



Alexandre Vigny

Postdoctoral Researcher

In logic, graph theory,
distributed computing,
& parameterized complexity.



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About me

I am currently doing a postdoc at the University of Bremen, in the team of [Sebastian Siebertz](#).

At the moment, we are primarily working on tractable algorithms for sparse classes of graphs.

Before that I was a postdoc at the University of Warsaw, working with [Mikołaj Bojańczyk](#) and [Szymon Toruńczyk](#).

A couple of years earlier, I was a Ph.D. student in University Paris Diderot, Paris VII under the guidance of [Arnaud Durand](#) and [Luc Segoufin](#).

I worked on nowhere dense classes of graphs and the evaluation of first-order queries.

Generally speaking, my research interests lie in the intersection of logic and graph theory, with a new interest for distributed computing.

Spoken Languages

- French (Native Speaker)
- English (Proficient)
- German (Beginner)

Positions

Since Nov. 2019	Postdoc With Sebastian Siebertz.	University of Bremen, Germany
Nov. 2018 - Sep. 2019	Postdoc With Mikołaj Bojańczyk and Szymon Toruńczyk.	University of Warsaw, Poland
Oct. 2015 - Sep. 2018	Ph.D. student Supervised by Arnaud Durand and Luc Segoufin.	Université Paris Diderot, France
May. 2015 - Sep. 2015	Trainee Supervised by Luc Segoufin.	ENS Cachan, France

Publications

Full list

- On my web page: <https://alexandre-vigny.github.io>
- Or dblp: <https://dblp.uni-trier.de/pid/197/0077.html>

Selected few

2022	Algorithms and data structures for first-order logic with connectivity under vertex failures. Together with Michał Pilipczuk , Nicole Schirrmacher , Szymon Toruńczyk , and Sebastian Siebertz .	ICALP' 22
2020	Elimination Distance to Bounded Degree on Planar Graphs. Together with Alexander Lindermayer and Sebastian Siebertz .	MFCS' 20
2018/2022	Enumeration for FO Queries over Nowhere Dense Graphs. Together with Nicole Schweikardt and Luc Segoufin .	PODS '18 & J. ACM
2018	Query Enumeration and Nowhere Dense Graphs. Supervised by Arnaud Durand and Luc Segoufin .	PhD Thesis

Notable Events

30/01/2022	Dagstuhl Seminar 22051 "Finite and Algorithmic Model Theory"	Dagstuhl, Germany
01/10/2021	Dagstuhl Seminar 20121 "Sparsity in Algorithms, Combinatorics and Logic"	Dagstuhl, Germany
28/10/2019	Lecturer in the colloquium "Facets of Complexity"	Berlin, Germany
19/05/2019	Dagstuhl Seminar 19211 "Enumeration in Data Management"	Dagstuhl, Germany
08/03/2018	Event: "Ma thèse en 180 secondes" Explain your thesis to a jury of non specialists in less than 3 minutes.	Paris, France

Teaching

2019-2022	Creation of syllabuses (master level) Graph theory, set and model theory, parameterized complexity, etc. Around 300H	University of Bremen, Germany
2015-2018	Tutorials and labs (undergrad level): Java programming, automata, algorithms, databases, etc. Around 180H	Université Paris Diderot, France

Miscellaneous

Involvement in the life of the lab

- PhD representative in charge of supply management.
- Co-organizer of a weekly informal seminar for PhD students.
- Organizer of a weekly social event for PhD students.

Hobbies

I swim, sail, climb, play board games and bridge.