

Antoine Amarilli

Associate Professor in Data Management

Born on February 7th, 1990, in Colmar (68), France

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Career and Education

- 2016– **Tenured associate professor in data management**, Télécom ParisTech, DIG team.
- 2013–2016 **PhD on “Leveraging the Structure of Uncertain Data”**, Télécom ParisTech.
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*.

Selected Publications

- ICALP’18** Antoine Amarilli, Charles Paperman.
Topological Sorting under Regular Constraints.
- PODS’18** Antoine Amarilli, Michael Benedikt.
When Can We Answer Queries Using Result-Bounded Data Interfaces?
- ICDT’18** Antoine Amarilli, Mikaël Monet, Pierre Senellart.
Connecting Width and Structure in Knowledge Compilation.
- ICDT’18** Antoine Amarilli, Pierre Bourhis, Stefan Mengel.
Enumeration on Trees under Relabelings.
- 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.
- ICDT’17** Antoine Amarilli, Yael Amsterdamer, Tova Milo, Pierre Senellart.
Top-k Queries on Unknown Values under Order Constraints.
- IJCAI’16** Antoine Amarilli, Michael Benedikt, Pierre Bourhis, Michael Vanden Boom.
Query Answering with Transitive and Linear-Ordered Data.
- PODS’16** Antoine Amarilli, Pierre Bourhis, Pierre Senellart.
Tractable Lines on Treelike Instances: Limits and Extensions.
- US Patent** Antoine Amarilli, Mehryar Mohri, Cyril Allauzen.
Minimum Bayesian Risk Methods for Automatic Speech Recognition.
- IJCAI’15** Antoine Amarilli, Michael Benedikt.
Combining Existential Rules and Description Logics.
- LICS’15** Antoine Amarilli, Michael Benedikt.
Finite Open-World Query Answering with Number Restrictions.
- ICALP’15** Antoine Amarilli, Pierre Bourhis, Pierre Senellart.
Provenance Circuits for Trees and Treelike Instances.

Main Research Visits Abroad

- 2013 Visit at the **University of Oxford** with **Michael Benedikt** (5 months).
- 2013 Visit at **Tel Aviv University** with **Tova Milo** (3 months).
- 2011 Internship at **Google NYC** supervised by **Cyril Allauzen** (4 months).

Main Teaching Activities

- 2017, 2018 **Director of the ACM ICPC SWERC programming contest**, *Télécom ParisTech*, On-site team programming contest for students of Southwestern Europe (228 students).
- 2017, 2018 **Examiner in theoretical computer science**, *École normale supérieure*, 44 applicants.
- 2016–2018 **Web Data Management**, *Télécom ParisTech*, Developed and taught classes about Web technologies (12 hours/year, 2 years), 60 students.
- 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).
- 2012–2018 **Introduction to competitive programming**, *Télécom ParisTech*, Master level; developed slides, teacher for a group (24 hours/year, 5 years, ≈25 students/year). Responsible in 2016–2018 of the class (76 students) and internal contest (46 students).
- 2012–2018 **Formal language theory**, *Télécom ParisTech*, mandatory 1st year class, Responsible for a group : classes, labs, tutorials (16.5 hours/year, 5 years, ≈30 students/year).
- 2012–2015 **Web Technologies**, *COMASIC Master (Polytechnique, Télécom, ENSTA ParisTech)*, Fully developed and taught the class (12 hours/year, 2 years, ≈10 students/year).
- 2014, 2016 **Coach for the ACM ICPC SWERC programming contest**, *Télécom ParisTech*.

Reviewing

- PC member ICDT'19, ICDT'18, BDA'17, SUM'16, BDA'16 (demos)
- Misc reviews *VLDB Journal, Journal of Logic and Computation, Review of Symbolic Logic, Distributed and Parallel Databases, ICDT'17, PODS'16, ICDE'15, LATIN'14, SIGMOD'13*

Public Talks

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

Languages

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

Awards

- 2017 Joint winner of the Beth Dissertation Award.
- 2017 Placed first at the Télécom ParisTech 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).