

Serafeim Chatzopoulos

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EDUCATION

- Ph.D. in Computer Science** · Informatics and Telecommunications, University of the Peloponnese 2016 – 2021
Thesis: Data Mining for Scholarly Information Networks.
Advisory Committee: Christos Tryfonopoulos, Theodore Dalamagas, Spiros Skiadopoulos
- M.Sc. Computer Systems Technology** · Informatics and Telecommunications, University of Athens 2012 – 2015
Thesis: Survey of Privacy-Preserving Data Publishing Methods and Speedy: a Multi-threaded Algorithm preserving k-anonymity. Advisor: Mema Roussopoulos
- B.Sc. Informatics and Telecommunications** · University of Athens 2007 – 2012
Thesis: On-line Testing of Data Translation Lookaside Buffer (D-TLB) of the Processor OpenSparc T1.
Advisor: Antonios Paschalis

WORK EXPERIENCE

- EOSC Future** · OpenAIRE AMKE 04/2022 – present
European Open Science Cloud
Funding: H2020-INFRAEOSC-2018-2020
• Implementation of Hadoop-based data aggregation and transformation services.
- OpenAIRE-Nexus** · “ATHENA” Research Center 01/2022 – present
Scholarly Communication Services for EOSC users
Funding: H2020-INFRAEOSC-2018-2020
• Search services for the OpenAIRE-Explore portal.
- Smart Data Lake** · “ATHENA” Research Center 08/2019 – 07/2020, 06/2021 – 12/2021
Sustainable Data Lakes for Extreme-Scale Analytics
Funding: H2020 ICT-12-2018-2020
• Efficient evaluation of metapath queries over heterogeneous information networks.
• Expert finding in academia exploiting scholarly information networks.
- ELIXIR-GR** · BSRC Alexander Fleming 05/2021 – 06/2021
Managing and Analyzing Biological Data
Funding: EPAnEK / National Strategic Reference Framework (NSRF) 2014-2020
• Educational material for Machine Learning in Bioinformatics.
- ELIXIR-EXCELERATE** · BSRC Alexander Fleming 04/2019 – 07/2019
Fast-track ELIXIR implementation and drive early user exploitation across the life-sciences
Funding: H2020-INFRADEV-1-2015-1
• Implementation of a data management plan application for the Greek Bioinformatics Community.
- OpenAIRE-Advance** · “ATHENA” Research Center 07/2018 – 07/2019
Advancing Open Scholarship
Funding: H2020, H2020-EINFRA-2017
• Integration of a variety of impact measures for scientific publications.
- SlideWiki** · “ATHENA” Research Center 10/2016 – 06/2018
Large-scale pilots for collaborative OpenCourseWare authoring, multiplatform delivery and Learning Analytics
Funding: H2020, H2020-ICT-20-2015
• Design and implementation of keyword searching multi-versioned scholarly data.
- LODGOV** · “ATHENA” Research Center 06/2014 – 09/2015
Data Governance in the era of the Web of Data
Funding: Greek Secretariat for Research and Innovation (GSRI) 2007-2013
• Design and implementation of scalable privacy-preserving data publishing methods.

RESEARCH INTERESTS

- Scholarly Information Networks
- Data Mining for Scientific Publications
- Scientometrics
- Big Data Management

LANGUAGES

- **English** · Certificate of Proficiency in English
University of Cambridge
- **French** · DELF B2
République Française

TEACHING ASSISTANTSHIP

Dept. of Informatics and Telecommunications · University of the Peloponnese

- Programming II (Spring 2017-18-19-20-21-22) · Teaching Assistant
Instructor: Christos Tryfonopoulos
- Information Retrieval (Fall 2017) · Teaching Assistant
Instructor: Christos Tryfonopoulos
- Big Data Management (Fall 2017-18-20-21) · Teaching Assistant
Instructor: Paraskevi Raftopoulou

Dept. of Informatics and Telecommunications · University of Athens

- Systems Programming (Spring 2013-14-15) · Teaching Assistant
Instructor: Mema Roussopoulos, Yannis Smaragdakis
- Operating Systems (Fall 2013) · Teaching Assistant
Instructor: Alex Delis
- Logic Design (Fall 2012) · Laboratory Assistant
Instructor: Antonios Paschalis

PROGRAMMING SKILLS

Programming Languages: C/C++, Java, Node.js, PHP, Python, Assembly (MIPS and SPARC)

Database Systems: MySQL, PostgreSQL, MongoDB, Neo4j, SPARQL

Frameworks: React.js & Redux, Yii2 (PHP Web Application), OpenMP-MPI (Parallel Programming), Apache Spark (Big Data Processing), Java SpringBoot

Misc.: Git, SVN, Apache Solr, Elasticsearch, Bash/Bourne, Awk, Sed

SCIENTIFIC PUBLICATIONS · 660 CITATIONS BASED ON [GOOGLE SCHOLAR]

[c17] A. Tzerefos, I. Kanellos, **S. Chatzopoulos**, T. Dalamagas, T. Vergoulis: SurvAnnT: Facilitating Community-led Scientific Surveys and Annotations. *International Conference on Theory and Practice of Digital Libraries (TPDL)*, Padua, Italy, 2022

[c16] T. Vergoulis, **S. Chatzopoulos**, K. Vichos, I. Kanellos, A. Mannocci, N. Manola, P. Manghi: BIP! Scholar: A Service to Facilitate Fair Researcher Assessment. *Joint Conference on Digital Libraries (JCDDL)*, Cologne, Germany, 2022

[c15] K. Vichos, M. De Bonis, I. Kanells, **S. Chatzopoulos**, C. Atzori, N. Manola, P. Manghi, T. Vergoulis: A preliminary assessment of the article deduplication algorithm used for the OpenAIRE Research Graph. *18th Italian Research Conference on Digital Libraries (IRJDL)*, 2022

[j5] **S. Chatzopoulos**, Thanasis Vergoulis, Theodore Dalamagas, Christos Tryfonopoulos: VeTo+: Improved Expert Set Expansion in Academia. *International Journal on Digital Libraries (IJDL)*, 2021

[j4] Thanasis Vergoulis, Ilias Kanellos, **S. Chatzopoulos**, Danae Pla Karidi, Theodore Dalamagas: BIP4COVID19: Releasing impact measures for articles relevant to COVID-19. *Quantitative Science Studies (Scientific Knowledge Graphs and Research Impact Assessment Issue)*, 2021

[j3] **S. Chatzopoulos**, T. Vergoulis, I. Kanellos, T. Dalamagas, C. Tryfonopoulos: Further Improvements on Estimating the Popularity of Recently Published Papers. *Quantitative Science Studies (Scientific Knowledge Graphs and Research Impact Assessment Issue)*, 2021

[c14] **S. Chatzopoulos**, T. Vergoulis, T. Dalamagas, C. Tryfonopoulos: VeTo-web: A Recommendation Tool for the Expansion of Sets of Scholars. *Joint Conference on Digital Libraries (JCDDL)*, September 2021

- [c13] T. Vergoulis, I. Kanellos, C. Atzori, A. Mannocci, **S. Chatzopoulos**, S. La Bruzzo, N. Manola, P. Manghi: BIP! DB: A Dataset of Impact Measures for Scientific Publications. *1st International Workshop on Scientific Knowledge: Representation, Discovery and Assessment (Sci-K) @ The Web Conf*, Ljubljana, Slovenia, April 2021
- [c12] P. Deligiannis, T. Vergoulis, **S. Chatzopoulos**, C. Tryfonopoulos: Visualising Scientific Topic Evolution. *1st International Workshop on Scientific Knowledge: Representation, Discovery and Assessment (Sci-K) @ The Web Conf*, Ljubljana, Slovenia, April 2021
- [c11] **S. Chatzopoulos**, T. Vergoulis, P. Deligiannis, D. Skoutas, T. Dalamagas, C. Tryfonopoulos: SciNeM: A Scalable Data Science Tool for Heterogeneous Network Mining. *In Proceedings of the 24th International Conference on Extending Database Technology (EDBT)*, Nicosia, Cyprus, March 2021
- [c10] **S. Chatzopoulos**, K. Patroumpas, A. Zeakis, T. Vergoulis, D. Skoutas: SPHINX: A System for Metapath-based Entity Exploration in Heterogeneous Information Networks. *In Proceedings of the 46th International Conference on Very Large Data Bases (VLDB)*, Tokyo, Japan, August 2020
- [c9] **S. Chatzopoulos**, T. Vergoulis, I. Kanellos, T. Dalamagas, C. Tryfonopoulos: ArtSim: Improved estimation of current impact for recent articles. *In Proceedings of the 1st International Workshop on Assessing Impact and Merit in Science @ TPD*, Lyon, France, August 2020
- [c8] T. Vergoulis, **S. Chatzopoulos**, T. Dalamagas, C. Tryfonopoulos: VeTo: Expert Set Expansion in Academia. *In Proceedings of the 24th International Conference on Theory and Practice of Digital Libraries (TPDL)*, Lyon, France, August 2020
- [c7] T. Vergoulis, **S. Chatzopoulos**, I. Kanellos, P. Deligiannis, C. Tryfonopoulos, T. Dalamagas: BIP! Finder: Facilitating scientific literature search by exploiting impact-based ranking. *In Proceedings of the 28th ACM International Conference on Information and Knowledge Management (CIKM)*, Beijing, China, November 2019
- [c6] T. Vergoulis, I. Kanellos, A. Tzerefos, **S. Chatzopoulos**, T. Dalamagas, S. Skiadopoulou: A study on the readability of scientific publications. *In Proceedings of the 23rd International Conference on Theory and Practice of Digital Libraries (TPDL)*, Oslo, Norway, September 2019
- [c5] **S. Chatzopoulos**, P. Deligiannis, T. Vergoulis, I. Kanellos, C. Tryfonopoulos, T. Dalamagas: SciTo trends: visualising scientific topic trends. *In Proceedings of the 23rd International Conference on Theory and Practice of Digital Libraries (TPDL)*, Oslo, Norway, September 2019
- [c4] T. Vergoulis, I. Kanellos, A. Tzerefos, **S. Chatzopoulos**, T. Dalamagas, S. Skiadopoulou: Studying the readability of scientific papers. *In Proceedings of the 17th Hellenic Data Management Symposium (HDMS)*, Athens, Greece, July 2019
- [j2] D. Karagkouni, M. Paraskevopoulou, **S. Chatzopoulos**, I. S. Vlachos, S. Tastsoglou, I. Kanellos, D. Papadimitriou, I. Kavakiotis, S. Maniou, G. Skoufos, T. Vergoulis, T. Dalamagas, A. Hatzigeorgiou: DIANA-TarBase v8: a decade-long collection of experimentally supported miRNA-gene interactions. *Nucleic Acids Research (Database Issue)*, 46: D239-D245, 2018
- [c3] T. Vergoulis, I. Kanellos, **S. Chatzopoulos**, C. Tryfonopoulos, T. Dalamagas, Y. Vassiliou: Pub Finder: Assisting the discovery of qualitative research. *In Proceedings of the 16th Hellenic Data Management Symposium (HDMS)*, Larnaca, Cyprus, July 2018
- [j1] I. S. Vlachos, T. Vergoulis, M. Paraskevopoulou, F. Lykokanellos, G. Georgakilas, P. Georgiou, **S. Chatzopoulos**, D. Karagkouni, F. Christodoulou, T. Dalamagas, A. Hatzigeorgiou: DIANA-mirExTra v2.0: Uncovering microRNAs and Transcription Factors with crucial roles in NGS expression data. *Nucleic Acid Research (Web Server Issue)*, 2016
- [c2] G. Theodorou, **S. Chatzopoulos**, N. Kranitis, A. Paschalis, D. Gizopoulos: A Software-Based Self-Test Methodology for On-Line Testing of Data TLBs. *In Proceedings of the IEEE 17th European Test Symposium (ETS)*, pp. 189, Annecy, France, 2012
- [c1] G. Theodorou, **S. Chatzopoulos**, N. Kranitis, A. Paschalis, D. Gizopoulos: On-Line Software-Based Self-Test for Data TLBs. *In Proceedings of the 1st Workshop on Manufacturable and Dependable Multicore Architectures at Nanoscale (MEDIAN)*, pp.65-70, Annecy, France, 2012