

Slimene Sedrette

Head of Programming and Development Department,
Monastir Sciences Palace, Ministry of Higher Education and Scientific
Research, Tunisia.

Environment and georisk analyst researcher ,
Geotechnical Engineering and Georisk Laboratory,
University of Tunis El Manar, Tunisia.



Date of birth: 09/04/1977 **Phone :** +216 58405990 **E-mail:** ssedrette@gmail.com

EDUCATION

April 2017: Doctorate in geological science (Geomatics). El-Manar University, Tunisia.

Thesis title: Semi-automatic extraction of lineaments and morphometric indicators in a GIS environment for the morphostructural and neotectonic characterization of the Nefza region in North-West of Tunisia (translated).

February 2003: Postgraduate diploma (Master) in geological science: (environmental earth sciences). El-Manar University, Tunisia.

Project title: Study of geological and geotechnical parameters for the purpose of the stability analysis and the rehabilitation of an open pit sand mining site. Application to the sandstone quarry site of the Khledia region (Northeast of Tunisia) (translated).

July 1999: Bachelor's degree in Life and Earth Sciences. El-Manar University, Tunisia.

June 1995: Baccalaureate in experimental sciences. Secondary school of Mahares, Tunisia.

COMPETENCIES

IT KNOWLEDGE

- Windows, MS Office, MS Project, Internet.
- GIS and remote sensing software (ArcGis, Envi, PCI Geomatica, Erdas, Surfer).

LANGUAGES

Arabic: Mother language

French: Fluent

English: Good command

ACQUIRED SKILLS

- Well-developed oral and written communication skills;
- Project management and leadership experience; with openness to other people's ideas and to collaborative decision-making ;
- Science popularization and sharing science knowledge tools;
- Conduct geological and environment studies and help decision making in the field ;
- Numerical cartography, remote sensing and géodatabse (GIS) analyst skills ;
- Environmental impact assessment skills.

WORK EXPERIENCE

01 July 2015 – Present: **Monastir Science Palace** (www.psm.rnu.tn)

Head of Programming and Development Department

The Monastir Science Palace is a public institution in charge of science popularization, making science an inspiring and exciting experience for people of all ages;

- Coordination and administration of all aspects of an ongoing program including planning, organizing, staffing, leading, and controlling program activities;
- Develop new initiatives to support the strategic direction of the institution;
- Develop and implement long-term goals and objectives to achieve the successful outcome of the program;
- Develop an annual budget and operating plan to support the program;
- Develop a program evaluation framework to assess the strengths of the program and to identify areas for improvement;
- Enhancing and developing productive relationships with national and international partners.

Mars 2014- June 2015 : **Tunis Science City** (www.cst.rnu.tn)

Project manager (founder) of Tataouine Science Village

The science village's main objective is to contribute to the dissemination of science in southeastern part of Tunisia under the supervision of Tunis Sciences City.

- Coordination and supervision of the installation team of the scientific exhibits;
- Scientific and administrative staff supervision;
- Scientific mediation and visitor management;
- Cooperation and partnership with public and private institutions.

October 2013 – February 2014: Earth Sciences Department, El-Manar University, Tunisia.

Teaching Assistant (temporary)

Numerical cartography and GIS.

Mai 2009 – Mars 2014: **Tunis Science City**

Scientific coordinator project

- Conception and production of the scientific interactive exhibit project "Saharan Dinosaurs";

November 2002 – Mai 2009: **Tunis Science City**

Scientific Explainer (facilitator).

- Developing education programs for schoolchildren, teachers, families and the general public; perform scientific demonstrations and engage visitors in the process;
- Transfer of scientific knowledge and disseminating science through conferences, workshops, educational games, interactive exhibits, posters and educational files to a variety of audiences;
- Monitor museum exhibits. Troubleshoot and report malfunctioning exhibits and perform minimal exhibit maintenance;
- Research scientific exhibits for purchase or rental from international science centers and museums.

JOURNAL ARTICLES (https://www.researchgate.net/profile/Slimen_Sedrette)

- Sedrette S. & Rebai, N., 2019. Assessment Approach for the Automatic Lineaments Extraction Results Using Multisource Data and GIS Environment: Case Study in Nefza Region in North-West of Tunisia. 10.1007/978-3-030-21166-0_6.
- Rebai, N., Chaieb, A., Moussi, A. & Sedrette, S., 2019. Evaluation of Morphometric Indices SL, LP, AD for the Spatial Analysis of Neotectonics and Recent Crustal Deformations Case study: Atlas Central, Tunisia. 10.1007/978-3-030-21166-0_8.
- Sedrette S., Rebai N. & Mastere M., 2016. Evaluation of neotectonic signature using morphometric indicators: Case study in Nefza, North-West of Tunisia. *Journal of Geographic Information System* 08, pp. 338-350.
- Sedrette S. & Rebai N., 2016. Automatic extraction of lineaments from Landsat Etm+ images and their structural interpretation: Case study in Nefza region (North West of Tunisia). *Journal of Research in Environmental and Earth Sciences*, 4, pp. 139-145.
- Sedrette S., Rebai N. & Turki M. M., 2015. Développement d'une approche quantitative d'extraction semi-automatique des accidents tectoniques de la carte géologique de Nefza au 1 /50 000 en format shp. *Arabian Journal of Earth Sciences*, 2, pp. 53-64.
- Sedrette S., 2013. Traditional water management system in Tunisia: aridity and engineering (translated). Symposium on "water memories & tomorrow's landscapes", Vol. 2, 2013.
- Sedrette S. et al, 2011. Methodological approach for the rehabilitation of a sand quarry: Case study of Khledia quarries (translated). *Notes Serv. Geol. N°79*, 2011, ONM, Tunisia.

PAPERS PRESENTED AT PROFESSIONAL MEETINGS

- Sedrette S., 2017. Simplifying scientific knowledge: Mechanisms and competencies required. International Congress « The role of science centers and museums in the dissemination of scientific culture in the Arab Region » from 03 to 05 October 2017, Tunisia.
- Sedrette S. and Rebai N., 2015. Methodological approach for automatic extraction and geospatial processing of lineaments by remote sensing and GIS. Case Study: The Nefza region, North-West of Tunisia. First International Congress ISEE GEOMATICS, Tataouine, 25-26 March, 2015.
- Sedrette S. et Rebai N., 2013. GIS approach for semi-automatic extraction of tectonic accidents, case study: geological map of Nefza at 1/50000 (.shp). International Meeting of Geomatics Sciences, Rabat 08 and 09 April 2013.
- Sedrette S. et Rebai N., 2008. Automatic determination of the lineaments directions from the Nefza geological map (northwestern Tunisia). Tunisian Days of Applied Geology from 21 to 23 March 2008.
- Sedrette S., Houman B. and Guellali T., 2000. Modern and traditional water management system in Tunisia. Literature search, Department of Geology, FST.

MEMBERSHIP OF PROFESSIONAL SOCIETIES

- Member of Tunisian Association of Geomatics (ATG)
- Member of Tunisian Association of Applied Geology (ATGA).

References – Available on request.