

# Oifa SLAMA

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## RESEARCH INTERESTS

Graph database, fuzzy querying, preference queries, fuzzy database summaries, uncertain databases, data quality.

## DEGREES

[Since Nov. 2014] - **PhD.** student in Computer Science - Engineering School of Applied Science and Technology. (ENSSAT), France

PhD Subject Title: *Data Quality Management of Heterogeneous Graph data.*

Laboratory: *IRISA (University of Rennes 1), Data and Knowledge Management Department, Team SHAMAN*

*This thesis deals with the general problem of integrating and then analyzing heterogeneous data, for instance stemming from internal data sources of a company and external sources like open data published on the Web. We tackle this subject in cooperation with a start-up named SEMSOFT (Rennes, FRANCE), which produces a software chain for heterogeneous data integration. For this purpose, we defined a fuzzy extension of the SPARQL language called FURQL that goes beyond the previous proposals in terms of expressiveness inasmuch as it makes it possible i) to deal with fuzzy RDF data model, and ii) to express fuzzy preferences on data and on the structure of the data graph. For our ongoing work, we aim to extend the FURQL language with fuzzy quantifiers like we did in a previous work for the FUDGE language and integrate to this framework quality-related metadata (about freshness, reliability and so on) which are in general of a fuzzy nature. This thesis is partially funded by the French DGE (Direction Générale des Entreprises) under the project ODIN (Open Data Intelligence).*

[2012 - 2014] - **MSc.** Science and Technology of Business Intelligence - High Institute of Management of Tunis (ISGT), Tunisia

Dissertation titled “About alpha-cuts in bipolar and multipolar queries in relational databases”.

[2009 - 2012] - **BSc.** Computer Management - High Institute of Management of Tunis (ISGT), Tunisia

[2008 - 2009] - Bachelor of Science. Mathematics field - High School of Tunisia

## PROFESSIONAL EXPERIENCE

[Since November 2014] - Doctoral researcher - IRISA (University of Rennes 1), Data and Knowledge Management Department, Team SHAMAN

[2012 - 2014] - Research intern - IRISA (University of Rennes 1), Data and Knowledge Management Department, Team SHAMAN

[2009 - 2012] - Graduate Trainee - BIAT Tunis, International Arabic Bank of Tunisia

The design and development of a secure web application for the management and monitoring of credit files in Java Enterprise Edition.

## TEACHING ACTIVITIES

[Sept. 2015] - [Jun. 2016] - Research assistant - Engineering School of Applied Science and Technology. (ENSSAT), France - (64h/Year)

- C programming language (level 3)

- Relational Databases “MySQL”(level 3).

[Sept. 2013] - [Dec. 2013] - Contractual teacher - High Institute of Management of Tunis (ISGT), Tunisia

Teacher of practical work “Service Oriented Architecture” (level 3).

## PUBLICATIONS\*

\* The order of the authors in the paper is alphabetically sorted and is not based on the importance of contributions.

### International Conferences

O. Pivert, O. Slama, and V. Thion. *Fuzzy Quantified Structural Queries to Fuzzy Graph Databases*. In Proc. of the 10th International Conference on Scalable Uncertainty Management (**SUM’16**), Nice, France, 2016.

O. Pivert, O. Slama, and V. Thion. *An Extension of SPARQL with Fuzzy Navigational Capabilities for Querying Fuzzy RDF Data*. In Proc. of the 25th IEEE International Conference on Fuzzy Systems (**Fuzz-IEEE’16**), Vancouver, Canada, 2016.

O. Pivert, O. Slama, G. Smits, and V. Thion. *A Fuzzy Extension of SPARQL for Querying Gradual RDF Data*. In Proc. of the 10th IEEE International Conference on Research Challenges in Information Science (**RCIS’16**), poster session, Grenoble, France, 2016.

O. Pivert, O. Slama, G. Smits, and V. Thion. *SUGAR: A Graph Database Fuzzy Querying System*. In Proc. of the 10th IEEE International Conference on Research Challenges in Information Science (**RCIS’16**), demo session, Grenoble, France, 2016.

O. Pivert, O. Slama, and V. Thion. *SPARQL Extensions with Preferences: a Survey*. In Proc. of the 31st ACM Symposium on Applied Computing (**SAC’16**), Pisa, Italy, 2016.

J. Akaichi, L. Lietard, D. Rocacher, O. Slama: *On the Qualitative Calibration of Bipolar Queries*. In Proc. of the 22nd International Symposium on Methodologies for Intelligent Systems (**ISMIS’15**), Lyon, France, 2015.

### French Conferences

O. Pivert, O. Slama, and V. Thion. *FURQL : une extension floue du langage SPARQL*. In Actes des 32èmes Journées Bases de Données Avancées (**BDA’16**), Poitiers, France, 2016.

O. Pivert, O. Slama, and V. Thion. *Requêtes quantifiées floues structurelles sur des bases de données graphe*. In Actes des 25èmes Rencontres Francophones sur la Logique Floue et ses Applications (**LFA’16**), La Rochelle, France, 2016.

## RESERACH ACTIVITIES

[Sept. 2015] - Summer Research Student - EDBT Summer School 2015 - Palamos, Spain  
Participant in the “12th EDBT Summer School” about Graph Data Management.

[Sept. 2013] - MLSS 2013 - Hammamet TUNISIA  
Participant in a Summer School “Machine Learning Summer School on Big Data”.

[March 2013] - IWBBIO 2013 - Granada SPAIN  
Participant in the “International Work-Conference on Bioinformatics and Biomedical Engineering”.

**COMPUTER SKILLS**

Software: *Neo4j, protégé 2000, WinEdit, Weka 3.4, Matlab, Rational Rose, WampServer2.0,...*  
Languages: *HTML/CSS, XML, PHP/MySQL, JAVA, C++, J2EE, VB.NET, BPEL, SPARQL, Cypher, LaTeX, Prolog (notions)...*  
Databases: *Oracle, MySQL*  
Mastered concepts: *Semantic Web (RDF, RDFS, OWL), Graph Theory, Artificial Intelligence, Data warehouses, Advanced Data mining (SVM...), Knowledge Management (Fuzzy Sets theory, Possibility theory...), Machine learning (Decision Trees, Clustering, KNN, CBR ...), Graphical model (Bayesian Network ...), Cloud Computing, Information Systems, Software Engineering, Distributed Computing...*

**LANGUAGES**

English (*advanced*), French (*advanced*), Spanish (*intermediate*), Arabic (*native*)

**INTEREST**

Innovation, Reading, Traveling, Sports, Music...