

## Sarah ZANAFI

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### Interpersonal skills

- Collaborated with other scientists in research groups both in Italy and Morocco, outlining objectives, methodology, and conclusions, actively listening to people and stimulating interest and discussion.
- Collaborated and communicated at all professional levels, and with people from diverse origins and cultures.
- Can work both independently and in team settings.
- Experience in organizing big events (conferences, symposiums).
- Participated in several projects in parallel, planned work to achieve goals and targets on time.
- Attended introductory courses of management.

### Languages skills

Arabic: Mother Tongue

English : Advanced

French : Advanced

Italian: Advanced

Spanish : Conversational

### Academic Education:

- 2023: **PhD in Electronics and Telecommunications**, Center for Doctoral Studies in Sciences and Technologies, Faculty of Sciences, University of Abdelmalek Essaâdi, Tétouan.  
**Thesis Topic:** Optimization of Mobile Radio Resources for Next-Generation Networks.  
**(Thesis defended on March 6, 2023, with high distinction)**
- 2013: **Master's Degree in Telecommunication Systems Engineering**, Faculty of Sciences, University of Abdelmalek Essaâdi, Tétouan.
- 2011: **Bachelor's Degree in Science and Technology**, specializing in Electronics, Electrical Engineering, and Automation, Faculty of Sciences and Technology (FST), Tangier.
- 2010: **University Diploma in Scientific and Technical Studies (D.E.U.S.T)**, Faculty of Sciences and Technology (FST), Tangier.  
**Specialization:** Electrical Engineering / Mechanical Engineering.
- 2006: **High School Diploma**, specializing in Mathematical Sciences.

### Publications

- S. Zanafi, N. Aknin, M. "Optimization of Radio Resources for Next-Generation Networks," édition universitaires européennes, 2023
- S. Zanafi, N. Aknin, M. "Analysis of Cyclic Prefix length effect on ISI limitation in OFDM system over a Rayleigh-fading multipath channel," International Journal of Electrical and Computer Engineering (IJECE), 2021
- S. Zanafi, N. Aknin, M. "Channel Estimation for an OFDM System Based on Sending Pilots by LS and MMSE Techniques," International Journal of microwave and optical technology, Vol.16, No 4 2021
- S. Zanafi, N. Aknin, M. "Analytical model for life time in wireless sensor networks," Telecommunications Journal, Vol. 9, No 2 (2019)
- S. Zanafi, N. Aknin, M. Giacobbe, M. Scarpa and A. Puliafito, "Enabling Sustainable Smart Environments Using Fog Computing," 2018 International Conference on Electronics, Control, Optimization and Computer Science (ICECOCS), Kenitra, Morocco, 2018, pp. 1-6
- G. Campobello, A. Segreto, S. Zanafi and S. Serrano, "RAKE: A simple and efficient lossless

**compression algorithm for the Internet of Things,"** 2017 25th European Signal Processing Conference (EUSIPCO), Kos, 2017, pp. 2581-2585.

- G. Campobello, A. Segreto, S. Zanafi and S. Serrano, "**An Efficient Lossless Compression Algorithm for Electrocardiogram Signals,"** 2018 26th European Signal Processing Conference (EUSIPCO), Rome, 2018, pp. 777-781

- S. Zanafi, N. Aknin, "**Multi-Path Channel Estimation for OFDM Systems,"** Mediterranean Telecommunications Congress (CMT), 2016 May 12-13 Tetouan, Morocco.

### Adjunct courses and trainings

- 2023: **Pedagogical Supervisor for the Final Project** (Master's Degree in Telecommunications) at the Faculty of Sciences, Tétouan. Topic: 'Optimization of an Analytical Lifetime Model for Thread Wireless Sensor Networks' (6 months).
- 2022/2023: **Practical Work Course Instructor** for the module 'Signal Processing' (Electrical Engineering) at the Faculty of Sciences, Tétouan.
- Practical Work Course Instructor** for the module 'Communication Media' (Electrical Engineering) at the Faculty of Sciences, Tétouan.
- 2019: **Pedagogical Supervisor for the Final Project** (Master's Degree, Telecommunications course) at the Faculty of Sciences, Tétouan. Topic: 'Energy Optimization of an Analytical Model for IEEE 208.15.4 Sensor Networks' (6 months).
- 2018/2019: **Practical Work Course Instructor** for the module 'Communication Media' (Electrical Engineering) at the Faculty of Sciences, Tétouan.
- 2017/2018: **Visiting PhD Student** at the Department of Engineering, University of Messina (10 months).
- 2016/2017: **Erasmus PhD Student** at the Department of Engineering, University of Messina (10 months)
- 2015: **Practical Work Course Instructor** for the module 'Matlab' in the Computer Science element at the National School of Applied Sciences, Tétouan.
- 2013: **Final Internship** at INWI, Casablanca.  
Project: Study of the LTE standard and proposal for a solution to ensure coexistence with GSM, UMTS, and CDMA2000 (6 months).
- 2011: **Final Internship** at the Faculty of Sciences and Technology, Tangier (2 months).  
Project: Development of a multitasking control command application: Water level control using Labview.
- 2009: **Practical Training** at MARSAMAROC (2 months)
- 2008: **Introductory Training** at Lear Automotive Morocco S.A.S (2 months)

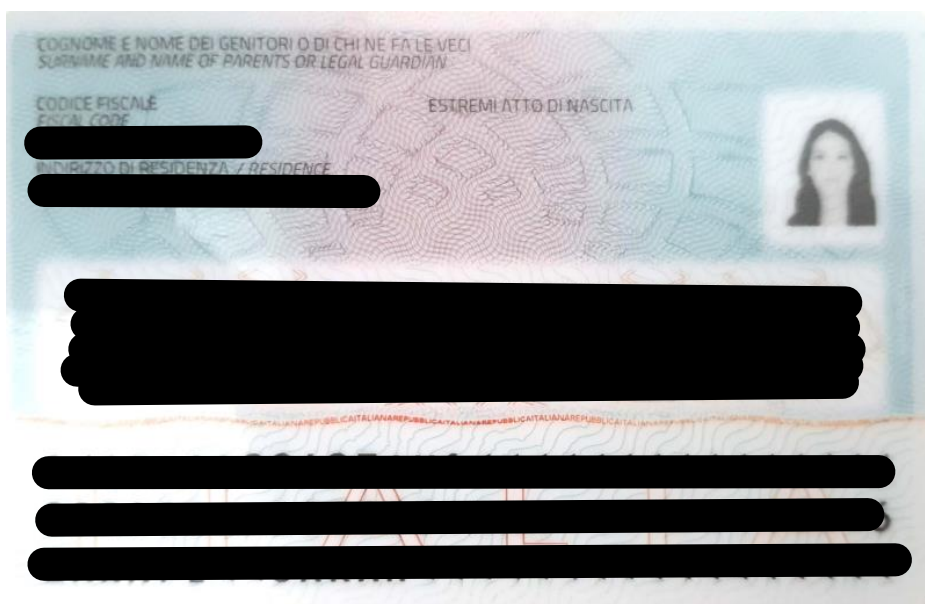
### Professional Experience

- 2021/2023 Doctoral Studies Center :
- Organizing and managing daily activities.
  - Handling correspondence and maintaining records.
  - Participating in special projects and initiatives.
  - Organizing events.
  - Supervising final year projects.
  - Participating in projects and special initiatives.
- 2019/2020 Analyst - Magneti Marelli :
- Analyzing data for management control and quality assurance of the production plant.
  - Collecting, processing, and interpreting data from various sources within the plant.
  - Monitoring production processes to detect anomalies or defects promptly.
  - Managing data resources and optimizing business processes in the SAP software.

- 2014/2016 Administrative -GreenEnergy Coop:
- Managing daily operational activities
  - Entering and managing data.
  - Handling correspondence
  - Organizing archives
  - Compiling reports
  - Supporting general administrative activities.

## Hobbies

- Travelling, Reading, Tennis.
- Community work: I am actively involved in community-run projects that aim to improve effectiveness and accessibility of underprivileged members in our city.
- Ex member of 'Rotaract Tanger Doyen'



I declare that the information provided in this curriculum vitae is accurate and true to the best of my knowledge.

Date: June 25, 2024

Signature: