2026*.

Teaching at IUT de Bordeaux

- Algorithms and data structures, *2023-2024*.
- Java and C++ programming projects, *2023-2024*.

Students

- Internship co-supervision of **Théotime Leclere** (3rd year of Bachelor) with *Marthe Bonamy* in 2025. Led to a publication.

Seminars

- **LaBRI Graphs and Optimization (GO) seminar**, co-organization, 2024-2026.
- **LaBRI intern students seminar**, co-organization, 2023-2025.

Councils

- Student representative at the **EDMI council** (Doctoral School of Mathematics and Computer Science of Bordeaux), 2025-2026.

Conference reviews

- **Symposium on Computational Geometry (SoCG)** (x2).

Journal reviews

- **European Journal of Combinatorics**.
- **SIAM Journal on Discrete Mathematics (SIDMA)**.

Talks

2026

- **Local Constant Approximation for Dominating Set on Graphs Excluding Large Minors**, at *ANR ENEDISC meeting, LaBRI, Bordeaux*.

2025

- **Local Constant Approximation for Dominating Set on Graphs Excluding Large Minors**, at *PODC 2025, Santa Maria Huatulco, Mexico* and *AlgoDist seminar, LaBRI, Bordeaux, France*.
- **Induced Disjoint Paths Without an Induced Minor**, at *ICALP 2025, Aarhus, Denmark* and *JGAs 2025, Paris, France*.

2024

- **Asymptotic dimension, distributed algorithms, and local graph concepts**, at *Graph Theory Seminar, Pilsen, Czech Republic*.
- **Algorithmes distribués et dimension asymptotique**, at *JGAs 2024, Dijon, France*.
- **Locally finding dominating sets in $K_{2,t}$ -minor-free graphs**, at *Discrete Mathematics Seminar, TU Berlin, Germany*.

2023

- **Brief Announcement: Distributed Derandomization Revisited**, at *DISC 2023, L'Aquila* and *AlgoDist seminar, LaBRI, Bordeaux, France*.
- **A parameterized approximation scheme for the 2D-Knapsack problem with wide items**, at *IPEC 2023, Amsterdam, Netherlands* and *ALGCo seminar, LIRMM, Montpellier, France*.
- **Locally finding dominating sets in $K_{2,t}$ -minor-free graphs**, at *MIMUW seminar, Warsaw, Poland*, *ALGCo seminar, LIRMM, Montpellier, France*, and *JGA 2023, Lyon, France*.

2022

- **Locally approximating dominating sets in $K_{2,t}$ -minor-free graphs**, at *GO seminar, LaBRI, Bordeaux, France*.

2021

- **Temporal Matching on Geometric Graph Data**, at *CIAC 2021, online*.

2020

- **Couplage temporel et géométrique**, at *JGAs 2020, online*.

Hobbies



Game programming



Chess



Hiking, bouldering,
diving



Music, piano,
composition



Traveling