

Steven Sailly

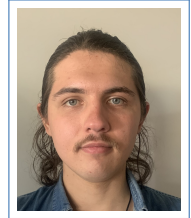
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Education

- Since Sep 2025 **PhD Student**, *Institut Polytechnique de Paris - SAMOVAR Reasearch Lab*
Formal Foundations and Techniques for Reliable Graph Data Processing at Scale
Supervisors: Stefania Dumbrava (director), Nadime Francis, Victor Marsault
Funding: ANR JCJC VERDI “Verified Foundations of Large-Scale Distributed Graph Systems”
- Sep 2024 - **Master’s Degree - Preparation for the Agrégation in Computer Science**,
Aug 2025 *Université Paris Cité*, Eligible for the Agrégation in Computer Science
Additional course attended as an auditor: *Querying Data: Foundations and Practice*,
Leonid Libkin
- Sep 2022 - **Master’s Degree in Computer Science - *Data: Algorithms, Processing,***
Sep 2024 ***Analysis***, *Université Paris Cité*, with High Honors
- Sep 2019 - **Double Bachelor’s Degree in Computer Science and Japanese Studies**,
Jun 2022 *Université Paris Cité*, with Honors

Experience

- Since Sep 2025 **Teaching Assistant**, *Université Gustave Eiffel & ESIEE*
Details in the dedicated section
- Mar 2025 - **Research Intern**, *Télécom SudParis - SAMOVAR Research Lab & Université*
Aug 2025 *Gustave Eiffel - Laboratoire d’Informatique Gaspard Monge*, Comparison of
Property Graph Constraint Languages
Supervisors: Stefania Dumbrava, Nadime Francis, Victor Marsault
- Apr 2024 - **Research Intern**, *Université Gustave Eiffel - Laboratoire d’Informatique Gas-*
Sep 2024 *pard Monge*, Binding-Trail Semantics Compatibility with GQL
Supervisors: Nadime Francis, Victor Marsault
- Feb 2023 - **Student Tutor**, *Université Paris Cité*
Dec 2023 Tutoring 1st & 2nd-year undergraduates in Computer Science
- Jun 2023 - **Data Engineer Intern**, *Teamly Digital*, Evaluation, specification, and imple-
Sep 2023 mentation of a recommendation system for a television application
Handling PostgreSQL & Neo4j databases, implementing new methods on top of the
Graph Data Science library. Supervisor: Olivier Papy

Teaching

- 2025 - 2026 **Databases**, *Gustave Eiffel University - 2nd-year Computer Science undergradu-*
ates, Lab sessions, project monitoring
Course instructor: Nadime Francis
- Automata and languages**, *Gustave Eiffel University - 2nd-year Computer*
Science undergraduates, Tutorial sessions
Course instructor: Claire David

Introduction to artificial intelligence, *ESIEE - 2nd year of the Computer science, design, architecture and development engineering program (1st-year graduate equivalent)*, Tutorial sessions

Course instructor: Cyril Nicaud

Publications

- [1] Stefania Dumbra, Nadime Francis, Victor Marsault, and Steven Saily. Expressive Power of Property Graph Constraint Languages. *arXiv preprint arXiv:2603.09806*, 2026. Available at <https://arxiv.org/abs/2603.09806>.
- [2] Steven Saily. Compatibilité de la sémantique binding-trail avec GQL. Master's thesis, Université Paris Cité, 2024. Supervised by Nadime Francis and Victor Marsault. Accessible from <https://steven.saill.yt>.