


## PERSONAL INFORMATION

## Dennis Dosso

 Via Passiva 15, S. Urbano PD 35040 Italy

 +39 3209681403

 [dennis.dosso@unipd.it](mailto:dennis.dosso@unipd.it), [dosso@dei.unipd.it](mailto:dosso@dei.unipd.it)

 <http://www.dei.unipd.it/~dosso/>

 <https://www.linkedin.com/in/dennis-dosso-82675b87/>

Gender Male | Date of birth 02 October 1992 | Nationality(-ies) Italian

## WORK EXPERIENCE

November 2020 - Ongoing

## Junior Post-Doc Researcher

Department of Information Engineering, University of Padua, Italy

Title of the research project: Leveraging Data Credit to Address Data Citation and Data Pricing. Supervisor: Prof. Gianmaria Silvello

October 2016 – August 2017

## Software Engineer

MBM S.r.L. Italy

Development of Android and web applications for industries and enterprises. ERP, SQL, Software as a Service.

## EDUCATION AND TRAINING

October 2017 – September 2020  
(expected)

## Ph.D. Student in Information Engineering

[with Grant](#)

XXXIII Cycle, Curriculum: Science and technology of information, Department of Information Engineering, University of Padua, Italy

Research about data citation on RDF databases, RDF Ontologies, Data Citation on relational databases, Bibliometrics on data, models of Citation Graph, Data Credit and Data Credit Distribution.

Title of the thesis: *Using Data in Research: Methods for Accessing, Citing and Rewarding Scientific Databases*

Supervisor: Prof. Gianmaria Silvello

April – May and September –  
November 2019

## Visiting Scholar

University of Pennsylvania, Philadelphia, PA, USA

Under the supervision of Prof. Susan B. Davidson. Research themes: Credit Allocation on Relational Databases.

August 2017

## Passed the Government Exam (Esame di Stato) as information engineer

222/240 – University of Padua, Italy

October 2014 – October 2016

## Master Degree in Computer Science Engineering

110/110 cum laude - University of Padua, Italy

Thesis title: Analysis and comparison of distance measures for Uncertain Graphs. Supervisor: Prof. Andrea Alberto Pietracaprina, Co-supervisors: Prof. Geppino Pucci, Dr. Matteo Ceccarello

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user  
Common European Framework of Reference (CEF) level

**Communication skills**

- team work: I have worked in different teams both inside the university and in the reality of a little italian software house. I learned how to contribute to a complex project which involves different people with different and variegated tasks.
- communication skills: I followed two Academic English Courses from the University of Padua to better describe my research activity in pitches, scientific publications and official presentations during seminars and conferences. I have performed several public speeches and some lessons during classes at the university. I presented at seminars in front of international audiences in english, describing research works performed in academia.

**Computer skills**

- **Programming languages** (primary): Java, Python, SQL, SPARQL. (secondary): C, C++, MATLAB, Octave, HTML, CSS, Javascript.
- **Software**: DBeaver, PostgreSQL, Git, Bitbucket, Protégé, WordPress.
- **Semantic Web**: RDF, RDFS, SPARQL, OWL and SPARQL.

**Scientific Competences**

- **RDF and SPARQL**: experience in using the RDF framework to develop and query large graph databases through the query language *SPARQL*
- **Ontologies**: experience in developing ontologies through the OWL language and the software Protégé (the ontology is available here <https://wiki.examode.eu/images/f/f5/Examode.ttl.zip>). Creation of documentation to describe the ontology at the website <http://examode.dei.unipd.it/ontology/>.
- **Graph Databases**: experience in dealing with graph databases through the use of DBMS systems like Jena and rdf4j.
- **Relational Databases**: experience in dealing with relational databases through the SQL language and the PostgreSQL DBMS.
- **Java**: experience in this programming language developed through many project both in scientific research and industrial projects. An example of research project in Java is <https://bitbucket.org/keywordsearchrdfproject/workspace/projects/TSAC>, written to perform keyword search over large RDF datasets.
- **Python**: extensive experience in using the programming language developed through many scientific research projects. An example of research project in Python is [https://bitbucket.org/dennis\\_dosso/credit\\_distribution\\_python/src/master/](https://bitbucket.org/dennis_dosso/credit_distribution_python/src/master/), written to perform computations and assign credit to information contained in relational databases in the context of data citation.
- **Web programming**: knowledge of web programming through languages such as HTML, CSS, Javascript, and the WordPress service.

**Scientific Activity** Participation to the Horizon 2020 project *Exa-Mode* (EXTreme-scale Analytics via Multimodal Ontology Discovery & Enhancement), no. 825292, duration: 2019-2022. Exa-Mode is an ICT project funded by the European commission in the context of the program H2020, in the research group "Big Data technologies and extreme-scale analytics". I participated to the WP2 "Semantic knowledge discovery and visualization," co-responsible of the definition of OWL ontologies to model clinical trials about different types of tumor diseases (lung, cervix, colon) and coeliac disease. I also participate to the WP8, "Dissemination", and I was the co-responsible for the project website at [www.examode.eu](http://www.examode.eu). My role was to keep the website updated in its entirety, with particular attention to the project's news, scientific publications, and software produced by the project partners.

Orcid ID: 0000-0001-7307-4607

**Driving licence** B

## TEACHING

---

**A.A. 2018-2019** T.A. for the course 'Elementi di Informatica e Programmazione', Bachelor Degree in Bioengineering at the University of Padua, Channels 1 and 2. 100 hours.

## ADDITIONAL INFORMATION

---

**Awards** Best Presentation Award at the FDIA - ESSIR 2019 Consortium: Keyword Search on RDF Datasets

Winner of the student fellowship grant for attending the 41st European Conference on Information Retrieval (ECIR 2019) in Cologne, Germany in the context of the Doctoral Consortium.

Winner of the Best Doctoral Consortium Paper at ECIR 2019.

Winner of a SIGIR Student Travel Grants at the 42nd International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2019).

Winner of the Award for Information Engineer students from the "Fondazione Luciano Iglesias", year 2017.

Winner of the Award for Information Engineer students from the "Fondazione Luciano Iglesias", year 2015.

**Services to the scientific community** **Reviewer** for the following journals: IEEE Access, Applied Science, Information. Publons profile available at <https://publons.com/researcher/3668336/dennis-dosso/>

The 42nd European Conference on Information Retrieval (ECIR2020) – **Member of the short paper committee**

Representative of the Ph.D. students of the School in Information Engineering, Department of Information Engineering, University of Padua, 2017–2019.

**Attended Schools** 6th International Winter School on Big Data (BigDat2020), Ancona, Italy - January 13-17, 2020

The 12th European Summer School in Information Retrieval (ESSIR 2019), July 15-19, 2019 Milan, Italy

**Other** I was the Department of Information Engineering (DEI) representative at the 2020 edition of the 3 Minute Thesis competition of the University of Padua, 1 April 2020 (competition held online due to COVID-19 pandemic). <https://ilbolive.unipd.it/it/event/three-minute-thesis-competition-2020>

Fabio Giachelle, Dennis Dosso and Gianmaria Silvello. "Search, access, and Explore Life Science Nanopublications on the Web", PeerJ Computer Science, 2020.

Dennis Dosso and Gianmaria Silvello, "Data Credit Distribution: A New Method to Estimate Databases Impact", Journal of Informetrics, pp. 28, 2020

Dennis Dosso, Susan B. Davidson, and Gianmaria Silvello, "Data Provenance for Attributes: Attribute Lineage", Proceedings of the ProvWeek 2020, 12th Workshop on Theory and Practice of Data Provenance (TaPP 2020)

Dennis Dosso and Gianmaria Silvello, Document-Based RDF Keyword Search System: A Query-by-Query Analysis, 28th Symposium on Advanced Database Systems, SEBD 2020.

Dennis Dosso and Gianmaria Silvello, Search Text to Retrieve Graphs: A Scalable RDF Keyword-Based Search System, IEEE Access, 2020. Institute of Electrical and Electronics Engineers Inc. Gold open access.

Dennis Dosso and Gianmaria Silvello, Virtual Document-based methods for Keyword Search on RDF datasets, Proceedings of the 10th Italian Information Retrieval Workshop (IIR 2019), CEUR Workshop Proceedings (CEUR-WS.org), pg. 38-39, vol. 2441

Dennis Dosso and Gianmaria Silvello, A Scalable Virtual Document-Based Keyword Search System for RDF Datasets, 42th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2019), pp. 965-968, ACM Press, New York, NY, USA, 2019

D. Dosso, "A Keyword Search and Citation System for RDF Graphs", 9th PhD Symposium on Future Directions in Information Access (FDIA), 2019, Milan, Italy. **Best presentation award.**

D. Dosso "Keyword Search on RDF Datasets", Advances in Information Retrieval - 41st European Conference on IR Research, ECIR 2019, Cologne, Germany, April 14-18, 2019, Proceedings, Part II. **Best Doctoral Consortium paper award.**

D. Dosso, G. Setti and G. Silvello "Learning to Cite: Transfer Learning for Digital Archives", In Proc. 15th Italian Research Conference on Digital Libraries (IRCDL 2019). Communications in Computer and Information Science book series (CCIS, volume 988), Springer, Heidelberg, Germany, 2019.

D. Dosso "Keyword Search on RDF Graphs" in Alonso O., Silvello G., editors, Proceedings of the Design of Experimental Search and Information REtrieval Systems (DESIREs 2018), page 99, August 28-31, 2018. CEUR Workshop Proceedings (CEUR-WS.org), Vol. 2167, ISSN 1613-0073.