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Amélie Marian

Amélie MARIAN

Curriculum Vitae
May 2025

Research Interests

Accountable and Fair Decision-making Systems, Transparent Democracy, Explainable Rankings, Personal Digital Traces, Data Integration, Ranked-choice Voting.

Professional Appointments

2005–present **Rutgers University**, *Computer Science Department*.
- 2012–present: **Associate Professor**
- 2014–2020: **Undergraduate Director**
- 2005–2012: **Assistant Professor**

2000-2005 **Columbia University**, *Computer Science Department*, Graduate Research Assistant.

2004 **AT&T Research Labs**, Summer Intern.

1999-2000 **INRIA Rocquencourt**, *France*, Project VERSO, Research Assistant.

1998-2000 **Pôle Universitaire Léonard de Vinci**, *Paris La Defense, France*, Instructor.

Visiting Positions

2025 **École normale supérieure (ENS-PSL)**, *France*, Projet Valda, Visiting Professor.

2024 **Cornell Tech**, *Digital Life Initiative*, Visiting Researcher.

2023-2024 **New York University**, *Center for Responsible AI*, Visiting Faculty.

2009 **INRIA Saclay**, *France*, Project WebDam, Visiting Researcher.

Education

2005 **Ph.D., Computer Science** , *Columbia University*, NY, USA.
Evaluation of Top-k Queries over Structured and Semi-structured Data
Advisor: Professor Luis Gravano

1999 **D.E.A. (M.Sc. equivalent), Computer Science**, *Université Paris-IX Dauphine*, France.
Détection de Changements et Mises-à-jour Incrémentales dans un Système de Vues Actives pour XML
Advisor: Serge Abiteboul

1998 **Maîtrise (B.Sc. equivalent), Computer Science and Management**, *Université Paris-IX Dauphine*, France.

Awards and Grants

2022-2025 **NSF MCA**, *PI*, SES-22-18975, $455,661.
Transparent and Accountable Decision Systems

2018 **Rutgers Research Council**, $1,130.
Connecting, Managing, and Understanding Personal Digital Traces

2010-2014 **NSF CDI-Type I**, *co-PI, with Noémie Elhadad, Columbia Biomedical Informatics*, BCS-10-27801, $729,556 ($302,268 for Rutgers side).
Gaining Knowledge from Other Patients: Structuring and Searching the content of Health-Related Web Posts

2009-2014 **NSF CAREER Award**, *PI*, IIS-08-44935, $499,759.
Relaxed Content and Structure Queries over Heterogeneous Data

2012 **Google Research Award**, *with Thu D. Nguyen, Rutgers University*, $62,500.
Remembrance of Data Past: Using Context in Personal Information Search

2010 **Google Research Award**, *with Noémie Elhadad, Columbia Biomedical Informatics*, $77,000 ($25,000 for Rutgers side).
PERSEUS: Structuring and Searching the Content of Health-Related Web Posts

2008 **Google Research Award**, *with Noémie Elhadad, Columbia Biomedical Informatics*, $85,000 ($60,000 for Rutgers side).
URSA: Understanding User Reviewing Patterns

2006 **Microsoft Research Award**, $48,000.
The Truth Is out There: Aggregating Answers From Multiple Web Sources

Invited Talks

2025 **Pursuing Transparency and Accountability in Data and Decision Processe**, *École normale supérieure (ENS-PSL)*.

2025 **Implementing Trustworthy Ranked Choice Voting Elections**, *LAMSADE - Université Paris Dauphine*.

2024 **Explainable Disparity Compensation for Fair Ranking**, *Northeastern University Data Lab*.

2023 **Pursuing Transparency and Accountability in Data and Decision Processes**, *Barnard Computer Science Seminar*.

2023 **Implementing Trustworthy Ranked Choice Voting Elections**, *NYU Responsible AI*.

2019 **Algorithms in the Wild: A case for Transparency, Accountability and Error Mitigation**, *Social Responsibility of Algorithms - SRA 2019*.

2019 **Explainable Decision-Making**, *Panel, EARS Workshop at SIGIR 2019*.

2019 **The NYC School Matching Algorithm**, *NYC Community Education Council District 2*.

2018 **DigitalSelf: Connecting, Understanding and Managing Personal Digital Traces**, *New York DB Day 2018*.

2018 **Understanding and Managing Connected Personal Digital Traces**, *Modas workshop on Web Data Management*.

2017 **Small Data**, *Panel, ICDE 2017*.

2016 **A la recherche des données perdues: gestion des informations numériques personnelles**, *Keynote, Colloque TRANSLIT*.

2016 **Managing your Personal Information**, *Dagstuhl Seminar on "Data, Responsibly"*.

2015 **Accommoder les miettes de donnees : Ingredients, Recettes et Astuces**, *Keynote, BDA 2015*, with Arnaud Sahuguet.

2015 **Personal Information Systems**, *Tutorial, EDBT/ICDT Conference*, with Serge Abiteboul.

2015 **Personal Information Search and Recovery**, *Keynote, 3rd Singaporean-French Symposium*.

2013 **Searching Web Forums**, *WebDam workshop on Web Data Management*.

2012 **Remembrance of Data Past**, *WebDam-Modas workshop on Web Data Management*.

2011 **Searching Data with Substance and Style**, *Technicolor Research Center*.

2009–2010 **Beyond the Stars: Improving Rating Predictions using Review Text Content**, *University of Pennsylvania; I.N.R.I.A. Gemo; LIP6, Université Pierre et Marie Curie Paris*.

2008 **Multi-Dimensional Search for Personal Information Systems**, *Dagstuhl Seminar on Ranked Query Processing*.

2007 **The Truth is Out There: Aggregating Answers from Multiple Web Sources**, *Microsoft Search Summit*.

2006–2007 **Improving Query Results using Answer Corroboration**, *I.N.R.I.A. Gemo; Ask.com; Brooklyn Polytechnic; NJIT*.

2006 **Ranking and Scoring XML Data**, *LAMSADE, Université Paris Dauphine; LIP6, Université Pierre et Marie Curie Paris*.

2005 **Structure and Content Scoring for XML**, *DIMACS Mixer Series*.

2005 **Evaluating Top-k Queries over Structured and Semi-structured Data**, *University of Connecticut; IBM Watson; AT&T Labs Research; Rutgers University*.

Publications

Manuscripts and Preprints

[M1] Abraham Gale, Amélie Marian, and David Pennock. Post-match error mitigation for deferred acceptance. *arXiv preprint arXiv:2409.13604*, 2024.

Papers in Refereed Conferences and Workshops

[C1] Qishen Han, Amélie Marian, and Lirong Xia. Determining winners in elections with absent votes. *To appear in Proceedings of the 33rd International Joint Conference on Artificial Intelligence* ***IJCAI'24***, 2024.

[C2] Abraham Gale and Amélie Marian. Explainable disparity compensation for efficient fair ranking. In *Proceedings of the 40th International Conference on Data Engineering,* ***ICDE'24***. IEEE Computer Society, 2024.

[C3] Amélie Marian. Algorithmic transparency and accountability through crowdsourcing: A study of the NYC school admission lottery. In *ACM Conference on Fairness, Accountability, and Transparency.* ***FAccT'23***, 2023.

[C4] Varvara Kalokyri, Alexander Borgida, and Amélie Marian. One of us: a multiplayer web-based game for digital evidence acquisition of scripts through crowdsourcing. In *Proceedings of the*

2023 ACM SIGIR Conference on Human Information Interaction and Retrieval ***CHIIR'23***, 2023.

[C5] Alborz Jelvani and Amélie Marian. Identifying possible winners in ranked choice voting elections with outstanding ballots. In *Proceeding of the 10th AAAI Conference on Human Computation and Crowdsourcing* ***HCOMP'22***, 2022.

[C6] Schuchang Liu, Yingqiang Ge, Shuyuan Xu, Yongfeng Zhang, and Amélie Marian. Fairness-aware federated matrix factorization. In *Proceeding of the 16th ACM Conference on Recommender Systems* ***RecSys'22***, 2022.

[C7] Varvara Kalokyri, Alexander Borgida, and Amélie Marian. Supporting human memory by reconstructing personal episodic narratives from digital traces. In *Proceeding of the 16th International AAAI Conference on Web and Social Media* ***ICWSM'22***, 2022.

[C8] Daniela Vianna and Amélie Marian. A frequency-based learning-to-rank approach for personal digital traces. In *Proceedings of the 55th Hawaii International Conference on System Sciences* ***HICSS'22***, 2022.

[C9] Shuchang Liu, Shuyuan Xu, Wenhui Yu, Zuohui Fu, Yongfeng Zhang, and Amélie Marian. Fedct: Federated collaborative transfer for recommendation. In *Proceedings of the 44th International ACM SIGIR Conference on Research and Development in Information Retrieval* ***SIGIR'21***, 2021.

[C10] Abraham Gale and Amélie Marian. Explaining monotonic ranking functions. *Proceedings of the VLDB Endowment* ***VLDB'21***, 14(4):640–652, 2020.

[C11] Alexander Borgida, Varvara Kalokyri, and Amélie Marian. Description logics and specialization for structured BPMN. In *Business Process Management Workshops - BPM 2019 International Workshops, Vienna, Austria, September 1-6, 2019, Revised Selected Papers*, volume 362 of *Lecture Notes in Business Information Processing*, pages 19–31. Springer, 2019.

[C12] Daniela Vianna, Varvara Kalokyri, Alexander Borgida, Thu D. Nguyen, and Amélie Marian. Searching heterogeneous personal digital traces. *Association for Information Science and Technology (ASIS&T)*, 2019.

[C13] Abraham Gale and Amélie Marian. Metrics for explainable ranking functions. *EARS International Workshop on ExplainAble Recommendation and Search at SIGIR, 2019*, 2019.

[C14] Varvara Kalokyri, Alexander Borgida, and Amélie Marian. YourDigitalSelf: A personal digital trace integration tool. (Demonstration). In *Proceedings of the 27th ACM International Conference on Information and Knowledge Management,* ***CIKM'18****, Torino, Italy, October 22-26, 2018*, pages 1963–1966. ACM, 2018.

[C15] Varvara Kalokyri, Alexander Borgida, Amélie Marian, and Daniela Vianna. Semantic modeling and inference with episodic organization for managing personal digital traces. In *ODBASE OTM Confederated International Conferences*, pages 273–280. Springer, 2017.

[C16] Varvara Kalokyri, Alexander Borgida, Amélie Marian, and Daniela Vianna. Integration and exploration of connected personal digital traces. In *Proceedings of the ExploreDB'17, Chicago, IL, USA, May 19, 2017*, pages 3:1–3:6. ACM, 2017.

[C17] Minji Wu and Amélie Marian. Corroborating facts from affirmative statements. In *Proceedings of the 17th International Conference on Extending Database Technology,* ***EDBT'14****, Athens, Greece, March 24-28, 2014*, pages 157–168.

[C18] Gayatree Ganu and Amélie Marian. Personalizing forum search using multidimensional random walks. In *Proceedings of the Eighth International Conference on Weblogs and Social Media,* ***ICWSM'14****, Ann Arbor, Michigan, USA, June 1-4, 2014*. The AAAI Press, 2014.

[C19] Daniela Vianna, Alicia-Michelle Yong, Chaolun Xia, Amélie Marian, and Thu D. Nguyen. A tool for personal data extraction. In *Workshops Proceedings of the 30th International Conference on Data Engineering Workshops, (IIWeb'14) ICDE 2014, Chicago, IL, USA, March 31 - April 4, 2014*, pages 80–83. IEEE Computer Society, 2014.

[C20] Gayatree Ganu and Amélie Marian. One size does not fit all: multi-granularity search of web forums. In *22nd ACM International Conference on Information and Knowledge Management,* ***CIKM'13****, San Francisco, CA, USA, October 27 - November 1, 2013*, pages 9–18. ACM, 2013.

[C21] Wei Wang, Amélie Marian, and Thu D. Nguyen. Unified structure and content search for personal information management systems. In ***EDBT'11****, 14th International Conference on Extending Database Technology, Uppsala, Sweden, March 21-24, 2011, Proceedings*, pages 201–212. ACM, 2011.

[C22] Émilien Antoine, Alban Galland, Kristian Lyngbaek, Amélie Marian, and Neoklis Polyzotis. Social networking on top of the webdamexchange system. (Demonstration). In *Proceedings of the 27th International Conference on Data Engineering,* ***ICDE'11****, April 11-16, 2011, Hannover, Germany*, pages 1300–1303. IEEE Computer Society, 2011.

[C23] Serge Abiteboul, Sihem Amer-Yahia, Alban Galland, Amélie Marian, and Pierre Senellart. Birds of a tag flock together. In *Proceedings of the Third Annual Workshop on Search in Social Media (SSM'10)*, 2010.

[C24] Minji Wu, Laure Berti-Équille, Amélie Marian, Cecilia M. Procopiuc, and Divesh Srivastava. Processing top-k join queries. *Proceedings of the VLDB Endowment* ***VLDB'10***, 3(1):860–870, 2010.

[C25] Alban Galland, Serge Abiteboul, Amélie Marian, and Pierre Senellart. Corroborating information from disagreeing views. In *Proceedings of the Third International Conference on Web Search and Web Data Mining,* ***WSDM'10****, New York, NY, USA, February 4-6, 2010*, pages 131–140. ACM, 2010.

[C26] Laure Berti-Équille, Anish Das Sarma, Xin Dong, Amélie Marian, and Divesh Srivastava. Sailing the information ocean with awareness of currents: Discovery and application of source dependence. In ***CIDR'09****, Fourth Biennial Conference on Innovative Data Systems Research, Asilomar, CA, USA, January 4-7, 2009, Online Proceedings*. www.cidrdb.org, 2009.

[C27] Gayatree Ganu, Noemie Elhadad, and Amélie Marian. Beyond the stars: Improving rating predictions using review text content. In *12th International Workshop on the Web and Databases, WebDB 2009, Providence, Rhode Island, USA, June 28, 2009*, 2009.

[C28] Christopher Peery, Wei Wang, Amélie Marian, and Thu D. Nguyen. Multi-dimensional search for personal information management systems. In ***EDBT'08**, 11th International Conference on Extending Database Technology, Nantes, France, March 25-29, 2008, Proceedings*, volume 261 of *ACM International Conference Proceeding Series*, pages 464–475. ACM, 2008.

[C29] Christopher Peery, Wei Wang, Amélie Marian, and Thu D. Nguyen. Fuzzy multi-dimensional search in the wayfinder file system. In *Proceedings of the 24th International Conference on Data Engineering, **ICDE'08**, April 7-12, 2008, Cancún, Mexico*, pages 1588–1591. IEEE Computer Society, 2008.

[C30] Minji Wu and Amélie Marian. Corroborating answers from multiple web sources. In *Tenth International Workshop on the Web and Databases, WebDB 2007, Beijing, China, June 15, 2007*, 2007.

[C31] Kenneth A. Ross, Peter J. Stuckey, and Amélie Marian. Practical preference relations for large data sets. In *Proceedings of the 23rd International Conference on Data Engineering Workshops, (DBRank '07) ICDE 2007, 15-20 April 2007, Istanbul, Turkey*, pages 229–236. IEEE Computer Society, 2007.

[C32] Yannis Kotidis, Amélie Marian, and Divesh Srivastava. Circumventing data quality problems using multiple join paths. In *Proceedings of the First Int'l VLDB Workshop on Clean Databases, CleanDB 2006, September 11, 2006, Seoul, Korea (Co-located with VLDB 2006)*, 2006.

[C33] Sihem Amer-Yahia, Nick Koudas, Amélie Marian, Divesh Srivastava, and David Toman. Structure and content scoring for XML. In *Proceedings of the 31st International Conference on Very Large Data Bases **VLDB'05**, Trondheim, Norway, August 30 - September 2, 2005*, pages 361–372. ACM, 2005.

[C34] Amélie Marian, Sihem Amer-Yahia, Nick Koudas, and Divesh Srivastava. Adaptive processing of top-k queries in XML. In *Proceedings of the 21st International Conference on Data Engineering, **ICDE'05**, 5-8 April 2005, Tokyo, Japan*, pages 162–173. IEEE Computer Society, 2005.

[C35] Amélie Marian and Jérôme Siméon. Projecting XML documents. In *Proceedings of 29th International Conference on Very Large Data Bases, **VLDB'03**, Berlin, Germany, September 9-12, 2003*, pages 213–224. Morgan Kaufmann, 2003.

[C36] Mary F. Fernández, Jérôme Siméon, Byron Choi, Amélie Marian, and Gargi Sur. Implementing xquery 1.0: The galax experience. (Demonstration. In *Proceedings of 29th International Conference on Very Large Data Bases, **VLDB'03**, Berlin, Germany, September 9-12, 2003*, pages 1077–1080. Morgan Kaufmann, 2003.

[C37] Gregory Cobena, Serge Abiteboul, and Amélie Marian. Detecting changes in XML documents. In *Proceedings of the 18th International Conference on Data Engineering, **ICDE'02** San Jose, CA, USA, February 26 - March 1, 2002*, pages 41–52. IEEE Computer Society, 2002.

[C38] Nicolas Bruno, Luis Gravano, and Amélie Marian. Evaluating top-k queries over web-accessible databases. In *Proceedings of the 18th International Conference on Data Engineering, **ICDE'02** San Jose, CA, USA, February 26 - March 1, 2002*, pages 369–380. IEEE Computer Society, 2002.

[C39] Amélie Marian, Serge Abiteboul, Gregory Cobena, and Laurent Mignet. Change-centric management of versions in an XML warehouse. In ***VLDB'01***, *Proceedings of 27th International Conference on Very Large Data Bases, September 11-14, 2001, Roma, Italy*, pages 581–590. Morgan Kaufmann, 2001.

[C40] Gregory Cobena, Serge Abiteboul, and Amélie Marian. Detecting changes in XML documents. In *17èmes Journées Bases de Données Avancées, BDA 2001, 29 octobre - 2 novembre, Agadir, Maroc, Actes (Informal Proceedings)*, 2001.

[C41] Amélie Marian, Serge Abiteboul, and Laurent Mignet. Chance-centric management of versions in an XML warehouse. In *16èmes Journées Bases de Données Avancées, BDA 2000, 24-27 octobre 2000, Blois, France, Actes (Informal Proceedings)*, 2000.

[C42] Laurent Mignet, Serge Abiteboul, Sébastien Ailleret, Bernd Amann, Amélie Marian, and Mihai Preda. Acquiring XML pages for a webhouse. In Anne Doucet, editor, *16èmes Journées Bases de Données Avancées, BDA 2000, 24-27 octobre 2000, Blois, France, Actes (Informal Proceedings)*, 2000.

[C43] Serge Abiteboul, Vincent Aguilera, Sébastien Ailleret, Bernd Amann, Sophie Cluet, Brendan Hills, Frédéric Hubert, Jean-Claude Mamou, Amélie Marian, Laurent Mignet, Tova Milo, Cassio Souza dos Santos, Bruno Tessier, and Anne-Marie Vercoustre. XML repository and active views demonstration. In ***VLDB'99***, *Proceedings of 25th International Conference on Very Large Data Bases, September 7-10, 1999, Edinburgh, Scotland, UK*, pages 742–745. Morgan Kaufmann, 1999.

Papers in Refereed Journals

[J1] Gayatree Ganu, Yogesh Kakodkar, and Amélie Marian. Improving the quality of predictions using textual information in online user reviews. *Inf. Syst.*, 38(1):1–15, 2013.

[J2] Wei Wang, Christopher Peery, Amélie Marian, and Thu D. Nguyen. Efficient multidimensional fuzzy search for personal information management systems. *IEEE Trans. Knowl. Data Eng.*, 24(9):1584–1597, 2012.

[J3] Minji Wu and Amélie Marian. A framework for corroborating answers from multiple web sources. *Inf. Syst.*, 36(2):431–449, 2011.

[J4] Surajit Chaudhuri, Luis Gravano, and Amélie Marian. Optimizing top-k selection queries over multimedia repositories. *IEEE Trans. Knowl. Data Eng.*, 16(8):992–1009, 2004.

[J5] Amélie Marian, Nicolas Bruno, and Luis Gravano. Evaluating top-k queries over web-accessible databases. *ACM Trans. Database Syst.*, 29(2):319–362, 2004.

Book Chapters

[B1] Amélie Marian. Top-k selection queries on multimedia datasets. In Ling Liu and M. Tamer Özsu, editors, *Encyclopedia of Database Systems, Second Edition*. Springer, 2018 and 2009.

[B2] Amélie Marian, Ralf Schenkel, and Martin Theobald. Ranked XML processing. In Ling Liu and M. Tamer Özsu, editors, *Encyclopedia of Database Systems, Second Edition*. Springer, 2018 and 2009.

[B3] Amélie Marian and Arnaud Sahuguet. Reconstitution des données personnelles. In Mokrane Bouzeghoub and Rémy Mosseri, editors, *Les big data à découvert*. CNRS, 2017.

Invited Papers

[I1] Varvara Kalokyri, Alexander Borgida, and Amélie Marian. Episodic memory integration of personal data in YourDigitalSelf. *IEEE Data Eng. Bull.*, 47(4):30–42, 2023.

[I2] Amélie Marian and Minji Wu. Corroborating information from web sources. *Data Engineering*, 34(3):11–17, 2011.

[I3] Amélie Marian and Wei Wang. Flexible querying of personal information. *IEEE Data Eng. Bull.*, 32(2):20–27, 2009.

Online Publications

[O1] Amélie Marian. Explaining the NYC School Admission Lottery, 2021-2025. **(220K views)**
Part 1: Decoding the NYC School Admission Lottery Numbers
`https://medium.com/p/bae7148e337d`
Part 2: Gaining Insights from the NYC School Admission Lottery Numbers
`https://medium.com/p/42dd9a98b115`
Part 3: NYC High School Chances of Admission Predictions
`https://medium.com/p/cb15fd4b5655`
Results from the NYC School Admission Lottery Surveys
2022: `https://medium.com/p/c2befbc20da6`
2023: `https://medium.com/p/260acc6fa4e6`
2024: `https://medium.com/p/7b1a6910987c`
2025: `https://medium.com/p/cd12340b3364`.

[O2] Amélie Marian. Demystifying the NYC School Matching Algorithm (Videos), 2021. **(15K views)**
Part 1: How the algorithm works
`https://www.youtube.com/watch?v=7n-bvvD6ZEc&t=9s`
Part 2: Lotteries and Set asides
`https://www.youtube.com/watch?v=qqmgymzxVKM&t=1s`.

[O3] Amélie Marian. Ranked Choice Voting. **(1K views)**
Tabulating Partial Ranked Choice Voting Results, April 2021
`https://medium.com/p/23e53b6dec63`
Ranked Choice Voting - How does it work? (Video), April 2021
`https://www.youtube.com/watch?v=8vsVTeP0qQU&t=1s`
Reporting Ranked Choice Voting Election Results with Outstanding Ballots, September 2023
`https://medium.com/p/607d653ce21b`.

[O4] Arnaud Sahuguet and Amélie Marian. Helping School Reopening Using Operation Research, June and September 2020.
Part 1: `https://medium.com/p/cfbb421fefde`
Part 2: `https://medium.com/p/572c42de60cc`.

[O5] Melanie Hershel, Yannis Tzitzikas, K.S. Candan, and Amélie Marian. Exploratory search: New

name for an old hat? SIGMOD Blog, June 2014.
https://wp.sigmod.org/?p=1183.

Teaching Experience

Computer Science Department, Rutgers University

198:210 Data Management for Data Science, Fall 2024.

198:345 Algorithms in Society, Fall 2023.

198:445 Topics in Computer Science: Algorithms in the Wild (new course), Fall 2022.
Permanently added to the Rutgers CS list of courses as "198:345 Algorithms in Society"

198:142 Data 101: Data Literacy, Fall 2022, Fall 2021, Spring 2020.
Rutgers Signature Course

198:437 Database Systems Implementation (Undergraduate level), Fall 2018, 2016, 2015, 2014, Spring 2012.

198:539 Database Systems Implementation (Graduate level), Fall 2016, 2015, 2014.

198:442 Topics in Computer Science: Systems Aspects of Information Management (new course), Fall 2010, Spring 2009.
Permanently added to the Rutgers CS list of courses as "198:437 Database Systems Implementation"

198:541 Database Systems (Graduate level), Spring 2017, 2016, 2014, 2010, 2008, 2007, 2006.

198:336 Principles of Information and Data Management, Fall 2012, 2011, 2006.

198:673 Web Data Management (Graduate Level), Fall 2008.

198:500 Readings in Data Management, Light Seminar (Graduate level), Spring 2008, Fall 2006, Spring 2006.

Student Advising

Current Ph.D. Advisees

since 2023 **Naina Chaturverdi**.

since 2024 **Doğa Diren**.

since 2024 **Cory Margarucci**.

since 2024 **Daniel Ojeda**.

Graduated Ph.D. Advisees

October 2024 **Abraham (Yehuda) Gale**, First Employment: Assistant Teaching Professor, Rutgers University.

October 2022 **Varvara Kalokyri**, *co-advised with Alex Borgida*, First Employment: Researcher, Foundation of Research and Technology-Hellas (FORTH), Crete.

October 2022 **Shuchang Liu**, *co-advised with Yongfeng Zhang*, First Employment: Kuaishou.

October 2019 **Daniela Vianna**, First Employment: PostDoc, Federal University of Amazonas, Brazil.

October 2015 **Minji Wu**, First Employment: Microsoft.

January 2014 **Gayatree Ganu**, First Employment: Facebook.

October 2010 **Wei Wang**, *co-advised with Thu Nguyen*, First Employment: EA.

Ph.D. Defense Committee

2024 Abraham Gale (Chair)
2024 Abdulaziz Abdulzaini
2022 Shuchang Liu (Chair)
2019 Daniela Vianna (Chair)
2017 Long Le
2014 Vukosi Marivate
2013 Imen Ben Dhia, Telecom ParisTech
2010 Smriti Bhagat
2010 Geetha Jagannathan
2007 Irina Rozenbaum
2024 Yunqi Li
2022 Varvara Kalokyri (Chair)
2018 Matt Mitsui
2015 Minji Wu (Chair)
2013 Gayatree Ganu (Chair)
2012 Nora Derouiche, Telecom ParisTech
2010 Wei Wang (Chair)
2009 Christopher Peery
2007 Vladislav Shkapenyuk

Professional Activities

Public Scholarship

Algorithms in the Wild, *Blog posts*, Wrote on the behaviors on public decision-making algorithms, `https://medium.com/algorithms-in-the-wild`.
April 2024: Received an ***award from NYC Citywide Council on High Schools recognizing leadership and service on behalf of New York City Public School Families*** for my work on pushing for more transparency and accountability in NYC HS admissions.

NYSIP-PLC Team, *Volunteer member of the design team for the NYC Department of Education District 2 New York State Integration Plan*, The purpose of the plan is to increase student achievement in New York State Title I Schools, by encouraging greater integration by race and ethnicity, as well as socioeconomic, special education, and English Language Learner (ELL) status, Grant awarded in October 2020 ($2,688,562).
Worked on the school composition component part of the grant to improve diversity in school admissions.

Journals

Area Editor, *Information Systems 2012–2016*.

Journal Referee, *Political Science 2024; DAPD 2009; VLDB Journal, 2009, 2008, 2007,2005; IS 2009, 2008, 2007, 2006; DKE 2007; ACM TODS, 2010, 2009, 2006; ACM TOMCCAP, 2006; IEEE TKDE, 2009, 2006, 2005, 2004; ACM TOIT, 2004; Journal of Computer and System Sciences, 2001*.

Conferences

Tutorial Chair, *EDBT 2022, EDBT 2016*.

Workshop co-Chair, *WebDB 2011, DBRank 2010, VLDB Ph.D. Workshop 2010*.

Publicity Chair, *SIGMOD 2013*.

Workshops co-Chair, *WWW 2010*.

Demonstrations Co-chair, *CIKM 2012*.

Co-organizer, *Third New York Area DB/IR day, April 2006*.

Senior Program Committees, *SIGMOD 2016, WSDM 2013*.

Program Committees, *PVLDB 2026, EEAMO 2025, PVLDB 2025, AEIS 2024, EEAMO 2024, TheWebConference 2024, AEIS 2023, PVLDB 2023, EEAMO 2022, EDBT 2022, EEAMO 2021, AiDM 2021, EAAI 2021 (Student Competition), VLDB 2020 (Demonstrations), EDBT 2019, CIKM 2018, WebDB 2018, VLDB'18 PhD Workshop, ExploreDB'17, ICDE '16, SIGMOD 2015, VLDB 2014/PVLDB, EDBT 2014, BigData 2014, VLDB 2013/PVLDB, WSDM 2013, DBRank 2012, BDA 2012, ER 2012, SSDBM 2012, WSDM'2012, WWW 2012, EDBT 2012, ESAIR 2011, EDBT 2011, CIKM 2010) (Database Track), WebDB 2010, EDBT 2010, KEYS 2010, WebDB 2009, EC 2009, ECIR 2009 Workshop on Information Retrieval over Social Networks, WSCD 2009, MPREF 2008, DBRank 2008, VLDB 2008, PIKM 2007, VLDB 2007 (Infrastructure for Information Systems Track), SIGMOD 2007 (Demonstrations), DBRank 2007, WIDM 2006, CIKM 2006 (Database Track), XSym 2006*.

Conference Referee, *PODS 2006, SIGMOD 2005, SIGMOD 2004, SIGMETRICS 2004, ICDE 2004, SIGMOD 2002, and VLDB 2002 conference*.

Funding Agencies

Comités de selection et d'évaluation (Selection and Evaluation Committees), *Nouveaux Cursus Universitaires*, ANR (France) 2023, 2022, 2018.

Grant Panel, *NSF IIS, 2016, 2014, 2013, 2010, 2009, 2007*.

University Service

Rutgers University

2022–2024 **Advisory Committee for Appointments and Promotions**, *School of Arts and Sciences*.

2023–2024 **Rutgers Connection Network Faculty Mentoring Program**, Mentor.

Computer Science Department, Rutgers University

2022- **Hiring Committee**, also 2009.

2023- **Academic Planning Committee**, also 2013-2014.

2023- **Graduate Committee**, also 2008-2012 and 2005-2006.

2024- **Awards Nomination Committee**.

2021–2022 **MS Admissions Committee**.

2014–2020 **Undergraduate Director**.

2014–2020 **Executive Committee**.

2014–2020 **Undergraduate Advising Committee (Chair)**.

2012–2020 **Undergraduate Committee (Chair 2014–2020)**.

2010 **Rutgers Day Coordinator**.

2006–2008 **Graduate Admissions Committee**.

Computer Science Department, Columbia University

2000–2004 **Ph.D. admissions Committee (Student member)**.

Université Paris Dauphine

1997–1998 **Elected Student Representative, MIAGE Council**.