

## PERSONAL INFORMATION



## Rim Fakhfakh

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Gender: Woman

Date of birth: 30/03/1987

Civil status: Married

Nationality: Tunisian

## POSITION

PhD in Computer Systems Engineering  
Engineer in Computer Science

Postdoctoral position / research engineer

## JOB APPLIED FOR

## MEMBERSHIP

- Since 2019 Member of the regional executive office of the association for Scientific Research and Innovation in Computer Science "ARSII-Sfax", Treasurer
- Since 2011 Member of the Research Groups on Intelligent Machines Laboratory, University of Sfax, Tunisia.
- Since 2011 Student Member of "IEEE: Institute of Electric and Electronic Engineering

## UNIVERSITY EDUCATION

- 2013 -2018 **PhD degree**
- **Specialty:** Computer Systems Engineering
  - **Research Laboratory:** Research Groups on Intelligent Machine (ReGIM)
  - **Institute:** National engineering school of Sfax
  - **Subject:** Promising Uses of Semantic Analysis and Personalization for Social Image Retrieval
  - **Supervisor:** Pr. Chokri Ben Amar
  - **Date:** 29-08-2018
  - **Grade:** Honorable
- 2011-2012 **Research Master degree**
- **Specialty:** New Technologies of Dedicated Computer Systems
  - **Research Laboratory:** Research Groups on Intelligent Machine (ReGIM)
  - **Institute:** National engineering school of Sfax
  - **Subject:** Concept Based Query Refinement in Image Retrieval
  - **Date:** 6-09-2012
  - **grade:** Excellent
- 2009-2011 **Engineer in computer science diploma**
- **Specialty:** Computer science
  - **Institute:** National engineering school of Sfax
  - **Subject:** Design and implementation of a functional prototype of license plate numbers recognition by the statistical approach under Linux
  - **Date:** 29-06- 2011
  - **Grade:** Excellent
- 2007-2008 **Preparation for admission to engineering polytechnics**
- **Specialty:** Math-Physics (MP)
  - **institute:** Sfax Preparatory Engineering Institute
- 2006 **Bachelor 's degree**
- **Section:** Math
  - **Grade:** Good

## INTERSHIPS

- Mai 2015 **Work-study internship**  
At research laboratory « Computer Science, Systems, Information and Knowledge Processing Laboratory » (LISTIC) in Annecy, France as part of monitoring the progress of my thesis work.
- February- June 2011 **End-of-study project internship**  
PivaSoftware : Design and implementation of a functional prototype of license plate numbers recognition by the statistical approach under Linux

Mars –April 2010	Technician internship ReGIM Lab: Development of an application for the management of a competition participants
15 July – 15 August 2009	Worker internship Ideryet Services: Maintenance, repair and reset some defective machines

## SKILLS

### CERTIFICATION AND COMPETENCES BADGES

2022	<ul style="list-style-type: none"> <li>➤ Oracle: Oracle Cloud Infrastructure Foundations 2021 Associate</li> <li>➤ IBM: Agile Intro</li> <li>➤ IBM: Natural Language Processing V3</li> <li>➤ IBM: Discover IBM Watson Services</li> <li>➤ Udemy: Advanced Foundations of Python Programming   2022 Training ».</li> </ul>
2021	<ul style="list-style-type: none"> <li>➤ Scrum-Study: Scrum Fundamentals Certified</li> <li>➤ IBM: Data Science &amp; Analytics Intro</li> <li>➤ IBM: Artificial Intelligence Intro</li> <li>➤ IBM: Artificial Intelligence V2</li> <li>➤ Udemy: Python Bootcamp 2021 build 15 working applications and games</li> </ul>
2015	<ul style="list-style-type: none"> <li>➤ UVT: C2i</li> </ul>

### DEVELOPEMNT PARADIGMS

Imperative and Procedural Programming language	C / Python / Matlab
Object-oriented programming	JAVA / Python / UML
Agility methodology	Scrum / Kanban

### DEVELOPPED TOOLS

2023	Prototype of a dashboard for data visualization with python
2022	Web application for students' assignment in college with python
2021	Prototype for textual document processing in natural language with python
2013-2018	Personalized image retrieval application according to user profile with java

### SOFTWARE DEVELOPMENT TOOLS

Programming languages	➤ Java/JEE, Python, C
Libraries	➤ OpenCV, Numpy, Pandas, PyTorch, NLTK, jdom, lxml, ...
Operating system	➤ Windows, Unix/Linux (ubuntu)
modeling language	➤ UML et Merise
IDE	➤ Matlab, Visual Studio, Eclipse, NetBeans, PyCharm, Spider, Jupyter
Database Management System	➤ MySQL, MongoDB, Access
Multimedia processing software	➤ Adobe Photoshop, Adobe Première, Adobe Audition
Web Development	➤ HTML, CSS, Javascript, XML, DTD, XSLT
Project management tools	➤ Trello, Jira Software
Collaborative framework	➤ Google Drive, Google Meet, Microsoft Teams, Zoom

### LINGUISTIC SKILLS

mother tongue	Arabic
Author languages	French (Advanced) English (Advanced)

### SCIENTIFIC ACTIVITIES

#### RESEARCH FIELDS

- Information retrieval
- Indexing
- Semantic web
- Machine Learning
- Natural language processing

**SCIENTIFIC PUBLICATIONS**

- Google scholar** <https://scholar.google.com/citations?hl=fr&user=YGlif0YAAAAJ>
- DBLP** <https://dblp.org/pid/118/3591.html>
- GitHub** <https://github.com/RimFakhfakh/>
- Journal papers**
- Deep Learning-Based Recommendation: Current Issues and Challenges, Rim Fakhfakh, Anis Ben Ammar, Chokri Ben Amar, International Journal of Advanced Computer Science and Applications (IJACSA) ISSN: 2158-107X, Volume 8, Issue 12 (2017) pp. 59-68
  - Query Disambiguation: User-centric Approach, Ghada Feki, Rim Fakhfakh, Anis Ben Ammar, Chokri Ben Amar. Journal of Information Assurance and Security (JIAS) . ISSN 1554-1010, Volume 11 (2016) pp. 144-156.
- Conference papers**
- Personalizing Information Retrieval: a New Model for User Preferences Elicitation, Rim Fakhfakh, Ghada Feki, Anis Ben Ammar, Chokri Ben Amar, IEEE International Conference on Systems, Man, and Cybernetics (SMC 2016), 9-12 October 2016 pp. 2091-2096.
  - Knowledge Structures: Which one to use for the query disambiguation? Ghada Feki, Rim Fakhfakh, Anis Ben Ammar, Chokri Ben Amar., 15th International Conference on Intelligent Systems Design and Applications (ISDA), 2015 IEEE pp 499-504.
  - Fuzzy User Profile Modeling for Information Retrieval, Rim Fakhfakh, Anis Ben Ammar, Chokri Ben Amar, KDIR 2014 (Knowledge Discovery and Information Retrieval), Rome, Italy, October 21-24, 2014: 431-436.
  - Enhancing query interpretation by combining textual and visual analyses, Rim Fakhfakh, Amel Ksibi, Anis Ben Ammar, Chokri Ben Amar, International Conference on Advanced Logistics and Transport (ICALT), 2013, pp. 170-175.
- Working Notes**
- REGIM@2016 Retrieving Diverse Social Images Task, Ghada Feki, Rim Fakhfakh, Noura Bouhleb, Anis Ben Ammar and Chokri Ben Amar, Working Notes Proceedings of the MediaEval 2016 Workshop, Hilversum, The Netherlands, October 20-21, 2016.
  - REGIMvid at ImageCLEF2012: Concept-based Query Refinement and Relevance-based Ranking Enhancement for Image Retrieval, Rim Fakhfakh, Ghada Feki, Amel Ksibi, Anis Ben Ammar, Chokri Ben Amar, CLEF, Rome, Italy, September 2012.

**SCIENTIFIC RADIATION****ORAL PRESENTATION IN INTERNATIONAL CONFERENCES**

- |                    |  |
|--------------------|--|
| 9-12 October 2016  | SMC: IEEE International Conference on Systems, Man and Cybernetics   |
| 21-24 October 2014 | IC3K / KDIR: International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management / International Conference on Knowledge Discovery and Information Retrieval |
| 29-31 Mai 2013     | ICALT: International Conference on Advanced Logistics and Transport  |

**PARTICIPATION IN THE ASSOCIATIVE LIFE**

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|------------|---|
| Since 2019 | Member of the regional executive office of the association for Scientific Research and Innovation in Computer Science "ARSII-Sfax"<br>Responsibility: Treasurer |
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**PARTICIPATION IN EVENEMENT ORGANISATION**

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|---------------------|--|
| 22 Juillet 2023     | ➤ Workshop « Social Media Mining : Application to hate speech detection »          |
| 11 mars 2023        | ➤ IN-TECH-ARSII Day 2023: « Artificial Intelligence »                              |
| 3 mars 2023         | ➤ ARSII DEV DAY  |
| 3 September 2022    | ➤ JAS'22: « Intelligent Medical System and Security »                              |
| 3 April 2021        | ➤ TOT « Training of trainers »   |
| 6 June 2020         | ➤ Stress Management  |
| 1 February 2020     | ➤ JAS'20: "Freelance Day"  |
| 18-20 December 2017 | ➤ 29-ème WIMTA: Workshop on Intelligent Machines: Theory & Applications            |
| 23-25 April 2010    | ➤ Robocomp'2010 organized by IEEE Robotics and Automation Society, Tunisia Chapter |

**PEDAGOGIC ACTIVITES****TEACHING**

- 2021-2022 **Contractual Assistant Professor**  
Institute: Higher Institute of Computer Science of Mahdia  
Subjects:
- Project management (Course / TP)
  - Indexing and referencing techniques (TP)
  - Indexing and Multimedia research (Course / TP)
  - Fundamentals and programming of AI (TP)
- 2020-2021 **Contractual Assistant Professor**  
Institute: Higher Institute of Computer Science of Mahdia  
Subjects:
- Multimedia Technologies (Course / TD)
  - Introduction to information systems (Course)
  - Indexing and multimedia search techniques (Course / TP)
  - Fundamentals of Artificial Intelligence (TD)
- 2019-2020 **Contractual Assistant Professor**  
Institute: Higher Institute of Computer Science of Mahdia  
Subjects:
- Multimedia techniques (Course / TD / TP)
  - Programming Workshop II: C language (Course)
  - Introduction to information systems (Course)
  - Indexing techniques and multimedia research (TP)
- 2018-2019 **Contractual Assistant Professor**  
Institute: Higher Institute of Computer Science and Multimedia of Sfax  
subjects:
- Digital image processing (TP)
  - Introduction to multimedia (TP)
  - Operating Systems I (TD)
  - Web Development I (TP)
- 2016-2017 **Part-time teacher**  
Institute: National engineering school of Sfax  
Subject: Introduction to Multimedia Systems (Matlab) (TP)
- 2015-2016 **Contractual Assistant Professor**  
Institute: Higher Institute of Computer Science and Mathematics Monastir  
Subjects:
- Fundamentals of artificial intelligence (TD)
  - Networks II (TD)
  - Data transmission (TD)
  - Markup language (TP)
- 2014-2015 **Part-time teacher**  
Institute: Sfax Business School  
Subject: Computer web networks (TD)

## STUDENTS SUPERVISING

- 2021-2022 **Contractual Assistant Professor**  
Institute: Higher Institute of Computer Science of Mahdia  
4 projects:
- Project 1: Web application for broadcasting a radio channel
  - Project 2: Web application for managing fixed asset inventory
  - Project 3: Web application for human resources management web application
  - Project 4: Web application for managing the financial resources of bank customers
- 2020-2021 **Contractual Assistant Professor**  
Institute: Higher Institute of Computer Science of Mahdia  
4 projects:
- Project 1: Mobile application for the institute ISIMA
  - Project 2: Web and mobile application for hiking management

- Project 3: Mobile application for stock management
- Project 4: E-commerce website

2019-2020

**Contractual Assistant Professor**

Institute: Higher Institute of Computer Science of Mahdia

3 projects:

- Project 1: Web application for health insurance management "Vit'assure"
- Project 2: Business communication management platform "Business Communication"
- Project 3: Web application for services management in a particular geographical area

2016-2017

**Part-time teacher**

Institute: National engineering school of Sfax)

3 projects

- Project 1: Improvement and optimization of the ShorTouch platform
- Project 2: Web application for rentals and flat shares
- Project 3: Modular web portal Application

2015-2016

**Contractual Assistant Professor**

Institute: Higher Institute of Computer Science and Mathematics Monastir

Project: Mobile application for Medical Assistance