



Zeinab H. Arabeyyat

BSc, MSc, PhD, AFHEA

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EDUCATION

- Sept 2013 – Dec 2016** **Doctor of Philosophy in Biological Sciences**
Specialization: Nanotoxicology
University of Hull, United Kingdom.
Thesis title: “**Molecular Level Biological Effects of Silver and Titania Nanoparticles on Zebrafish Embryos**”.
- 2017** **Associate Fellowship of the HEA**
The UK Professional Standards Framework (UKPSF) for teaching and supporting learning in higher education, United Kingdom.
- 2011 - 2012** **PhD in Horticulture and Crop Science**
University of Jordan, Amman, Jordan
(Dropped out after 1 year after awarded a full scholarship from the University of Jordan to purchase PhD in UK).
- 2008** **M.Sc. degree in Biotechnology**
Al-Balqa’ Applied University, As-Salt, Jordan.
Thesis title: “Detection of Salts and Pathogenic Bacteria in Soils Irrigated by Greywater”.
- 2003** **B.Sc. degree in Water Resources and Environmental Management**
Al-Balqa’ Applied University, As-Salt, Jordan.

ACADEMIC EMPLOYMENT

- Sept 2018 - Sept 2020** **Head of Department**
The University of Jordan, School of Basic and Marine Sciences,
Head of Department of Marine Biology and Department of Coastal Environment. Aqaba, Jordan.

- May 2017 - Present** **Assistant Professor**
University of Jordan, Department of Marine Biology
Aqaba, Jordan.
- May 2014 – April 2017** **Demonstrator (Academic)**
University of Hull, School of Biological, Biomedical &
Environmental Sciences, UK.
- Jan 2009 – Jan 2010** **Research Assistant**
A-Balqa' Applied University, As-Salt, Jordan
Project entitled "The Potential Use of Recycled Vertical Flow
Bioreactor (RVFB) to Recycle Greywater for Irrigation in Jordan".
- Sep 2006 – Feb 2008** **Research Assistant**
A-Balqa' Applied University, As-Salt, Jordan
Project entitled "Detection of Salts and Pathogenic Bacteria in
Soils Irrigated by Greywater".
- Jun 2006 – Jun 2007** **Research Assistant**
A-Balqa' Applied University, As-Salt, Jordan
Project entitled "Integrated Management for Phosphate Mines
Water in Al-Abyad Mines (Al-Hassa)".
- Dec 2005 – Feb 2007** **Research Assistant**
A-Balqa' Applied University, As-Salt, Jordan
Project entitled "Effect of Gray Water on Growth and Nutrients
Absorption of Tomato Plant".

AWARDS

- 2020** **Fulbright Junior Faculty Development Program (JFDP) fellowship.** US (postponed to 2021 due to the COVID-19 pandemic).
- 2019** **Erasmus+ teaching mobility scholarship** at University of Almeria, Almeria, **Spain.**
- 2016** **Best Young Researcher Award** Awarded by the 7th Euro-Global Summit on Toxicology and Applied Pharmacology, Rome, **Italy.**
- 2015** **Postgraduate Certificate in Research Training** Awarded by the University of Hull for pursued the prescribed courses of study and satisfied the examiners, Hull, **UK.**
- 2012** **PhD full scholarship** Awarded by the University of Jordan, Amman, **Jordan.**

RESEARCH GRANTS

- 2019** **PI, (Awarded).** "Molecular diversity of zooxanthellae (*Symbiodinium spp.*) within coral species in the Gulf of Aqaba, Red Sea", JOD 14,000, Deanship of Scientific Research, The University of Jordan. Amman, Jordan.

PROFESSIONAL AFFILIATIONS AND SERVICES

- 2020** Attended an International Webinar from Finland about “Scanning Electron Microscopy (SEM) Technique” run online via Zoom by Dr. Ramzy Abdelaziz on September, 2020.
- 2020** Participated in “E-Learning workshop for teaching staff” on March, 2020 at the University of Jordan- Aqaba, Jordan.
- 2020** Attended “The ceremony of launching and operating the reverse vending machines, and announcing the outputs of the (Reducing Marine Waste in Aqaba) project” on January, 2020 at Aqaba Marine Park Visitors Center. Aqaba, Jordan.
- 2019** Attended “Fulbright Scholarships” workshop on November, 2019 at the University of Jordan- Aqaba, Jordan.
- 2019** Attended “Seminar on the Reform of Higher Education based on EU Experience” on November, 2019 at the University of Jordan- Aqaba, Jordan.
- 2019** Attended “Fulbright Master’s Degree Scholarships” workshop on November, 2019 at the University of Jordan- Aqaba, Jordan.
- 2019** Participated in the workshop “JORDAN MARITIME GOVERNANCE (JOR3)” Under the EU-Funded Integrated Maritime Policy (IMP) and Blue Economy (BE) – MED Project on April 16-17, 2019 at Double Tree by Hilton hotel. Aqaba, Jordan.
- 2019** Attended the Second Stakeholders Workshop Provisional Program for “Assessment and Revision of the National Coastal Environmental Monitoring Program, Aqaba, Jordan (NCEMP)”, Organized by the United Nations Development Program “UNDP”, Amman-Jordan and Aqaba Special Economic Zone Authority “ASEZA” on February 5, 2019. Aqaba, Jordan.
- 2018** Attended the Introductory Workshop Provisional Program for “Assessment and Revision of the National Coastal Environmental Monitoring Program, Aqaba, Jordan (NCEMP)”, Organized by the United Nations Development Program “UNDP”, Amman-Jordan and Aqaba Special Economic Zone Authority “ASEZA”, on December 12, 2018. Aqaba, Jordan.
- 2018** Participated in the workshop “How to write a competitive project proposal” Organized by National Erasmus+ Office – Jordan and funded by the Erasmus+ Programme of the European Union on November 21 & 22, 2018 at the University of Jordan- Aqaba, Jordan.
- 2018** Presented a talk about “Effect of Nanotoxicity on Human and Environment” Organized by the Marine Science Station (MSS), on October 17, 2018 at the University of Jordan, Aqaba, Jordan.
- 2018** Erasmus+ Academic Coordinator of the Mobility. Coordinate academic staff

mobility from the University of Almeria, Spain. **22-26 July, 2018** at the University of Jordan and the Marine Science station (MSS). Aqaba, Jordan.

- 2018** **Participation in the “Training Workshop on Developing Leadership Talents of Women in Science, Technology and Innovation (STI)”**. Organized by the International Science, Technology and Innovation Centre for South-South Cooperation under the Auspices of UNESCO (ISTIC); Ministry of Energy, Technology, Science, Climate Change and Environment; and the United Nations Education, Science and Cultural Organization (UNESCO) on **July 17-20, 2018** in Kuala Lumpur, Malaysia.
- 2018** **Participation in the “The BLUEMED Strategic Research and Innovation Agenda –National Meeting for Non-EU Countries Workshop (National Consultation Day-BLUEMED)”**. Organized by the European Commission, the Higher Council for Science and Technology (HCST), and the Union for the Mediterranean on **July 3, 2018** at HCST. Amman, Jordan.
- 2018** **Attending the “1st International Seminar on (Research and Innovation Technologies in Water Sector for the Achievement of SDG6’s”**. Organized by ISESCO, ACWUA, SESRIC and the University of Jordan on **June 26-28, 2018** in the University of Jordan. Amman, Jordan.
- 2018** **Participation in the “Workshop on Strengthening Capacities & Awareness on Communication & Cooperation on Water Security Challenges & Water Goals within the 2030 Agenda for Sustainable Development”**. Organized in the framework of the WATER SUM Project, which is implemented by the Regional Environmental Center (REC) and financed by the Government of Sweden through the Swedish International Development Cooperation Agency (SIDA) on 12-13 February, 2018 in Hotel Geneva. Amman, Jordan.
- 2017** **Participation in “Workshop on Professional Public Safety”**. Organized by the Aqaba Special Economic Zone Authority (ASEZA) and the Vocational Training Corporation, and in cooperation with the Japan International Cooperation Agency (JICA). Movenpick Resort & Residences Aqaba, Jordan.
- 2017** **Participation in ‘Workshop on the role of academic sector in supporting the ecosystem services in Aqaba’**. Participate with a talk about **“Effect of Nanotoxicity on Human and Environment”**. This workshop was organized by the Royal Marine Conservation Society of Jordan (JREDS) and the Marine Science Station/The University of Jordan and supported by the sustainable use of eco system services in Jordan project (EKF ESS) funded by the German federation through GIZ. Movenpick Resort & Residences Aqaba, Jordan.
- 2017** **Staff Development Workshops**. Certificate in attendance from the Accreditation and Quality Assurance Center, University of Jordan, Amman, Jordan.
- 2014** **Conference Organizer**. Certificate in organization to organize with scientific committee in the 5th PhD Experience Conference, University of Hull, UK.

- 2014** **Certificate in “Introduction to Teaching for Postgraduate Researchers Programme”** and attended the following workshops: Student Learning, Small Group Learning, Assessment & feedback, Critical Reflection & Professional Development, Technology Enhanced Learning. University of Hull, UK.
- 2008** **Participation in The Regional Training Workshop on: "Scientific Methodology and Proposal Writing"**, organized by the Inter – Islamic Network on Water Resources Development and Management (INWRDAM), Amman, Jordan and the International Foundation of Science (IFS), Sweden. Amman, Jordan.
- 2005** **Conference Organizer.** Thank you letter to organize in the 5th Agricultural Scientific Conference, Al-Balqa’ Applied University, As-Salt, Jordan.
- 2004** **International Computer Driving Licence.** Awarded by the UNESCO Cairo office, a designated licensee for the International Computer Driving Licence.

MEMBERSHIP

Member - The Royal Marine Conservation Society of Jordan (JREDS)

Aqaba, Jordan
2018-present

Member - American Association for the Advancement of Science (AAAS)

Washington, D.C., United State
2016-present

Member - Agricultural Engineers Association

Amman, Jordan
2003-present

PUBLICATIONS

PUBLISHED ARTICLES

Arabeyyat, Z.H., Al-Awady, M.J., Greenway, G.M. et al. Toxicity of polyelectrolyte-functionalized titania nanoparticles in zebrafish (*Danio rerio*) embryos. SN Appl. Sci. 2, 1312 (2020). <https://doi.org/10.1007/s42452-020-3137-x>.

Khalaf, M. A., Al-Horani, F. A., Manasrah, R. S., and **Arabeyyat, Z. H.** (2020). Development of Fish Communities in Artificial Lagoons in the Gulf of Aqaba, Red Sea. Fresenius Environmental Bulletin, 6, 4488–4496.

Qiang, L.; **Arabeyyat, Z.H.**; Xin, Q.; Paunov, V.N.; Dale, I.J.F.; Lloyd Mills, R.I.; Rotchell, J.M.; Cheng, J. Silver Nanoparticles in Zebrafish (*Danio rerio*) Embryos: Uptake, Growth and Molecular Responses. Int. J. Mol. Sci. 2020, 21, 1876.

Alrowwad, A.; Manasrah, R.; Alsawalmeh, A.; Rasheed, M.; Kteifan, M.; Soleiman, A.; **Arabeyyat, Z.**; Al-Saad, A.; Barnett, S. Practices of Coastal Zone Management of the Jordanian Gulf of Aqaba by Mapping Spatial Convergence of Seafront Human Activities and their Potential Impact on the Marine Environment. FEB. 2020, 29, 3240-3253.

MANUSCRIPTS IN PREPARATION/SUBMITTED FOR REVIEW _____

Arabeyyat, Z., Al-Zu'bi, Y, and Dababneh, B. (in preparation). Microbial Quality of Greywater.

CONFERENCE PRESENTATIONS _____

ORAL

Arabeyyat, Z. H., Paunov, V. N., Cheng, J., & Rotchell, J. M. (2016). Biological Effects of Nanoparticles on Fish. Talk presented at the 7th *Euro-Global Summit on Toxicology and Applied Pharmacology*, **Rome, Italy**.

Arabeyyat, Z. H., Paunov, V. N., Cheng, J., & Rotchell, J. M. (2016). Biological Effects of Nanomaterials on Fish. Talk presented at the *Postgraduate Research Day*, University of Hull, **UK**.

Arabeyyat, Z. H., Paunov, V. N., Cheng, J., & Rotchell, J. M. (2015). Biological Effects of Nanomaterials on Fish. Talk presented at the *Postgraduate Research Day*, University of Hull, **UK**.

Arabeyyat, Z. H. (2008). Chemical Characterization of Soil Irrigated by Greywater. Talk presented at the *Open Scientific Day about Greywater Reuses (INWRDAM)*, **Amman, Jordan**.

Arabeyyat, Z. H. (2007). Greywater reuse. Talk presented at the *Mayor of Salt*, **As-Salt, Jordan**.

POSTERS

Arabeyyat, Z. H., Paunov, V. N., Cheng, J., & Rotchell, J. M. (2015). Biological Effects of Nanomaterials on Fish. Poster presented at the 18th *International Symposium on Pollutant Responses in Marine Organisms*, **Trondheim, Norway**.

Arabeyyat, Z. H., Paunov, V. N., Cheng, J., & Rotchell, J. M. (2015). Biological Effects of Nanomaterials on Fish. Poster presented at the 6th *PhD Experience Conference*, University of Hull, **UK**.

Arabeyyat, Z. H., Paunov, V. N., Cheng, J., & Rotchell, J. M. (2014). Biological Effects of Nanomaterials on Fish. Poster presented at the *Postgraduate Research Day*, University of Hull, **UK**.

TEACHING EXPERIENCE

TEACHING ASSIGNMENTS

Summer semester 2019 – present	Applied Microbiology , University of Jordan - Aqaba
Summer semester 2019 – present	Seminar , University of Jordan - Aqaba
First semester 2018 – present	Microbiology (Theory and Practical), University of Jordan – Aqaba
Second semester 2018 - present	Biotechnology , University of Jordan – Aqaba
First semester 2017 - present	Molecular Biology (Theory and Practical), University of Jordan - Aqaba
First semester 2017 - present	Molecular Evolution , University of Jordan - Aqaba
First semester 2017 - present	Marine Biotechnology , University of Jordan - Aqaba
Summer semester 2017 - present	Cell Biology , University of Jordan - Aqaba

TEACHING ASSISTANTSHIPS

Autumn 2014 - Spring 2017	Chemistry of Life , University of Hull, UK
Autumn 2016 - Spring 2017	Diversity of Life , University of Hull, UK
Autumn 2015 - Winter 2016	Skills for Human and Biomedical Sciences , University of Hull
Autumn 2014 - Autumn 2015	Maths Help workshop , University of Hull, UK
Autumn 2015 - Spring 2017	Cell Structure and Function , University of Hull, UK
Autumn 2015	Skills for Biologists , University of Hull, UK
Autumn 2014	Clinical Disciplines , University of Hull, UK
Autumn 2014	Skills for Biological Sciences , University of Hull, UK
Autumn 2014	Microbiology , University of Hull, UK

FIELD ASSISTANTSHIPS

Autumn 2015	Skills for Biologists , University of Hull, Scarborough, UK
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SKILLS & INTERESTS

Biotechnology, Molecular Biology, Gene Isolation and Characterization, Gene Expression, Metagenomics, Histology, Nanotoxicology and Bioinformatics.

LANGUAGES

Arabic: Native language
English: Fluent

REFERENCES

Upon request