



## **PERSONAL DETAILS**

|                           |   |
|---------------------------|---|
| <i>Name &amp; Surname</i> | Athena Vakali   |
| <i>ORCID</i>              | <a href="https://orcid.org/0000-0002-0666-6984">https://orcid.org/0000-0002-0666-6984</a> |
| <i>Date of birth</i>      | 14/08/1963  |
| <i>e-mail</i>             | <a href="mailto:avakali@csd.auth.gr">avakali@csd.auth.gr</a>                              |
| <i>Telephone number</i>   | (+30) 23110998415   |
| <i>Nationality</i>        | Greek   |

## **Education**

|           |  |
|-----------|--|
| 1993-1997 | PhD degree in Informatics, School of Informatics, Aristotle University, Greece (excellence Degree, grade 10 in 1-10 scale)     |
| 1986-1988 | MSc degree in Computer Science, Department of Computer Science, Purdue University, USA (Fulbright scholarship for USA studies) |
| 1981-1985 | BSc degree in Mathematics, Mathematics Department, Aristotle University, Greece (excellence Degree, grade 8,85 in 1-10 scale)  |

## **Current Positions**

|              |   |
|--------------|---|
| 2023-present | Academic co-Founder of Exanta   |
| 2017-present | Director of Data and Web Science (Datalab) research lab   |
| 1997-present | Full Professor, Faculty member, Vice Chair (2017-2020), School of Informatics, Aristotle University of Thessaloniki, Greece |

## **Previous Positions**

|           |   |
|-----------|---|
| 1993-1997 | IT technical administrator staff, School of Informatics, Aristotle University of Thessaloniki, Greece     |
| 1990-1993 | Computing division director, Research Programs Office, Aristotle University of Thessaloniki, Greece       |
| 1988-1990 | Educator in Computing and Mathematics, American College Anatolia, Thessaloniki, Greece                    |
| 1986-1988 | Teaching and Research assistant (during MSc studies), Computer Science Department, Purdue University, USA |

## **SCIENTIFIC EXCELLENCE**

### **Research & Achievements**

Prof. A. Vakali has established herself as a leading figure in the fields of web and data science, with a pronounced focus on addressing fairness and bias in artificial intelligence. Her career, marked by a relentless

pursuit of excellence and innovation, spans numerous prestigious roles, including a tenure as a Full Professor at the School of Informatics, Aristotle University of Thessaloniki. Her scholarly work, which includes co-authoring five books, over fifteen book chapters, and more than 60 high-impact journal articles, highlights her profound impact on the academic community. Her extensive publication record is further evidenced by an impressive 11,156 citations, reflecting a robust h-index of 44 and an i10-index of 126.

Prof. A. Vakali's recent projects, such as "RESET: Redesigning Equality and Scientific Excellence Together" under the EU's Horizon 2020 program, underscore her commitment to integrating ethical standards into technological advancements. This dedication to fairness is further manifested in her substantial contributions to seminal publications and international conferences, addressing critical issues in AI such as algorithmic bias and the ethical implications of machine learning systems. With a substantial presence in international conferences, she has contributed 110 papers and served as editor or co-chair in numerous prestigious events, enhancing her reputation as a key influencer in the field.

In addition to her research, Prof. A. Vakali has demonstrated exceptional leadership in guiding significant research projects and fostering a culture of innovation at Exanta and the Data and Web Science research lab. Her mentorship has profoundly impacted the academic and professional trajectories of over a hundred master's and doctoral candidates, many of whom now hold influential academic and industry positions globally.

Prof. A. Vakali's role as a keynote speaker at various international venues, along with her active participation in shaping future research directions through her involvement in numerous scientific committees and editorial boards, further reflects her capacity to influence and advance the field of data science. Her work not only enriches the academic discourse but also ensures that the development of new technologies remains aligned with societal needs and ethical standards, making her an invaluable asset to any research initiative focusing on the responsible and equitable advancement of technology.

### **Latest Publications**

- |      |  |
|------|--|
| 2024 | Evaluating Fairness in Self-supervised and Supervised Models for Sequential Data<br>S Yfantidou, D Spathis, M Constantinides, A Vakali, D Quercia, F Kawsar<br>arXiv preprint arXiv:2401.01640                                     |
| 2023 | Negotiation Strategies in Ubiquitous Human-Computer Interaction: A Novel Storyboards Scale & Field Study<br>S Yfantidou, G Yfantidou, P Balaska, A Vakali<br>arXiv preprint arXiv:2311.04705                                       |
| 2023 | Stress Beats: a continuum of learning methods for personalized stress detection<br>V Parousidou, S Yfantidou, C Karagianni, A Vakali<br>2023 IEEE International Conference on Web Intelligence and Intelligent Agent               |
| 2023 | Uncovering Bias in Personal Informatics<br>S Yfantidou, P Sermpezis, A Vakali, R Baeza-Yates<br>Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous ...   |
| 2023 | The State of Algorithmic Fairness in Mobile Human-Computer Interaction<br>S Yfantidou, M Constantinides, D Spathis, A Vakali, D Quercia, F Kawsar<br>Proceedings of the 25th International Conference on Mobile Human-Computer ... |
| 2023 | 14 Years of Self-Tracking Technology for mHealth—Literature Review: Lessons Learned and the PAST SELF Framework<br>S Yfantidou, P Sermpezis, A Vakali<br>ACM Transactions on Computing for Healthcare 4 (3), 1-43      15          |
| 2023 | Bias in Internet Measurement Platforms<br>P Sermpezis, L Prehn, S Kostoglou, M Flores, A Vakali, E Aben<br>2023 7th Network Traffic Measurement and Analysis Conference (TMA), 1-10  |

- 2023      Beyond accuracy: a critical review of fairness in machine learning for mobile and wearable computing  
S Yfantidou, M Constantinides, D Spathis, A Vakali, D Quercia, F Kawsar  
arXiv preprint arXiv:2303.15585
- 2023      UnStressMe: Explainable Stress Analytics and Self-tracking Data Visualizations  
E Paraschou, S Yfantidou, A Vakali  
2023 IEEE International Conference on Pervasive Computing and Communications ...
- 2022      LifeSnaps, a 4-month multi-modal dataset capturing unobtrusive snapshots of our lives in the wild  
S Yfantidou, C Karagianni, S Efstathiou, A Vakali, J Palotti, DP Giakatos, ...  
Scientific Data 9 (1), 663
- 2022      UBIWEAR: An end-to-end, data-driven framework for intelligent physical activity prediction to empower mHealth interventions  
A Bampakis, S Yfantidou, A Vakali  
2022 IEEE International Conference on E-health Networking, Application ...

### **Research projects & Innovation**

Prof. A. Vakali has demonstrated a remarkable capacity for leadership and innovation in her role as Chief Scientific Officer and co-founder at Exanta, where she guides research and development initiatives. Her expertise is further highlighted through her coordination of numerous impactful research projects under the EU's Horizon 2020 and Marie Skłodowska-Curie Actions, including significant initiatives such as the "RESET: Redesigning Equality and Scientific Excellence Together" project under the EU Horizon 2020 program. This project directly aligns with themes of fairness and bias by aiming to foster equality within scientific research and development environments. It reflects her commitment to integrating fairness and ethical standards into technological and scientific domains, ensuring that advancements are both innovative and socially responsible. Such initiatives highlight her role in addressing critical social issues within her field. Additionally, Prof. A. Vakali's engagement as a program chair and key contributor at several international conferences, including the influential IEEE/WIC/ACM International Conference on Web Intelligence, underlines her active role in shaping future research directions in data science and technology. Her leadership in these areas not only advances the academic community but also ensures that ethical considerations and innovation remain at the forefront of technological advancements.

- 2021-2024      "RESET: Redesigning Equality and Scientific Excellence Together", EU H2020 Science With And For Society (SWAFS) Programme
- 2021-2024      "INCENTIVE: Establishing Citizen Science Hubs in European Research Performing and Funding Organisations to drive institutional change and ground Responsible Research and Innovation in society", EU H2020 Science With And For Society (SWAFS) Programme
- 2020-2022      EuroCC: National Competence Centres in the framework of EuroHPC", EU H2020 Euro HPC & Greek Secretary of Research Programme
- 2019-2022      "RAIS: Real-time Analytics for Internet of Sports", EU H2020 Marie Skłodowska Curie ITN Action,  
2019-2022, <https://rais-itn.eu/>
- 2015-2019      "ENCASE: Enhancing security and privacy in the Social Web: a user-centered approach for the protection of minors", EU H2020 Marie Skłodowska Curie RISE Action,  
<https://encase.socialcomputing.eu>

### **Supervision & Mentorship**

#### **Supervision**

- 2022-2023 In collaboration with 4 post-doc level researchers and supervising 5 Ph.D. students and 7 MSc students' theses.
- 1997-present Supervised 13 completed PhD dissertations  
Mostly in the topics of Web Information Systems and Data Analytics  
Most of former PhD students are already faculty members or advanced experts in national and worldwide Universities, Research Centres and Companies
- 1997-present Supervised more than 100 MSc level diploma thesis  
Aristotle University, Hellenic International University & Hellenic Open University
- 1997-present Supervised more than 70 diploma theses  
School of Informatics, Aristotle University

| Ph.D. Supervisions |   |      |   |
|--------------------|---|------|---|
| Name               | Title   | Year | LinkedIn<br>(or ResearchGate)<br>profile  |
| Sofia Yfantidou    | Human-centered Machine Learning for Mobile Sensing Data   | 2024 | <a href="#">Sofia Yfantidou - Data Scientist - Kinetic Analysis   LinkedIn</a>  |
| Ilias Dimitriadis  | Hybrid techniques for analysis and knowledge discovery out of multi-sourced social networks data          | 2022 | <a href="#">Ilias Dimitriadis - Co-Founder - exanta   LinkedIn</a>  |
| Vagia Moustaka     | Urban and social data analysis techniques for knowledge extraction in smart cities                        | 2022 | <a href="#">Vagia Moustaka - Supply Chain Business Analyst - KLEEMANN   LinkedIn</a>  |
| Despoina Chatzakou | User Behavior Analysis on Social Web with Knowledge Discovery Techniques                                  | 2017 | <a href="#">Despoina Chatzakou - Postdoctoral Researcher - Centre for Research &amp; Technology Hellas (CERTH)   LinkedIn</a> |
| Maria Giatsoglou   | Knowledge discovery from evolving social media data   | 2015 | <a href="#">Maria Giatsoglou - Senior Manager, Data Scientist - Pfizer   LinkedIn</a>   |
| Eirini Giannakidou | Data mining techniques on Social Web data   | 2013 | <a href="#">Eirini Giannakidou - Employee - General State Archives of Greece   LinkedIn</a>                                   |
| Christos Zigkolis  | Knowledge discovery techniques for content characterization and recommendation services on the social web | 2013 | <a href="#">Christos Zigkolis - InstaShop   LinkedIn</a>  |

|                        |  |      |  |
|------------------------|--|------|--|
| Symeon Papadopoulos    | Knowledge extraction in large-scale content collections from social networks | 2012 | <a href="#">Symeon Papadopoulos - Head - Media Analysis, Verification and Retrieval (MeVer) Group   LinkedIn</a>   |
| Konstantinos Stamos    | Management of Large Scale Graphs for Web Data                                | 2010 | <a href="#">Konstantinos Stamos - Greece   Professional Profile   LinkedIn</a>   |
| Lefteris Moisiadis     | Mining the community structure of a web site                                 | 2009 | <a href="#">Lefteris Moussiades (researchgate.net)</a>   |
| Vassiliki Koutsonikola | Web data clustering techniques   | 2008 | <a href="#">Vassiliki KOUTSONIKOLA   Aristotle University of Thessaloniki, Thessaloniki   AUTH   School of Informatics   Research profile (researchgate.net)</a> |
| Konstantina Stoupa     | Access control techniques for distributed systems and the internet           | 2007 | <a href="#">Konstantina Stoupa - Scientific fellow - T.E.I of Kavala   LinkedIn</a>  |
| George Pallis          | Web management objects   | 2006 | <a href="#">George Pallis - Cyprus   Professional Profile   LinkedIn</a>   |

## Mentorship

- 2008-present    Mentorship and support for the establishment and promotion of the ACM Aristotle University Student Chapter as the official student chapter of the ACM in the Aristotle University of Thessaloniki to be based at the School of Informatics
- 2012-present    Faculty Sponsor, Mentorship and support for the establishment and promotion of the AUTH ACMW Student Chapter as the official chapter of ACM-W at Aristotle University of Thessaloniki, Greece (AUTH), based at the School of Informatics
- 2005-present    Mentorship and students empowerment to participate in local and international challenges such as the ACM Student Research Competition, IEEE Contests, OK Thess innovation challenges, Meetups for entrepreneurs, etc
- 2019-present    Mentorship and coaching for students Web information portal projects implementations which propose platforms for UN Sustainable Development Solutions Network (SDSN) goals and collaboration with the SDSN Black Sea Universities Network to promote students work and to inspire social innovation
- 2017             Mentor and coach of the student groups who have participated at the students competition of the 11th International Conference on Interactive Mobile Communication Technologies and Learning, IMCL 2017
- 2013             Mentorship and supervision of the Memrise hackathon challenge with open APIs and interesting learning gamification experiences
- 2011             Mentor and coach of the student group which has achieved the 3rd place at the Greek competition, “Microsoft Imagine Cup 2011” at Software Design category, presenting the

software platform “Life Avatar” which contributes to a healthier way of living

- 2010 Mentor and coach of the student group which has achieved the 3rd place at the national competition of Imagine Cup Software 2010 Design International presenting the “beeHive: an Educational Platform for Teens”.

### **International Recognition**

Throughout Prof. A. Vakali’s extensive academic career spanning over 28 years, she has established robust research collaborations and garnered substantial expertise in managing various EU and national research programs. This has allowed her to cultivate a wide-reaching professional network, evidenced by her collaborations with over 200 co-authors and leading more than 30 significant research and innovation projects across Europe. Her scholarly contributions include authoring 5 books and over 15 book chapters, with more than 60 papers published in high-impact journals like ACM and IEEE Transactions. Prof. A. Vakali has also contributed to over 110 international conference papers and has played key editorial roles at numerous prestigious conferences, emphasizing web data and analytics technologies, social networks, and data science. Her work has attracted over 8,390 citations, highlighting her impact on the field. These efforts are complemented by her academic sojourns across prestigious global institutions, which have enriched her research perspective and expanded her international influence.

### **Conferences & Workshops**

- PC chair Industrial Track (DSAA 2023), 10th IEEE International Conference on Data Science and Advanced Analytics
- General Chair (GEC’22) 4th Summit on Gender Equality in Computing, ACM-W Greek chapter
- Program Chair (WI 2019), IEEE/WIC/ACM International Conference on Web Intelligence 2019
- General Chair of the 1st EAI International Conference on Future Internet (FI) Infrastructures and Enablers, (FINE 2016)
- General Chair of the 5th International Conference on Model & Data Engineering (MEDI 2015)
- Program Chair of the EU Network of Excellence 2nd Internet Science Conference (EINS 2015)
- Workshops co-chair of the 24th International World Wide Web Conference (WWW 2015), the 16th, 17th, and 18th East-European Conference on Advances in Databases and Information Systems (ADBIS 2013, 2014, 2015), the 5th IEEE International Workshop on Content Delivery Networks (CDN 2010) in conjunction with CCGrid 2010
- Program Chair of the 15th International Conference on Web Information System Engineering (WISE 2014), Thessaloniki, Greece, Oct 2014
- Keynote and invited speaker at several International Conferences and events such as : 10th ACM Celebration of Women in Computing: womENcourage™ 2023, the Marie Skłodowska Curie ETN training event on Journalism, Crowdsourcing & Data Exploration techniques for Citizens’ Awareness and Empowerment (2020), the IEEE/CAS School on “Building blocks for the Internet of Things” (2017), the DINO Research Group Lecture Series at Paris Descartes University, Paris (2016), the Zayed University MSc Programme Lecture series, Dubai (2016), the 4th International Conference on Web Intelligence, Mining and Semantics (WIMS 2014), the 18th East-European Conference on Advances in Databases and Information Systems (ADBIS 2014), the 8th Summer School on Applications of IoT and Wireless and Sensor Networks (Senzations 2013), as well as at the 16th International Database Engineering & Applications Symposium (IDEAS 2012)

**Selected invited and keynote lectures**

- 2021 FIBEP world's media intelligence association, tech day keynote speaker  
<https://www.fibep.info/2021-techday>
- 2019 Program Chair (WI 2019), IEEE/WIC/ACM International Conference on Web Intelligence 2019.
- 2016 General Chair of the 1st EAI International Conference on Future Internet (FI) Infrastructures and Enablers, (FINE 2016)
- 2015 Program Chair of the EU Network of Excellence 2nd Internet Science Conference (EINS 2015)
- 2015 Workshops co-chair of the 24th International World Wide Web Conference (WWW 2015), the 16th, 17th, and 18th East-European Conference on Advances in Databases and Information Systems (ADBIS 2013, 2014, 2015), the 5th IEEE International Workshop on Content Delivery Networks (CDN 2010) in conjunction with CCGrid 2010.
- 2014 Program Chair of the 15th International Conference on Web Information System Engineering (WISE 2014), Thessaloniki, Greece

**Selected Editorships****Journals & Conferences**

- Payam M. Barnaghi, Georg Gottlob, Yannis Manolopoulos, Theodoros Tzouramanis, Athena Vakali: IEEE/WIC/ACM International Conference on Web Intelligence (WI 2019), Thessaloniki, Greece, ACM 2019
- Payam M. Barnaghi, Georg Gottlob, Dimitrios Katsaros, Yannis Manolopoulos, Rahul Pandey, Theodoros Tzouramanis, Athena Vakali, 2019 IEEE/WIC/ACM International Conference on Web Intelligence, WI 2019, Thessaloniki, Greece, October 14-17, 2019 - Companion Volume.
- Nick Bassiliades, Mirjana Ivanovic, Margita Kon-Popovska, Yannis Manolopoulos, Themis Palpanas, Goce Trajcevski, Athena Vakali: New Trends in Database and Information Systems II - Selected papers of the 18th East European Conference on Advances in Databases and Information Systems and Associated Satellite Events, ADBIS 2014 Ohrid, Macedonia, September 7-10, 2014 Proceedings II. Advances in Intelligent Systems and Computing 312, Springer 2015.
- Thanassis Tiropanis, Athena Vakali, Laura Sartori, Pete Burnap: Internet Science - Second International Conference, INSCI 2015, Brussels, Belgium, May 27-29, 2015, Proceedings. Lecture Notes in Computer Science 9089, Springer 2015
- Boualem Benatallah, Azer Bestavros, Barbara Catania, Armin Haller, Yannis Manolopoulos, Athena Vakali, Yanchun Zhang: Web Information Systems Engineering - WISE 2014 Workshops - 15th International Workshops IWCSN 2014, Org2 2014, PCS 2014, and QUAT 2014, Thessaloniki, Greece, October 2014, Revised Selected Papers. Lecture Notes in Computer Science 9051, Springer 2015.
- Barbara Catania, Tania Cerquitelli, Silvia Chiusano, Giovanna Guerrini, Mirko Kämpf, Alfons Kemper, Boris Novikov, Themis Palpanas, Jaroslav Pokorný, Athena Vakali: New Trends in Databases and Information Systems, 17th East European Conference on Advances in Databases and Information Systems, ADBIS 2013, Genoa, Italy, 2013. Proceedings II. Advances in Intelligent Systems and Computing 241, Springer 2014.
- Boualem Benatallah, Azer Bestavros, Yannis Manolopoulos, Athena Vakali, Yanchun Zhang: Web Information Systems Engineering - WISE 2014 - 15th International Conference, Thessaloniki, Greece, October 12-14, 2014, Proceedings, Parts I and II. Lecture Notes in Computer Science 8786, Springer 2014

- Abdelkader Hameurlain, Josef Küng, Roland R. Wagner, Barbara Catania, Giovanna Guerrini, Themis Palpanas, Jaroslav Pokorný, Athena Vakali: Transactions on Large-Scale Data- and Knowledge-Centered Systems XV - Selected Papers from ADBIS 2013 Satellite Events. Lecture Notes in Computer Science 8920, Springer 2014.
- Athena Vakali and Leonidas Anthopoulos Workshop on “Modelling, Mining, Managing smart city data flows”, 3M4city 2014, 4th International Conference on Web Intelligence, Mining and Semantics (WIMS 2014)
- Hakim Hacid, Shengbo Guo, Athena Vakali, Workshop on “Mining Social Networks Dynamics” at the 2013 WWW Conference, Rio de Janeiro, Brazil, May 2013
- Athena Vakali and Hakim Hacid, Workshop on “Social Web Analytics for Trend Detection”, at the 13th International Conference on Web Information System Engineering (WISE 2012), Paphos, Cyprus, 2012
- Jaroslav Pokorný, Athena Vakali and Vaclav Snasel, Workshop on “Social Data Processing”, at the 16th East European Conference on Advances in Databases and Information Systems, September 2012

### **Books, Encyclopedia Articles & Special Issues**

- Athena Vakali and Vaia Moustaka: City dynamics tracking based on citizens data and sensing analytics. Smart Cities in the Post-algorithmic Era. Edward Elgar, USA, 2019.
- Athena Vakali: “Access Control Policy Languages”. Encyclopedia of Database Systems (2nd ed.) 2018
- Athena Vakali: Security Services. Encyclopedia of Database Systems (2nd ed.) 2018
- Athena Vakali: Evolving Social Graph Clustering. Encyclopedia of Social Network Analysis and Mining, 2nd Ed. 2018
- Athena Vakali: Flickr and Twitter Data Analysis. Encyclopedia of Social Network Analysis and Mining., 2nd Ed. 2018
- Lara Srivastava and Athena Vakali. 2012. Towards a narrative-aware design framework for smart urban environments. The Future Internet, F. Alvarez et al. (Eds.), Lecture Notes in Computer Science. Vol. 7281. Springer
- Athena Vakali, Lakhmi C. Jain: New Directions in Web Data Management 1. Studies in Computational Intelligence 331, Springer, 2011.
- Sivasubramanian, D. Katsaros, G. Pallis, A. Vakali. IEEE Network, special issue on "Cloud Computing", 2011.
- Spiros Nikolopoulos, Eirini Giannakidou, Ioannis Kompatsiaris, Ioannis Patras, Athena Vakali: Combining Multi-modal Features for Social Media Analysis. Social Media Modeling and Computing 2011: 71-96
- Symeon Papadopoulos, Athena Vakali, Yiannis Kompatsiaris: Community Detection in Collaborative Tagging Systems. Community-Built Databases 2011: 107-131
- Athena Vakali: Innovations and Trends in Web Data Management. New Directions in Web Data Management 1 2011: 1-18
- Maria Giatsoglou, Symeon Papadopoulos, Athena Vakali: Massive Graph Management for the Web and Web 2.0. New Directions in Web Data Management 1 2011: 19-58
- Spiros Nikolopoulos, Elisavet Chatzilari, Eirini Giannakidou, Symeon Papadopoulos, Ioannis Kompatsiaris, Athena Vakali: Leveraging Massive User Contributions for Knowledge Extraction. Next Generation Data Technologies for Collective Computational Intelligence 2011: 415-443.



**Fellowships & Awards**

- |              |  |
|--------------|--|
| 2020-present | ACM Fellow and ACM Distinguished speaker   |
| 2020-present | DEEPMIND and MSc on Data and Web Science (DWS) <b>MSc Scholarship programme assigned for supervision</b> to prof. Vakali in recognition to her research work and her strong mentorship impact on DWS MSc students  |
| 2020         | Aristotle University of Thessaloniki honored Prof. Athena Vakali, with its <b>Excellence Award 2020</b> for her outstanding performance in terms of research projects funding excellence and her capacity to attract research and innovation funds from EU and national sources  |
| 2020         | The paper "TRIAGE: Temporal Twitter attribute graph patterns", co-authored by Ilias Dimitriadis, Marinos Poyitis, Christos Faloutsos and Athena Vakali, received the <b>1st place in the Best Paper Awards</b> at the 10th International Conference on Web Intelligence, Mining and Semantics, organized by the Association for Computing Machinery              |
| 2020         | The paper "Bot-Detective: An explainable Twitter bot detection service with crowdsourcing functionalities", co-authored by Maria Kouvela, Ilias Dimitriadis and Athena Vakali, received the <b>1st place in Best Paper Awards</b> at the 12th International Conference on Management of Digital EcoSystems, organized by the Association for Computing Machinery |
| 2019         | <b>Marie Skłodowska Curie Scholarship</b> for advanced research visit in UK, under the premises of LStech under the ENCASE project, Milton Keynes, UK  |
| 2018         | <b>Faculty Scholarship</b> , for participating at the Grace Hopper Celebration for Women Technology pioneers 2018, Houston, USA  |
| 2011         | <b>Best Demo award</b> , International Conference on Multimedia Retrieval 2011, organized by the American company of Computer Machines at Trento, Italy  |
| 2010         | <b>Best paper award</b> , International Journal of Data Warehousing and Mining, The paper entitled "The Dynamics of Content Popularity in Social Media" co-authored by S. Papadopoulos, A. Vakali and I. Kompatsiaris  |
| 2010         | <b>Best paper award</b> , International Journal of Web Information Systems, The paper entitled "A New Approach to Web Users Clustering and Validation: a Divergence-based Scheme", co-authored by V. Koutsonikola, S. Petridou, A. Vakali and G. Papadimitriou   |
| 2009         | <b>Top accessed paper</b> - ranked at top (#32) accessed articles by IEEE for Sept. 2009, 1st for IEEE Internet Computing for Sept. 2009 IEEE Organization, The paper M. Dikaiakos, G. Pallis, D. Katsaros, P. Mehra, Hewlett-Packard Labs, A. Vakali, "Cloud Computing", September/October 2009 (Vol. 13, No. 5) pp. 10-13                                      |

**Funding*****Appendix: All ongoing and submitted grants and funding of the PI (Funding ID)***

| Project Title   | Funding source   | Amount (Euros) | Period                              | Role of the PI | Relation to current ERC proposal |
|---|--|----------------|-------------------------------------|----------------|----------------------------------|
| <b>Ongoing Grants</b>   |  |                |                                     |                |                                  |
| TRINEFLEX - Transformation of energy intensive process industries through integration of energy, process, and feedstock flexibility | European Health and Digital Executive Agency, European Union                     | 16308948.5     | 1 September 2022 - 31 August 2026   | PI             |                                  |
| MASTERMINE - European Mining in the Green and Digital Era   | European Health and Digital Executive Agency, European Union                     | 11963524.5     | 1 December 2022 - 30 November 2026  | PI             |                                  |
| GILL - Gendered Innovation Living Labs  | European Research Executive Agency, European Union                               | 2589225        | 1 January 2023 - 31 December 2025   | PI             |                                  |
| IANUS - INspiring and ANchoring TrUst in Science  | European Research Executive Agency, European Union                               | 1816064        | 1 June 2022 - 31 May 2025           | PI             |                                  |
| RESET - Redesigning Equality and Scientific Excellence Together   | European Research Executive Agency, European Union                               | 2998297.5      | 1 January 2021 - 31 December 2024   | PI             |                                  |
| EuroCC@Greece - National Competence Centers in the framework of EuroHPC   | EuroHPC Joint Undertaking, European Union & General Secretariat for Research and | 1800000        | 1 September 2020 - 31 December 2025 | PI             |                                  |

|  |                      |            |           |    |  |
|--|----------------------|------------|-----------|----|--|
|  | Innovation of Greece |            |           |    |  |
| <b>Grant Applications</b>  |                      |            |           |    |  |
| YOUTHspaces - Promoting Just and Inclusive Youth Transitions and Resilient Spaces of Youth through a Multi-scalar, Cocreation Approach                     | Horizon Europe       | 3099312.5  | 2025-2027 | PI |  |
| A-FICCIONES (European Culture - In Your Pocket) - Extending Reality to Increase European Cultural and Creative Industries' Visibility, Impact, and Success | European Union       | 3997777.13 | 2025-2027 | PI |  |
| CINNAMON - CitIzeN scieNce As a coMponent Of sustaiNable food system transition  | European Union       | 4429771.25 | 2025-2028 | PI |  |
| PTX-AI - Prometheus-X AI   | European Union       | 9889673    | 2025-2027 | PI |  |
| EAGER - Encouraging And Empowering Girls and WomEn for an active Role in the Digital Age   | European Union       | 1999915.6  | 2025-2026 | PI |  |
| CALCOMS - Calculation of Living Costs for Mobile Students  | National             | 388920     | 2025-2027 | PI |  |

**ADDITIONAL INFORMATION**

I exemplify a commitment to integrating ethical AI and fairness into both my teaching and professional activities. As a distinguished faculty member at Aristotle University, I offer specialized courses through the Data and Web Science MSc program, such as "Social Networks Analysis" and "Web Data Mining." These courses are meticulously designed to additionally incorporate elements from my extensive research on fairness and bias in AI, particularly insights gained from leading the "RESET: Redesigning Equality and Scientific Excellence Together" project. This EU-funded initiative under the Horizon 2020 program focuses on embedding equality in scientific and technological outputs, serving as a cornerstone example in my curriculum.

Furthermore, I leverage my roles within several high-impact scientific societies to advocate for ethical standards in technology. As a National Representative at the EU Open and Agile Smart Cities Council and an Associate Member at the EU European Big Data Value Strategic Research Innovation Association, I influence policy and research agendas towards more responsible AI and data usage practices. My involvement in these bodies allows me to shape critical discussions around the governance of AI technologies, ensuring that fairness and ethical considerations are prioritized in the evolving digital landscape.

**Teaching Activities****Graduate Courses**

|                |   |
|----------------|---|
| 2015 - present | Social Networks analysis  |
|                | 1st semester of "Data and Web Science" MSc course program, School of Informatics, Aristotle University  |
| 2004 - present | Web Data Mining   |
|                | 2nd semester of "Data and Web Science" (earlier "Information and Communication Technology Systems") MSc course program, School of Informatics, Aristotle University |
| 2018 - present | Decentralized technologies  |
|                | 2nd semester of "Data and Web Science" MSc course program, School of Informatics, Aristotle University  |
| 2018 - now     | Social networks technology for marketing  |
|                | 2nd semester of "Management and Information Systems" Joint MSc course program, School of Informatics, Aristotle University  |
| 2003 - 2018    | Web Information frameworks  |
|                | 2nd semester of "Informatics and Management" Joint MSc course program, School of Informatics, Aristotle University  |
| 2010 - 2014    | Web Information Systems   |
|                | 1st semester of "Information and Communication Technology Systems" MSc course program, School of Science & Technology, International Hellenic University            |
| 2005 - 2014    | Advances in Software Engineering  |
|                | 2nd year of Information Systems MSc course program, Hellenic Open University  |

**Undergraduate Courses**

|              |   |
|--------------|---|
| 1997-present | <a href="#"><u>Operating Systems</u></a>  |
|              | 5th semester of Informatics undergraduate course program, School of Informatics, Aristotle University |
| 2003-present | <a href="#"><u>Web Information Systems</u></a>  |
|              | 6th semester of Informatics undergraduate course program, School of Informatics, Aristotle University |
| 1997-2019    | Distributed Operating Systems   |
|              | 6th semester of Informatics undergraduate course program, School of Informatics, Aristotle University |
| 1997-2002    | Internet Technologies, Services and Applications  |
|              | 6th semester of Informatics undergraduate course program, School of Informatics, Aristotle University |

**Selected memberships of scientific societies**

|              |  |
|--------------|--|
| 2015-present | Associate Member at the EU European Big Data Value Strategic Research Innovation Association -BDVA   |
| 2016-present | National Representative at the EU Open and Agile Smart Cities Council - OASC   |
| 2019-present | Member at the GRNET – National Infrastructures for Research and Technology Executive Management Board  |
| 2020-present | Expert member at the Next Generation Internet (NGI) European initiative for a Human Internet that respects the fundamental values of privacy, participation and diversity (views : <a href="https://www.ngi.eu/news/2020/10/27/next-generation-internet-opinion-on-future-directions-with-expert-athina-vakali/">https://www.ngi.eu/news/2020/10/27/next-generation-internet-opinion-on-future-directions-with-expert-athina-vakali/</a> ) |
| 2018-present | Founding Member of the Greek Chapter of the ACM-W (ACM's Council on Women in Computing), active member Athena Vakali, received the 1st place in Best Paper Awards at the 12th International Conference on Management of Digital EcoSystems, organized by the Association for Computing Machinery   |
| 2019-present | Member of the ACM/IEEE/WIC Web Intelligence Technical Committee (WI -TC) and WI Conference Steering Committee  |
| 2010-present | Active evaluator and Reviewer in multiple EU H2020, FP7, and International projects  |
| ???          | Active member in ACM, IEEE/IEEE CS Societies.  |
| ???          | Chairing and member at several Committees of the Aristotle University (AUTH) and its School of Informatics (eg Faculty of Science Library and Information Centre, AUTH IT Center Steering Committee, AUTH Research Programmes Assembly member; AUTH Day Care Unit; School of Informatics website and dissemination/MSc program chairing/Staff selection Committees etc)  |
| 2007-present | Member of the editorial board of “Web Intelligence Journal”, the "Computers & Electrical Engineering" Journal (Elsevier) since 2007 the International Journal of Grid and High Performance Computing (IGI publishing) and the Web Intelligence Journal   |
| 2005-present | PC member to many International Conferences, Workshops, Tutorials, etc (PC member at more than 100 International Conferences and Workshops)  |
| 2012-2014    | Appointed as a member in the Future Internet Assembly Steering Committee (2012-14) for her achievements in Future Internet and Networking (FIA Committee had 10 members from both academia and the industry and have shown European excellence).   |