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Education

- Jan 2015-Jul 2019: **PhD in Environmental Sciences/ Environmental Biology**, Leicester University.

"AN ENVIRONMENTAL STUDY OF THE FACTORS CONTRIBUTING TO THE CONTROL OF *ARTHROSPIRA* SPP. IN EAST AFRICAN SODA LAKES (LAKE BOGORIA, KENYA) ".

Supervisors: Prof. Martha Clokie & Prof. David Harper

- Fall 2009-2010: **MSc in Environmental Sciences**, The Libyan Academy.

"The Evaluation of the Environmental Effect of Salt Water Irrigation on Citrus Trees in Al-Ameria Area".

Supervisors Dr. Mohamed Ismail & Dr. Taher Yahia

- Fall 1995-1996: **BSc in Botany**, Faculty of science, Tripoli University, Libya

Personal Statement

Ecologist and Environmental biologist with a wide range of experiences in undergraduate lecturing and research projects supervision. Active team player, who is capable of showing own initiative. Motivated individual driven to provide customer satisfaction.

As an independent, self-motivated and tactful individual I feel such personal qualities have enabled me to be an effective practitioner, along with empathy and honesty when working with students in multi-disciplinary team working. I feel I am also enthusiastic and creative which are vital assets when working

with university education and research projects. I enjoy the responsibility and the challenge of working with university students and job colleagues and I have a good deal with students who are slower to learn. I am able to communicate well with both students and staff. In the class I have learnt to communicate effectively, emulating the methodology of the staff and observing the response of the students. Taking note of the individual feedback from the staff and students, I have built my capabilities and feel prepared of my next academic role ahead.

Research Area

- Environmental sciences, Environmental biology, Environmental microbiology, understanding the science of biodegradation of petroleum hydrocarbons (Phytoremediation, mycoremediation) and characterising the microbial communities of the oil products using genetic tools.
- Sampling and Analysis
- Bioremediation for removal of degradable organic pollutants
- Bioinformatics software and tools
- Aquatic ecosystem (Cyanobacteria and cyanophages)
- Phytoremediation
- Produced water analyses

Teaching Interests

- Ecology and ecosystems
- Environmental biology and environmental microbiology
- Botany I and II
- Environmental pollution
- Plant physiology
- Biology and Microbiology
- Environmental Sampling and Analysis
- Marine Environment

Employment History

Full time

- 1998-2009: Biology teacher at Al-Ameria secondary school.
- 2010 -2011: Instructor for cell biology & ecology and ecosystems at Environmental Technology Department, Petroleum Training and Qualifying Institute (PTQI), Tripoli, Libya.
- Sep 2011-Sep 2019: Assistant Lecturer at Department of Biology, faculty of Education Qasar Bin Ghashir / University of Tripoli, Libya.
- Sep 2019- Apr 2023: Lecturer at Department of Biology, faculty of Education Qasar Bin Ghashir / University of Tripoli, Libya.
- Apr 2023 – present Professor Assistant at Department of Biology, faculty of Education Qasar Bin Ghashir / University of Tripoli, Libya.

Part time

- Fall, spring 2010 and spring 2011 semesters: Assistant Lecturer at Higher Institute for Inclusive Professions, Department of Agricultural Technology, Zahraa, Libya.
- Fall 2010: Assistant Lecturer and supervision of a graduation project at Department of Biology, Faculty of Education (Gasar Bin Ghashir), University of Tripoli, Libya.
- Spring 2018 and fall 2019 semesters: Demonstrator for BS 1040 Microbiology and Cell Biology at the University of Leicester, UK.
- 2020-2022: Lecturer for environmental sampling and analysis at PTQI, Tripoli, Libya.

Communication skills

Through giving lectures, seminars and presentations and attending workshops and conferences, I acquired confidence in talking in public.

IT Skills

- Extensive knowledge of Microsoft Office programs

- Statistical analysis software such as SPSS, Prism, Primer, R.
- Bioinformatics analysis software such as Geneious, Prokka, Circos, Rast, Roary, LS-BSR, Muave, Artemis.
- Linux operating system.

Scientific and administrative positions

- Fall 2012: Head of the Study and Examinations, Department of Biology, faculty of Education Qasar Bin Ghashir / University of Tripoli, Libya.
- 2016-2018: I was a member of a scientific group as a mentor to two MSc students. Leicester University, UK.
- 2021- Present: head of the Scientific Committee, Department of Biology, faculty of Education Qasar Bin Ghashir / University of Tripoli, Libya.
- Jun 2022: I was a member of the faculty standard committee for programmatic institutional accreditation of the faculty of Education, Qasar Bin Ghashir, Tripoli University, Libya.
- Jan 2023: I am a member of the committee for sorting and arranging the files of faculty members, the faculty of Education, Qasar Bin Ghashir, Tripoli University, Libya.

Scientific websites membership

- Research Gate
- Google Scholar
- EndNote Web
- Refworks Web
- Mendeley

Workshop, conferences and seminars

- 05–09–2022 Analytical Risk Assessment of Volatile Petroelum Hydrocarbons Spill in the Vadose Zone: Energy in Libya between

efficiency, development and appropriateness Workshop. Alhadera University, Tripoli, Libya

- Apr 2005: Laboratory workshop, Libyan Ministry of Education.
- 23-1-2011 to 27-1-2011: Industrial wastewater treatment workshop, Libyan World Energy Organization office, Tripoli, Libya
- Viruses of Microbes 2016 Conference, Liverpool, UK
- Oxford Bacteriophage Conference-Phage 2017, UK
- DNA and RNA sequencing and analysis workshops, Leicester 2016 and 2017, UK.
- Linux operating system Workshop, Leicester 2016-2017, UK.
- CGR & NERC Metagenomics Workshop, Liverpool 2017, UK.
- R statistics Workshop, Leicester 2017, UK.
- Advanced SPSS Workshop, Leicester 2018, UK.

Publications

- “ Towards understanding Lesser Flamingo unpredictability in East Africa; what might cause crashes in their major food item at a lake? Flamingo”

Journal of the IUCN SSC WI Flamingo Specialist Group, Flamingo 2018, (71-75).

- “An environmental study of factors contributing to the control of *Arthrospira* spp. in east African soda lakes (lake Bogoria, Kenya)”, PhD thesis.
- “Does Type of Food Affect the Prey Preferences of Three-Spin Sticklebacks?”

Journal of Marine Science and Environmental Technologies, (June-2021), Vol. 7, Issue No. 1, E1-12.

- “Laboratory scale bio-stimulation of Volatile Petroleum Hydrocarbons contaminated soil by indigenous microorganisms”
- 3rd Euro-Mediterranean Conference for Environmental Integration 10-13 June 2021. Sousse, Tunisia (Accepted)

- “Phyto-remediation of Petroleum Hydrocarbons in Drilling Tailings, Libya”

Libyan Journal of Ecological & Environmental Sciences and Technology (LJEEST), Vol.4 No. 2 December 2022(33-40).

- “ Characterization of the bacterial community structure and physicochemical properties of produced water from A4 well, north Hamada oilfield in Libya”

The Libyan Journal of Science- University of Tripoli Vol. 25, No. 02 (2022) 47-57.

- "Genotypic identification of oil-degrading bacterial isolates and physicochemical characterisation of produced water from the El-Faragh gas field in Libya"

THE LIBYAN JOURNAL OF AGRICULTURE Volume (27): No. (2), 2022: 64 – 79.

Referees

Available on request