

# Curriculum Vitae

**Sihem AMER-YAHIA**

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Ph.D. in Computer Science (INRIA, U. Paris-Orsay, France) 1999.

Master's in Computer Science (U. Paris-Dauphine, France) 1995.

Engineer in Computer Science (Ranked first, ESI, Algeria) 1994.

## CURRENT POSITION

**[2021-2026]** Deputy head of Laboratoire d'Informatique de Grenoble (LIG).

**[2012-Present]** CNRS Research Director at LIG, France. Head of the SLIDE team.

## PREVIOUS POSITIONS

**[2011-2012]** Founding Member and Principal Scientist at Qatar Computing Research Institute (QCRI), Head of the Social Computing Lab (about 30 researchers).

**[2006-2011]** Founding member and Senior Research Scientist of Yahoo! Labs, NYC, USA.

**[2000-2006]** Senior Member of the Technical Staff at AT&T Labs, USA.

**[1999-2000]** Post-doctoral fellow at AT&T Labs, USA.

## FELLOWSHIPS AND AWARDS

**VLDB Women in Databases Award 2024:** For foundational contributions in data management and data exploration research.

**SIGMOD Contributions Award 2024:** For contributions towards diversity, equity, and inclusion in the professional database research community.

**IEEE TCDE Impact Award 2024:** For contributions to laying the interdisciplinary data engineering foundations of social computing and crowdsourcing.

**CNRS Silver Medal in 2020:** one medal per field awarded to a senior researcher for the originality and quality of my work on Social Computing, which is recognized at national and international levels.

**ACM Distinguished Member:** for significant impact in Data Management for Social Computing.

**Two best paper awards:** with a former post-doc J. Rodrigues-Jr, at IEEE International Symposium on Computer-Based Medical Systems (CBMS'20), and with a former PhD student, B. Omidvar-T, at IEEE International Conference on Data Science and Advanced Analytics (DSAA'18).

## SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

**PhDs since 2022 (3):** S. Eleftheraki on adaptive recommendations, A. Mandamadiotis on data exploration (ATHENA Institute, Greece), A. Rio on long-term fairness (Huawei Paris, France).

**Graduated PhDs (13):** N. Bouarour, funded by the Multidisciplinary Institute for Artificial Intelligence (MIAI) on recommendations, T. Kletti, funded by Naver Labs Europe, on fairness, B. Omidvar-Tehrani (U. Grenoble Alpes → Amazon), S. Kleisarchaki (U. Grenoble Alpes → CEA), J. Pilourdault (U. Grenoble Alpes → Salesforce), M. Kirchgessner (U. Grenoble Alpes → CTO REG-MIND), S. Thirumuruganathan (UT Arlington → QCRI), R. M. Borromeo (Keio U. → U. of the Philippines), J. Stoyanovich (Columbia U. → NYU), A. Marian (Columbia U. → Rutgers U.), S. B. Roy (UT Arlington → NJIT), Y. Xu (UC San Diego → CEO GraphSQL), A. Chawla (U. British Columbia → Microsoft Research), M. De Choudhury (Arizona State U. → Georgia Tech), M. Das (UT Arlington → Visa Research). All US academics (Stoyanovich, Marian, Roy, De Choudhury) received NSF CAREER awards and are tenured.

**Post-docs (5) since 2012:** I. Benouaret (MIAI → EPITA), Y. Patil (INODE H2020 → Amazon), B. Omidvar-Tehrani (MIAI chair → Amazon), Son. T. Mai (project LIFE U. Grenoble Alpes → Queen's U. Belfast, UK), J. Rodrigues-Jr (project LIFE U. Grenoble Alpes, → U. Sao Paulo, Brazil).

**Research engineers (3) 2012-2023:** S. Da Col (MIAI → ST Microelectronics), A. Personnaz (INODE H2020 → Openclassrooms), S. Mishra (Datalyse project → Amazon).

## INSTITUTIONAL RESPONSIBILITIES

[2021-2026] Deputy Director of Laboratoire d'Informatique de Grenoble, in charge of the scientific strategy of the lab (about 500 people, 22 research teams, half are professors and researchers).

[2022-2025] Member of the CoNRS CID 55, the CNRS interdisciplinary hiring committee on "Science and Data".

[2019-2025] Vice-President of the the Very Large Data Base (VLDB) Endowment.

## MEMBERSHIPS OF SCIENTIFIC SOCIETIES

[2019-2025] Member of the Steering Committee of the Swiss National Fund NRP 75.

[2018-2026] Member of the Scientific Advisory Board of the Max Planck Institute of Informatics.

[2018-2024] Member of the Scientific Advisory Board of the University of Helsinki.

[2016-2019] Member and chair of the ACM Grace Murray Hopper Award committee.

[2010-2015] Member of the Board of Trustees of the Very Large Data Base (VLDB) Endowment.

[2010-2012] Member of the ACM SIGMOD Executive Committee.

## RECENT/UPCOMING CONFERENCE CHAIRING AND EDITORIAL WORK

I was the first woman Editor-In-Chief of the Very Large DataBase (VLDB) Journal [2014-2020] and the first European woman PC chair of the VLDB conference'18 and the ACM Special Interest Group on Management of Data SIGMOD'23. I was Editor of ACM Transactions on Database Systems (TODS) and ACM Transactions in Data Science (TDS). I chaired the most prestigious international conferences in Databases and the Web:

- Program Chair: ACM SIGMOD 2023, IEEE ICDE 2021, VLDB 2018, EDBT 2014.
- Associate Editor: SIGMOD 2021.
- Demonstrations Chair: VLDB 2024, EDBT 2021, ACM SIGMOD 2020.
- Test of Time Chair: EDBT 2023.
- Tutorial Chair: EDBT/ICDT 2025 and 2026, ER 2025, TWC 2022, IEEE ICDE 2019, WWW 2018.
- Panel Chair: VLDB 2022.
- Member of the Ethics board of NeurIPS 2022.
- Diversity Chair: VLDB 2021 and 2022.
- Workshop chair: IEEE ICDE 2025, HILDA 2020, WWW 2019, VLDB 2016.
- Associate Editor of ACM SIGMOD 2021 and 2016 and ACM SIGIR 2012.
- General Chair for ACM WomENCourage 2019.
- Industry Chair for ACM SIGMOD 2015.

## MAJOR COLLABORATIONS

With Hassan Khosravi and Shazia Sadiq (University of Queensland, Australia), I am studying data management problems that arise in education. With Shady Elbassuoni (American University in Beirut, Lebanon), I developed theoretical frameworks and an open-source plugin, to assess discrimination on TaskRabbit and Google Job Search. With Senjuti Basu Roy (New Jersey Institute of Technology, USA), we developed CrowdCur, a transparency tool for workers on crowdsourcing. With Atsuyuki Morishima (U. of Tsukuba, Japan), we developed Crowd4U, an academic crowdsourcing marketplace. I co-taught a course on crowd data sourcing with Tova Milo (Tel Aviv U., Israel) at the EDBT Summer School in 2017 and I collaborated with her lately on exploratory data analysis. I have an ongoing collaboration with medical doctors at the University hospital in Grenoble, in particular with Prof. Jean-Louis Pépin with whom we built several tools leveraging the latest machine learning approaches to run analytics and predictions on patient data.

## INDUSTRY IMPACT

I hold 18 granted patents. My work had major industrial impact as AT&T's W3C representative and resulted in Web standards for XML and a mobile travel planning product at Yahoo! featured in the Wall Street Journal. At QCRI, I established a collaboration with MIT on analyzing sentiment in user-generated content and on recommending news. Both are used within Al Jazeera. I was scientific director of Datalyse, a big French project involving major retailers. We developed a Big Data stack to analyze customer behavior. In [2018-2020], I developed contextual recommendation algorithms and deployed them with TOTAL to provide promotions at gas stations.