

Career and Education

- 2016– **Tenured associate professor in data management**, Télécom Paris, DIG team
- 2013–2016 **PhD on “Leveraging the Structure of Uncertain Data”**, Télécom Paris
Supervised by Pierre Senellart, defended on March 14th, 2016 (*mention très honorable*)
- 2012 **Computer science research master (MPRI)**, École normale supérieure
Mention très bien (very good), ranked 5th of 58 students. M2 research internship with Pierre Senellart
- 2010 **Computer science licence**, École normale supérieure. *Mention très bien*
- 2007–2009 **Classes prépa MPSI-MP***, Lycée Kléber, Strasbourg
Admitted to the École normale supérieure in computer science, ranked 2nd.
- 2007 **Scientific Baccalauréat**, Lycée des Pontonniers, Strasbourg. *Mention très bien*

Recent Selected Publications

- ICALP’21** Antoine Amarilli, Louis Jachiet, Charles Paperman.
Dynamic Membership for Regular Languages.
Best paper award of ICALP’21 track B
- ICDT’21** Antoine Amarilli, Benny Kimelfeld.
Uniform Reliability of Self-Join-Free Conjunctive Queries.
- ICDT’20** Antoine Amarilli, İsmail İlkan Ceylan.
A Dichotomy for Homomorphism-Closed Queries on Probabilistic Graphs.
Best paper award of ICDT’20
- ToCL, 2020** Antoine Amarilli, Michael Benedikt.
Finite Open-World Query Answering with Number Restrictions.
- NeurIPS 2019** Andy Shih, Guy Van den Broeck, Paul Beame, Antoine Amarilli.
Smoothing Structured Decomposable Circuits.
- ToCS, 2019** Antoine Amarilli, Florent Capelli, Mikaël Monet, Pierre Senellart.
Connecting Knowledge Compilation Classes and Width Parameters.
- PODS’19** Antoine Amarilli, Pierre Bourhis, Stefan Mengel, Matthias Niewerth.
Enumeration on Trees with Tractable Combined Complexity and Efficient Updates.
- ICDT’19** Antoine Amarilli, Pierre Bourhis, Stefan Mengel, Matthias Niewerth.
Constant-Delay Enumeration for Nondeterministic Document Spanners.
Featured in ACM SIGMOD Research Highlights
- ToCS, 2019** Antoine Amarilli, Pierre Bourhis, Mikaël Monet, Pierre Senellart.
Evaluating Datalog via Tree Automata and Cycluits.
- JAIR, 2018** Antoine Amarilli, Michael Benedikt, Pierre Bourhis, Michael Vanden Boom.
Query Answering with Transitive and Linear-Ordered Data.
- ICALP’18** Antoine Amarilli, Charles Paperman.
Topological Sorting under Regular Constraints.
- ICDT’18** Antoine Amarilli, Mikaël Monet, Pierre Senellart.
Connecting Width and Structure in Knowledge Compilation.
- ICALP’17** Antoine Amarilli, Pierre Bourhis, Louis Jachiet, Stefan Mengel.
A Circuit-Based Approach to Efficient Enumeration.
- PODS’17** Antoine Amarilli, Mikaël Monet, Pierre Senellart.
Conjunctive Queries on Probabilistic Graphs: Combined Complexity.
- ICDT’17** Antoine Amarilli, Pierre Bourhis, Mikaël Monet, Pierre Senellart.
Combined Tractability of Query Evaluation via Tree Automata and Cycluits.

Main Teaching Activities

- 2017–2021 **Director of the ICPC SWERC programming contest**, *Télécom Paris*, Competitive programming contest for students for Southwestern Europe, 228 contestants in 2017, 267 in 2018, 294 in 2019–2020, 321 (remote) in 2020–2021
- 2017–2021 **Oral examiner in theoretical computer science**, *École normale supérieure*, 44 candidates in 2017, 50 candidates in 2018, 24 candidates in 2019, 24 candidates in 2021
- 2018–2021 **Web Data Management**, *Master Parisien de Recherche en Informatique*, Developed and taught classes with Pierre Senellart from 2018 to 2020 and with Bogdan Cautis in 2020–2021 (12 hours/year, 2 years, ≈10 students)
- 2016–2021 **Web Data Management**, *Mastère spécialisé Big Data, Télécom Paris*, Developed and taught classes on Web technologies (12 hours/year, 5 years, ≈60 students/year). Responsible for the class since 2018–2019 (coordinating a team of 6 teachers).
- 2013–2021 **Introduction to competitive programming**, *Télécom Paris*, Master level; developed slides, teacher for a group (24 hours/year, 8 years, ≈25 students/year). Responsible since 2016–2017 of the class (≈70 students) and internal contest (≈40 students)
- 2013–2021 **Formal language theory**, *Télécom Paris, mandatory 1st year class*, Responsible for a group : classes, labs, tutorials (16.5 hours/year, 8 years, ≈30 students/year)
- 2017–2021 **Data structures and algorithms**, *Télécom Paris, mandatory 1st year class*, Responsible for a group : classes, labs, tutorials (28.5 hours/year, 4 years, ≈30 students/year)
- 2015–2018 **Uncertain Data Management**, *M2 Data and Knowledge, Université Paris-Saclay*, Developed and taught the class with Silviu Maniu (12 hours/year, 3 years, ≈30 students/year)
- 2012–2015 **Web Technologies**, *COMASIC Master (Polytechnique, Télécom, ENSTA ParisTech)*, Fully developed and taught the class (12 hours/year, 3 years, ≈10 students/year)

Reviewing

- PC member KR'21, AAI'21, IJCAI'21, STACS'21, IJCAI'20, IJCAI'19, ICDT'19, ICDT'18, BDA'17
- Misc reviews *LMCS*, *ICALP'21*, *ICDT'21*, *STACS'20*, *MFCS'20*, *ICDT'17*, *BDA'16*

Public Talks

- **1 invited talk** at the ESSLLI summer school for the Beth prize, **1 invited keynote** at a student conference
- **9 talks** in teams and project meetings abroad, including **3 Dagstuhl seminars** (14331, 17381, 19211)
- **22 talks** at national and international conferences and workshops, including **one best talk award** at Highlights'16 (5 recipients among 73 talks)
- **18 talks** in French team seminars

Languages

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|---------|--------------------|---|
| French | Mother tongue. | <i>Placed second at the Dictée ECE 2012 and first (by school team) in 2016.</i> |
| English | Fluent. | <i>IGCSE diploma. International option for the Baccalauréat.</i> |
| German | High school level. | <i>Studied as a second language for 10 years.</i> |

Awards

- 2017 Joint winner of the Beth Dissertation Award.
- 2017 Placed first at the Télécom Paris PhD prize.
- 2015 Placed first at the Google Hash Code programming contest.
- 2010 and 2011 Silver medal at the SWERC (ACM ICPC selection contest for Southwestern Europe).
- 2008 Placed first at Prologin, the French national computer science contest.
- 2007 First *accessit* of the *Concours général* in philosophy (French high school national contest).