

DR. SONIA SAID LAJMI
ASSISTANT PROFESSOR IN COMPUTER SCIENCE
DATA SCIENTIST
SENIOR MORE THAN 10 YEARS OF EXPERIENCE

COMPETENCY DOMAINS

Research interests

- MultiMedia Information retrieval
- Ontology
- Semantic and Social Web
- Contextual Recommender System
- Concept and Object detection/recognition
- Arabic Sign Language
- Machine Learning/Deep Learning
- Human-Computer Interaction
- Task model and User model
- Graph Matching

Teaching experience (selected courses)

Post-graduate courses

- Data Science, Research Master on AI.
- Statistics and probability, Research Master on AI.
- Human-Computer Interaction and Social Media, Research Master on E.S.E
- Human-Computer Interaction, Engineer on Information System Technology
- Multimedia Content Management using **C#**, Professional Master on Multimedia Engineering
- Multimedia Information retrieval, Professional Master in Information Systems Engineering

Undergraduate courses

- Computer Graphics
- Web development technology (**PHP, MySQL, HTML 5, CSS 3, Ajax, JavaScript**, etc).
- Relational Database
- Advanced Database (**RDF, XML, XPath, XQuery, NoSQL: MongoDB, Neo4j,...**, Data Warehouse)
- System Administration
- Object Oriented Programming (**Java**)
- Advanced Programming and data Structure using **C**
- Data Structures using **Java**
- Probability and Statistics
- Mobile Computing and Application using Android (with **Firestore, SQLite**)
- Introduction to machine architecture
- Data Science using **python**
- Object Oriented Design (**UML**)

Languages

- Arabic : mother language
- French: Excellent: read, written and spoken.
- English: Excellent: read, written and spoken.

Tunisian

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Married, one Child

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Researchgate: <https://www.researchgate.net/profile/Sonia-Lajmi>

dblp: <https://dblp.org/pid/18/6528.html>

Driving License

UNIVERSITY PROGRAMME

- **Dec. 2006- Mars 2011:** Ph.D. degree in Computer Science, from the French engineering university INSA (National Institute for Applied Science)-LYON (FRANCE).
 - Thesis prepared in LIRIS (Laboratory of Computing, Imaging and Information Systems).
 - Title of the thesis: **Contextual Annotation and Retrieval in socio-personal multimedia documents.** (<https://theses.hal.science/tel-00668689>)
- **2005-2006:** Master's degree in computer science: Research in Computer Science, National Institute of Applied Science, INSA Lyon.
 - Internship subject: **tracing the usage of image database.**
- **2001-2005:** Bachelor's in Computer Systems and Multimedia,
 - high Institute of Computer and Multimedia (ISIM) of Sfax, University of Sfax.
- **2001:** Baccalaureate, Mathematics (Sfax, Tunisia)

ACADEMIC CAREER

- **2015-Currently Assistant Professor-** Department of IT -
 - **Place:** College of Computer Science and IT-Al Baha University- Al Baha- Saudi Arabia
- **2011-2015.Assistant Professor** – Department of information technologies and multimedia-
 - **Place:** Higher Institute of Computer Science and Multimedia of Sfax. University of Sfax- Sfax- Tunisia
- **2009-2010: Teaching assistant-**Computer Science Department-Faculty of Science.
 - **Place:** Jean Monnet-Saint Etienne University - France
- **2008-2009: Teaching assistant** -Computer Science Department-
 - **Place:** INSA-LYON- University of Lyon- Lyon- France
- **2007-2008: Teaching assistant** - Electronic department-
 - **Place:** Faculty of Claude Bernard (UIT B), University of Lyon- Lyon- France
- **2006-2007: Teaching assistant**– Department of Information Technologies and multimedia.
 - **Place:** Higher Institute of Computer Science and Multimedia of Sfax-University of Sfax- Sfax- Tunisia

SKILLS IN EVALUATION AND OTHER ACADEMIC TASKS

I got involved in all the activities inherent to teaching definitions of courses, Assignments, practical Assignments, exams, and projects without forgetting the development and correction of the different examinations. During my last years of teaching, I have attended academic seminars, and I am:

- **Assistant of the Head of IT department** in the College of Computer Science at AlBaha University since 2018.
- **Coordinator of academic Advancing** in the College of Computer Science at AlBaha University from 2016-2018.
- **co-supervisor of three Phd Students:** 2 from Sfax University and 1 in guardianship between the University of Bordeaux and the University of Sfax

- **supervisor of 4 master Students:** 1 research master at INSA Lyon(University of Lyon) and 3 professional masters in ISIM Sfax University of Sfax
- **Supervisor of several projects' graduating** engineering students in third year, master's, or Bachelor students ISIMS since 2008.
- Supervisor of several undergraduate project's graduation Bachelor student College of Computer Science and IT at al Baha University 2016.
- Member or president of the jury of evaluation of students.
- Reviewer reports of candidates for teaching university as Lecturer (assistant grade in Tunisia)

MEMBERSHIPS

- **Ambassador for the Albaha region in KSA in Women in Data Science (WiDS).** I organized a workshop in 2023, and I participated as a speaker.
- **Since Dec. 2006** Member of Multimedia, Information Systems and Advanced Computing Laboratory (MIRACL Laboratory).
- **Since 2012:** Reviewer in the International Journal of Web Services Research (IJWSR) and others (IGI).
- **2007:** Member of the organizing committee in the conference ICDIM'07: The Second International Conference on Digital Information Management.
- **2009:** Member of committee program in RJCRI'09: 4th Dating Young Researchers in Information Retrieval, in parallel with the CORIA'09 conference.