

## CURRICULUM VITAE

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### Short Bio

Dr. Howari stands as a distinguished scientist, engineer, and administrator with over 25 years of experience spearheading and overseeing academic activities, policies, and initiatives meticulously crafted to foster student growth and academic triumph. Widely recognized for his mastery in developing comprehensive, secure, scalable, performance-optimized, and maintainable solutions, Dr. Howari consistently delivers exceptional outcomes. His remarkable ability to execute intricate and diverse tasks, coupled with his proficiency in providing expert decision support across a wide spectrum of domains, including Human Resource Management, Budget Management, Academic Affairs, Organizing, and Faculty, Student, and Staff Management, establishes him as a versatile professional with an unparalleled breadth of expertise.

Boasting an outstanding track record in securing external research funding, Dr. Howari effectively leverages his solid scientific foundation to tackle complex challenges with remarkable precision. His hands-on experience encompasses the entire education system, spanning administration to strategic leadership. Dr. Howari's exceptional teamwork, adaptability, and leadership skills empower him to seamlessly conceive, coordinate, and direct project-based endeavors, even when managing large teams. His research, teaching, and outreach interests span multiple multidisciplinary fields, reflecting a profound passion and curiosity for advancing knowledge across diverse frontiers.

### CAREER TIMELINE

- **2024-Present**, Dean of the College of Humanities and Social Sciences and Director for the University General Education Programs, Ajman University, UAE
- **2022- 2024** Interim Vice Provost and Dean, College of Arts and Sciences, Fort Valley State University
- **2014-2022** Dean, Founding Dean of the College of Natural and Health Sciences | Acting Dean, College of Social Sciences and Humanities, Zayed University (concurrent appointment).

- **2011-2014** Chair, Department of Applied Sciences & Mathematics, Abu Dhabi University Director, Environmental Science Program/ **Managing Director**, Center of Excellence for Environmental Health and Safety, Abu Dhabi University (concurrent appointment)
- **2009-2011** Coordinator of the Environmental Sciences Program | Professor of Environmental Sciences, University of Texas of the Permian Basin.
- **2007-2009** Associate Professor of Environmental Sciences/ Bureau of Economic Geology | Research Coordinator, Center for International Energy and Environmental Policy, University of Texas, Austin.
- **2002-2007** Associate Professor of Environmental Sciences, Joint appointment college of Science and College of Engineering, UAEU.

## EDUCATION

- **PhD**, Environmental Sciences and Engineering, University of Texas at El Paso, USA.
- **BSc and MSc**, Earth and Environmental Sciences/Environmental Geochemistry, Yarmouk University, Jordan.

## SIGNATURE SKILLS

- Dedication to professional and program development
- Expertise in evaluation and quality assurance/quality control (QA/QC)
- Proficient in multitasking and strong quantitative skills
- Strategic involvement in institutional planning and effectiveness
- Capability in faculty evaluation and academic program review
- Commitment to shared governance
- Outstanding interpersonal skills and excellent oral and written communication skills
- In-depth understanding of emerging technologies
- Effective application of instructional technologies

## LEADERSHIP AS DEAN

**2024-Present, Dean of the College of Humanities and Social Sciences and Director for the University General Education Programs, Ajman University, UAE**

### Academic Leadership

- **Program Development:** Overseeing the development, review, and updating of undergraduate and graduate programs within the college, ensuring they align with the university's mission and meet accreditation standards.
- **Faculty Recruitment and Development:** Identifying, recruiting, and retaining qualified faculty members, as well as providing opportunities for faculty development and professional growth.
- **Curriculum Development:** Ensuring the curriculum is relevant, challenging, and meets the needs of students and the job market.

- Student Advising: Providing guidance and support to students, including academic advising, career counseling, and resolving student issues.

#### General Education Program Oversight

- Curriculum Design: Developing and implementing a comprehensive general education curriculum that provides students with a broad foundation of knowledge and skills.
- Interdisciplinary Collaboration: Fostering collaboration between different academic disciplines to ensure a well-rounded general education experience.
- Assessment and Evaluation: Assessing the effectiveness of the general education program and making necessary adjustments to improve student learning outcomes.
- Alignment with University Goals: Ensuring that the general education program aligns with the university's overall mission and strategic objectives.

#### Administrative Responsibilities

- Budget Management: Managing the college's budget, allocating resources effectively, and ensuring financial sustainability.
- Resource Allocation: Allocating resources, such as faculty, staff, and facilities, to support the college's academic programs and general education initiatives.
- External Relations: Building and maintaining relationships with external stakeholders, including alumni, donors, and community partners.
- Compliance: Ensuring compliance with university policies, accreditation standards, and government regulations.

#### 2022- 2024 Interim Vice Provost and Dean, College of Arts and Sciences, Fort Valley State University

In the capacity of Dean, I undertook a diverse range of academic, administrative, and leadership responsibilities, concentrating on the oversight and advancement of educational and research programs, faculty development, and student success. A central theme throughout was the commitment to fostering inclusivity and belonging, promoting scholarship, and identifying, recruiting, and nurturing exceptional talent at all levels. Here are notable functions and achievements:

- **Program Enhancement:** Elevated the performance of underperforming programs through structural improvements, robust marketing and branding strategies, AI marketing utilization, student pairing approaches, and impactful radio and TV campaigns.
- **Representative Roles:** Acted as the representative of the Provost and Vice President for Academic Affairs in various capacities.
- **Interdisciplinary Program Development:** Pioneered the creation of innovative interdisciplinary programs, including cybersecurity management and healthcare administration.

- **Optimized Scheduling:** Collaborated with the team to optimize scheduling, balance workloads, and enhance overall scheduling efficiency.
- **Recruitment and Retention Initiatives:** Instituted impactful initiatives to boost recruitment and retention, such as dual degree programs, summer camps, quiz bowls, open houses, advisor training, and the introduction of KNAK Math Café.
- **Curriculum Revamp:** Successfully revamped the computer science curriculum to align with market demands.
- **Strategic Collaborations:** Established Memoranda of Understanding (MOUs) for 3+2 programs in Pharmacy with community colleges.
- **Operational Procedures:** Developed and implemented operational procedures for assessment and evaluation in alignment with system policies.
- **Core Courses Refresh:** Led the core courses refresh project.
- **Infrastructure Upgrade:** Oversaw the upgrade of college infrastructure, including TV and radio stations, as well as laboratories.
- **Distinguished Visits:** Hosted visits from prestigious entities such as the Department of Education (DOE), US Fish and Wildlife, and the Environmental Protection Agency (EPA).
- **Public Speaking Engagements:** Delivered talks and presentations at both local and national events.
- **Faculty Support:** Provided substantial support to faculty, assisting them in securing major funding to enhance the involvement of minorities and underrepresented groups in STEM fields.
- **Effectiveness Assessment:** Developed and oversaw processes to systematically assess the effectiveness of various initiatives.
- **Subject Matter Expertise:** Served as a subject matter expert in academic specialization, contributing to teaching in AU schools' core curriculum and specialized academic programs.
- **Cultural Showcases:** Organized galleries and exhibitions, featuring Benny Andrews' lithographic artwork, as well as showcasing student and alumni work in October 2023.

**2014-2022 Dean, Founding Dean of the College of Natural and Health Sciences | Acting Dean, College of Social Sciences and Humanities, Zayed University (concurrent appointment).**

- Academic programmer revision exercise.
- Development and roll-out of an institutional performance appraisal system for academic staff.
- Alignment of undergraduate and graduate degree programs with the National Qualifications Framework.
- Discipline and program-level accreditations.
- Developing systems and procedures for academic quality assurance and academic as well as administrative staff performance evaluation.
- Implementation of Learning and Teaching initiatives.

- Strategic and academic planning in context with University and Federal strategic priorities.
- Financial and Human resources management.
- Management of 16 laboratories, College-dedicated libraries, and learning resources.
- Development of a college-level strategic plan that is closely coupled to that of the University with a corresponding dashboard to monitor progress.
- Initiated a program to move the college towards being nationally and internationally accredited.
- Identified differentiated revenue lines for the college that reflected its strength in both teaching and research.
- Realigned other non-academic divisions to the new college structure with the appropriate support.

### OPERATIONS AND EDUCATIONAL PROGRAMS

- Developed college-level best practices and policies for hiring and developing policies and procedures to balance faculty teaching load.
- Addressed various issues with faculty and staff compensation.
- Guided the revision of faculty performance evaluations that included the establishment and review of annual goals.
- Encouraged and facilitated faculty and graduate student research through greatly increased incentive grants and start-up support.
- Developed a plan to recognize teaching and scholarship achievements of former and present faculty.
- Worked cooperatively with foundations, businesses, and alumni to generate funding for university renovations, equipment purchases, and endowments for faculty and student research.
- Developing a promotions process and policy in conjunction with the academic staff performance evaluation model.
- Representing the University regionally and internationally.
- Developing an institutional approach to quality assurance and establishing Terms of reference and operational details for an Academic Standards and Quality Unit.
- Successful completion of Commission for Academic Accreditation (CAA) accreditation for three academic programs.
- Resolved a critical issue with a joint educational program that had resulted in a significant institutional exposure.

### DIVERSITY

- Promoted two female faculty members into interim chairs in the college equipping them with one-one mentoring and leadership courses.
- Increased the hiring of female and underrepresented groups throughout the college using a cluster hiring model to create more balanced selection committees. The college has more than 9 nationalities.

- Have a deep and strong commitment to diversity, equity, and inclusion. I worked at six major diverse campuses e.g. Abu Dhabi University (ADU) was ranked 1st in the region for international faculty and student diversity. At ADU I used to organize social, cultural, and sports activities to promote inclusiveness and create a welcoming environment.
- Always encourages respectful debate and openness of thought in and outside of the meeting and classrooms. While serving as Dean at Zayed University I recruited a diverse group of talents and I regularly evaluate progress toward ensuring equity and inclusion for all and not limited to, differences of age, sex, gender identity, race, ethnicity, national and regional origin, sexual orientation, religion and spirituality, abilities and disabilities, and socioeconomic status among students, faculty, administrators, and staff.
- Vigilant at observing and implementing policies and procedures regarding diversity and all matters of the university operations. I strongly believe that in a community where embracing diversity and inclusion is a way of living for students, faculty, administrators, and all members of this community, we all set example to each other, in thought and act.

## RESEARCH

- Addressed issues associated with an incentive program ‘research release time’.
- Created college-specific programs to support faculty development.
- Increased level of research and extramural support from a few thousands in 2016 to several millions in 2018.
- Worked with faculty to raise University research ranking to become among the top universities in UAE.
- Worked with faculty to establish the first strategic plan for research at the University, which has been updated twice and establishes outcome measures for annual review.

## OUTREACH

- Established college advisory board.
- Hosted many individual donor meetings very often ‘
- Met with stakeholder’s multiple times to discuss funding and entrepreneurship.
- Actively involved in the rebranding of the university in the community
- Member of the Board of Trustees, Gulf University, Bahrain

## ACCOMPLISHMENTS

- Collate, centralize & institutionalize all solution enablers developed by individual projects.
- Identify the learnings and opportunities during the course of the project.
- Identify artifacts that can be reused across multiple projects. Developed 6 new master programs.
- Reaccredited 5 programs.
- Chair of the steering committee of the 50 years plan of Zayed University.
- Chair of the research portfolios for re-licensure through the Ministry of Education’s Commission for Academic
- Accreditation (CAA).

- Member, ZU accreditation team Middle States Association of Colleges and Schools.
- Led the development of an aspirational strategic plan that has guided CNHS transformation.
- Hired and established an aligned, performance - based academic leadership team of academic chairs, assistant dean, coordinators, and other faculty administrators.
- Developed and nurtured a strong culture of shared governance with faculty and students.
- Developed and accredited eight six new master programs.
- Established the Academic Success Center for student mentoring.
- Established Math Café tutoring center.
- Developed workload model.
- Increased the rate of student recruitment and retention.
- Built a distinctive College identity and strategic focus.
- Continue to grow graduate programs.
- Renovate spaces to enhance interdisciplinary collaboration, including the opening of new labs (e.g. Hydroponic, Aeroponic, Hyperspectral and remote sensing, Coral propagation).
- Revamp all aspects of enrolment management.
- Developed a new advising model and safety net for students at risk.
- Organized the biggest science fair in the region with 3000 students.
- Agreement with Max-Planck Institute in Germany on a dust storms research cluster (2 Million Euro Campaign).

## PAST PROFESSIONAL ACADEMIC AND RESEARCH EXPERIENCE

**2011-2014 Chair Department** of Mathematics & Sciences, Abu Dhabi University.

Administered the instructional, research, and public service functions of the department. Led three main BSc. programs (Environmental Sciences, Public Health, and Environmental, Health and Safety).

### Role, Projects, and Responsibilities as Department Chair

Responsible for curriculum development and delivery, budgeting, fiscal management, and faculty and staff recruitment. Coordinated the service courses of mathematics, physics, and statistics for the College of Engineering, College of Business, as well as College Art and Science.

- Review the current programs and benchmark against credited programs.
- Develop several research initiatives with the industrial and governmental sectors.
- Improve course scheduling, academic advising, student recruitment, and retention.
- Develop online and distance education courses.
- Co-author grant proposals which led to enhancing the research culture in the university.
- Supervise student environmental clubs at the university.
- Develop a schedule that balances instructor and students' need.
- Teach the Principal of Sustainability, Research Methods, and Energy.
- Present the colleges at the University and Academic Council and oversaw three departments.

### Research

- Economic Feasibility of Biofuel Production from Enhanced Algae-Culture growth along the Abu Dhabi coast (funded).
- Natural Occurring Radioactivity in UAE.

**2011-2014 Managing Director** Department of Mathematics & Sciences, Abu Dhabi University.

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Administered the efficient and effective operation of the Center, ensure the implementation of its mission and objectives, develop projects, write proposals for external funding, and coordinate the center's activities in the in UAE with local, regional, and international partners.

#### **Role, Projects, and Responsibilities**

- Develop and managed occupational health programs.
- Conduct risk assessments of work environments.
- Investigate employee concerns of potential exposures and health effects and determine corrective measures.
- EHS Audit and Assessment of EHS Standard Operating Procedures (SOPs).
- Design EHS management system and environmental health control system.
- Benchmark environmental health management systems.
- Evaluate best practices in monitoring and evaluation of EHS systems
- Occupational Health & Safety – instructor

**2011-2014 Program Coordinator** Environmental Science Program and Professor of Environmental Science and Engineering, University of Texas, Department of Mathematics & Sciences, Abu Dhabi University.

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**Supervised** the university environmental science program, and student recruitment, prepared the program file for SACS accreditation, developed an online minor and increased enrolment in the program, and represented the program in and off-campus activities.

#### **Role, Projects, and Responsibilities**

- Curriculum development, student recruitment, and evaluation of the environmental sciences program. Create synergy among the contributing department to the Environmental Sciences programs.
- Oversee the performance of research support functions of the environmental science program. Sits on Boards of various committees of Earth Science and Resource Engineering.
- Manage the relationships with several initiatives to manage natural resources in a socially, economically, and environmentally acceptable way.

**2007 -2009 Research Associate/Scientist/Research Coordinator**, Center for International Energy and Environmental Policy, The University of Texas at Austin.

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Research project developments and coordination in the MENA region, sustaining healthy working relationships with national and international organizations, as well as coordinating and plan meetings with stakeholders, and reports drafting.



**2007 -2009 Environmental Geoscientist** Bureau of Economic Geology, the University of Texas at Austin

**Area of expertise:** Environmental Remote sensing, GIS and Remote Sensing Mapping, Public acceptance of CCS projects, Evapotranspiration, CO2 sequestration, soil and water management, environmental impact studies, water reuse, environmental database management (National Uranium Resource Evaluation -NURE-of New Mexico and Colorado states)

**2005 2008 Research Fellow** Center for Social Development, Washington University in St. Louis

**Area of expertise:** Environmental Service-learning program, capacity building, civic engagement, social and policy dimensions of environmental issues and their impacts.

**Main technical project(s):** Environmental service-learning programs in the United Arab Emirates: Impacts on environmental awareness and civic engagement

**2005-2007 Associate Professor** United Arab Emirate University, Assistant from 2002-2005

**Area of expertise:** Environmental Sciences, Environmental Impact Assessment, marine sciences, water resources, desert landscape, natural hazards, natural resource development. Administrative: supervisor for UAEU Environment Society, Coordinator for several University Committees; served as General Secretary for the 6th International Conference of the Geosciences of the Middle East, and on the advisory board of the Gulf Seismic Forum and others as well. I taught courses at the College of Science, College of Engineering, and College of Humanities. Taught at the Civil Engineering the following courses: Surface Water Hydrology, Water Resources, and Geomorphology, and taught at the College of Science: Environmental Sciences

**Main technical project(s):** Leading five major projects:

- Environmental evaluation of Abu Dhabi Sabkhas/ salt marches (for the potential presence of economic minerals, for harvesting solar energy, as being a source of unconventional hydrocarbon, for the health of associated mangrove ecosystems, for temporal and spatial variations of the physical landscape, for investigating the impact of land use on this environment, for being as a model extraterrestrial application ...etc). I have formed and coordinated a team from UAEU Departments of Biology, Chemistry, and Geology, and others from UK, USA, and Italy. This project demonstrates my ability to manage large projects involving staff with diverse backgrounds and skills.
- I have directed an Evapotranspiration mapping project that focuses on Al Ain area of Abu Dhabi Emirates. The projects involve ET estimation using traditional methods and remote sensing-based methods. The main tasks included vegetation survey, GIS mapping, metrological data collection, statistical analyses...etc.
- I have directed programs on environmental monitoring of contaminants and associated impacts on ecological receptors. The emphasis was on dams/ coastal water of Abu Dhabi and Dubai, the soil of Al Ain area, the groundwater of Abu Dhabi...etc.
- I have headed a team that investigated sand dunes migrations and pathways in UAE
- I have studied and evaluated water and sediment environmental data of the late Mesopotamian Marshes of Iraq for restoration purposes. In this project, we established

the environmental background of the area necessary for species recovery of small invertebrates, fish, and bird species.

- During these projects various forms of interactions with various ministries and municipalities took place, and the projects themselves included environmental information collection, collation, storage, retrieval, and dissemination to policy planners, decision-makers, scientists and environmentalists, researchers, academicians, and other stakeholders.

## FUNDED RESEARCH PROJECTS

	Fort Valley State University's STEM IV Initiative: Empowering Success Through Intensive Tutoring in Core Mathematics	\$38,634
2023:	Integrating GIS, Remote Sensing, and Field Sample Collection for Atmospheric Pollution and Health Risk Assessment: Case Study for Abu Dhabi" - Zayed University, 2023;	AED 300,000.
	Environmental Sustainability of Qatari Sabkhas Ecosystems for Blue Carbon Storage" - Qatar University, 2023; (Project ID: CCEC01-1017-230064).	USD 600,000
	Development of Greenhouse Gas Emission Factors for the Emirate of Abu Dhabi" - Environment Agency, Abu Dhabi, 2023;	AED 485,000.
2020	Develop an Empirical and Computational Data Catalogue to Enable Un-Mixing of Hyperspectral Data, UAE Space Agency (Phase-2).	AED 1.2M
	Hydrogeological vulnerability and risk mapping of groundwater resources of the aquifer in the Liwa area, United Arab Emirates, using GIS and DRASTIC techniques, ZU.	AED 149,300
	Develop an Empirical and Computational Data Catalogue to Enable Un-Mixing of Hyperspectral Data, UAE Space Agency (Phase-1).	AED 1.2M
2017	Environmental Impacts and Modelling of Dust Storms Pathway in UAE using Field and Remote Sensing Techniques, ZU.	AED 483,800
	Development and Evaluation of Nanocomposite Beads with Embedded Nanoparticles for Water Purification and Disinfection, ZU.	AED 134,000
	Coral Propagation in the Arabian Gulf (CNO-CON-16-021), Emirate Nuclear Energy Commission (ENEC).	AED 3.5M
	Seismic Surveys, Vibration Reduction and Noise Problems in UAE, Co-PI.	AED 200,000
2016	Characteristics and Environmental Impacts of Dust Storms in the Kingdom of Saudi Arabia National Science Technology and Innovation Plan of KSA, Co-PI.	SR 1,888,550

	A novel approach for assessing the impacts of metal oxide nanoparticles on the physiological, biochemical, and ultrastructural characteristics in plant and the systemic movement of plant RNA viruses, (with partners from Jordan University of Science and Technology); submitted and presented Jordan Higher Council of Science and Technology; Co-PI.	AED 620,100
	Effect of Polyaromatic Hydrocarbons (PAHs) on the Health of Employees at Petrol Stations, ZU Research Incentive Fund.	AED 200,000
	Metallogenies of uranium resources in the Middle East, ZU seed fund.	AED 10,000
	Developing Air Quality Monitoring Network at HFZ.	AED 74,000
	EIA Aquaculture industry, Jabel Ali.	AED 10,000
2013 & 2014	Developed and obtain accreditation for two associate degree programs. Funded from UAE Military.	AED 5,000,000/year
2013	P1: EIS Clean Coal Power Project.	AED 150,000
2013	In-kind grant from REEDXPO for 27 student and faculty members from ADU to participate in World Energy Summit.	AED 8000/participant
2012	P1: CO2 Sequestration by Algal Growth and its Applications: Opportunities in Abu Dhabi.	AED 20,000
	CO-PI: Automatic Assessment of Mangrove Health Using Level Set Methods.	AED 20,000
	SEHA Annual Customer Satisfaction Survey 2012; submitted to SEHA, CO-PI.	AED 2,747,969
	Demographic Changes and Growth Impacts on Water Consumption: Gap Analyses and Policy Implications, CO-PI.	AED 100,000
2009 & 2010	Improved Geothermal Energy Prospecting Through Reliable Satellite-Based Thermal Data, Coupled with Filed Surface and Subsurface Verifications: Case Study of West Texas, US.	AED 12,000,000
2009	Training workshop on water policy, Schlumberger Water Service.	USD 18,000
2007	Feasibility study of silica mine development in KSA, National Investment Company.	AED 28,000
	Evaluation of silica sand mine in Tabouk, KSA, National Investment Company.	AED 38,000
	Surface and subsurface investigations of gypsum deposits in Abu Dhabi Emirates, Jamal Al Ghurair Establishment.	AED 48,000
2006	Geochemical and mineralogical survey of Al Dhabea area, UAE, Advance Project Development.	AED 33,000
	Evaluation of solar pond technology and solar salt in UAE, Al Ghaith Holding Company.	AED 300,000

2004	Environmental attitude and related civic programs: a critical study of engagement of Citizens and resident in United Arab Emirates, University of Washington in St. Louis.	\$13,500
	Comparing evapotranspiration estimates from remote sensing and field data in selected areas in Al Ain, Eastern Part of Abu Dhabi, United Arab Emirates University.	AED 20,000
2003	Modern coastal sabkhas of the UAE: spatial and temporal evolution, sediment characterization, life-forms adaptation and potentiality for energy production, United Arab Emirates University.	EDH 198,000
2001	Hydrological modeling of the Rio Grande system with ground truthing and ground based remote sensing techniques (PI's Muttiah and Miyamoto), Texas Higher Education Board (ATP), CO-PI.	USD 230,000
	Evaluating salt accumulation and release processes in riparian zones of a semi-arid river system (with Dr. S. Miyamoto, Texas A&M University), Texas Water Resource Institute.	USD 18,000
1999	Reflectance spectra of salts common in arid soils (350–2,500 nm): application of remote sensing (with Dr. P.C Goodell, The University of Texas at El Paso), Texas Higher Education Board (ATP).	USD 350,000

## PUBLICATIONS/RESEARCH OUTPUT (After 2000)

### Recent Books

- Uranium Geology of the Middle East and North Africa: Resources, Exploration and Development Program (Paperback)/ Paperback 286 Pages / Published: 09/11/2021
- Pollution Assessment for Sustainable Practices in Applied Sciences and Engineering/ Paperback 1170 Pages / Published: 29/10/2020

### Articles

#### Peer Reviewed

- **Howari, F.M.**, Iqbal, J., Shah, N.S., Khan, J.A., Habila, M.A., Boczkaj, G., Shad, A., Nazzal, Y., et al. Bimetallic Bi/CuO-catalyzed persulfate-based advanced oxidation processes towards clofibric acid degradation in wastewater. *Water Resources and Industry* 30, 100226, 2023.
- Al-Hamad, A.A.; Ghrefat, H.; **Howari, F.**; Khawaja, M.A.A.; Zoubi, A. Assessment of roadside pollution by heavy metals: A case study from the District of Bani Kinanah, Irbid, Northern Jordan. *Environmental Monitoring and Assessment* 195 (9), 1-19, 2023.
- Al-Taani, A.A.; Nazzal, Y.; **Howari, F.M.**; Iqbal, J.; Naseem, M.; Sharma, M.; et al. Metal composition and contamination assessment of urban roadway dusts on the Abu Dhabi-Liwa Highway, UAE. *Frontiers in Environmental Science* 11, 1157101, 2023.

- Maloukh, L.; Nazzal, Y.; Kumarappan, A.; **Howari, F.**; Ambika, L.K.; Yahmadi, R.; et al. Metagenomic analysis of the outdoor dust microbiomes: A case study from Abu Dhabi, UAE. *Atmosphere* 14 (2), 327, 2023.
- Ghrefat, H.; Awawdeh, M.; **Howari, F.**; Al-Rawabdeh, A. Mineral exploration using multispectral and hyperspectral remote sensing data. *Geoinformatics for Geosciences*, 197-222, 2023.
- Salem, I.B.; El Gamal, M.; Sharma, M.; **Howari, F.M.**; Nazzal, Y.; Xavier, C.M.; et al. Characterization of biochar produced from Al Ghaf Tree for CO<sub>2</sub> Capture. *Energy Reports* 8, 525-532, 2022.
- **Howari, F.M.**, Iqbal, J., Shah, N.S., Khan, Z.U.H., Murtaza, B., Jamil, F., Shah, A., et al. Visible light driven doped CeO<sub>2</sub> for the treatment of pharmaceuticals in wastewater: A review. *Journal of Water Process Engineering* 49, 103130, 2022.
- **Howari, F.**, Rasool, K., Nazzal, Y., Sarkar, T., Shahzad, A. A Hydrofluoric Acid-Free Green Synthesis of Magnetic M.Ti<sub>2</sub>CTx Nanostructures for the Sequestration of Cesium and Strontium Radionuclide. *Nanomaterials* 12 (18), 3253, 2022.
- Zittis, G.; Almazroui, M.; Alpert, P.; Ciais, P.; Cramer, W.; Dahdal, Y.; Fnais, M.; **Howari, F.**; et al. Climate change and weather extremes in the Eastern Mediterranean and Middle East. *Reviews of Geophysics* 60 (3), e2021RG000762, 2022.
- Nazzal, Y.; **Howari, F.**; Barbulescu, A.; Sharma, M.; Badawi, A.E.; Al-Taani, A.; Iqbal, J.; Ktaibi, F.E.; Xavier, C.M.; Dumitriu, C.S. Study of Atmospheric Pollution and Health Risk Assessment: A Case Study for the Sharjah and Ajman Emirates (UAE). *Atmosphere* 12 (11), 1442, 2021.
- Badawi, A.E.; Alaa, E.; Almansoori, H.M.; Alnuaimi, R.A.; **Howari, F.M.** Factors Influencing Childhood and Adolescent Obesity in the Arab Gulf States: A Systematic Review. *Global Journal of Health Science* 13 (10), 98, 2021.
- **Howari, F.**; Sharma, M.; Xavier, C.M.; Nazzal, Y.; Salem, I.B.; Alaydaros, F. Remote sensing and GIS based approaches to estimate evapotranspiration in the arid and semi-arid regions. *Remote Sensing for Agriculture, Ecosystems, and Hydrology XXIII* 11856, 85-92, 2021.
- **Howari, F.M.**; Sharma, M.; Xavier, C.M.; Nazzal, Y.; Salem, I.B.; Al Aydaros, F. Chronological Analysis and Remote Sensing of Craters on the Surface of Mars. *Frontiers in Environmental Science* 9, 605893, 2021.
- Zhou, S.S.; Ramzan, M.; **Howari, F.**; Kadry, S.; Chu, Y.M.; Malik, M.Y. 3D Bio-convective nanofluid Bödewadt slip flow comprising gyrotactic microorganisms over a stretched stationary disk with modified Fourier law. *Physica Scripta* 96 (7), 075702, 2021.
- Nazzal, Y.; Bărbulescu, A.; **Howari, F.**; Al-Taani, A.A.; Iqbal, J.; Xavier, C.M.; et al. Assessment of metals concentrations in soils of Abu Dhabi Emirate using pollution indices and multivariate statistics. *Toxics* 9 (5), 95, 2021.
- Al-Taani, A.A.; Nazzal, Y.; **Howari, F.M.**; Iqbal, J.; Orm, N.B.; Xavier, C.M.; et al. Contamination assessment of heavy metals in agricultural soil, in the Liwa area (UAE). *Toxics* 9 (3), 53, 2021.

- Ramzan, M.; **Howari, F.**; Chung, J.D.; Kadry, S.; Chu, Y.M. Irreversibility minimization analysis of ferromagnetic Oldroyd-B nanofluid flow under the influence of a magnetic dipole. *Scientific Reports* 11 (1), 4810, 2021.
- Mehmood, T.; Ramzan, M.; **Howari, F.**; Kadry, S.; Chu, Y.M. Application of response surface methodology on the nanofluid flow over a rotating disk with autocatalytic chemical reaction and entropy generation optimization. *Scientific Reports* 11 (1), 4021, 2021.
- Su, B.; Wu, D.; Zhang, M.; Bilal, M.; Li, Y.; Li, B.L.; Atique, L.; Zhang, Z.; **Howari, F.M.** Spatio-Temporal Characteristics of PM2.5, PM10, and AOD over the Central Line Project of China's South-North Water Diversion in Henan Province (China). *Atmosphere* 12 (2), 225, 2021.
- Iqbal, J.; Shah, N.S.; Sayed, M.; Niazi, N.K.; Imran, M.; Khan, Z.U.H.; et al. Nano-zerovalent manganese/biochar composite for the adsorptive and oxidative removal of Congo-red dye from aqueous solutions. *Journal of Hazardous Materials* 403, 123854, 2021.
- Ramzan, M.; Shaheen, N.; Chung, J.D.; Kadry, S.; Chu, Y.M.; **Howari, F.** Impact of Newtonian heating and Fourier and Fick's laws on a magnetohydrodynamic dusty Casson nanofluid flow with variable heat source/sink over a stretching cylinder. *Scientific Reports* 11 (1), 2357, 2021.
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- **Howari, F. M.** Environmental Service Learning Programs in the United Arab Emirates: Impacts on Environmental Awareness and Civic Engagement. <https://doi.org/10.7936/K74M9416> (2006).
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- **Howari, F. M.** Investigation of Hydrocarbon Pollution in the Vicinity of United Arab Emirates Coasts Using Visible and Near Infrared Remote Sensing Data. *J. Coast. Res. - J Coast. RES* 20, 1089–1095 (2004).
- **Howari, F. M.** Chemical and Environmental Implications of Visible and Near-Infrared Spectral Features of Salt Crusts Formed from Different Brines. *Ann. Chim.* 94, 315–323 (2004).
- **Howari, F. M.** Heavy metal speciation and mobility assessment of arid soils in the vicinity of Al Ain landfill, United Arab Emirates. *Int. J. Environ. Pollut.* 22, 721–731 (2004).
- **Howari, F. M.**, Abu-Rukah, Y. & Goodell, P. C. Heavy metal pollution of soils along North Shuna-Aqaba Highway, Jordan. *Int. J. Environ. Pollut.* 22, 597–607 (2004).
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- **Howari, F. M.** Comparison of Spectral Matching Algorithms for Identifying Natural Salt Crusts. *J. Appl. Spectrosc.* 70, 782–787 (2003).
- **Howari, F. M.** Groundwater Through Solid Solution Formation By Carbonate Precipitation. in Seventh International Water Technology Conference Egypt 421–427 (2003).
- **Howari, F. M.** The use of remote sensing data to extract information from agricultural land with emphasis on soil salinity. *Soil Res.* 41, 1243–1253 (2003).
- **Howari, F. M.** Library Retrieval of Remotely Sensed Reflectance Spectra Based on Spectral Matching Algorithms. in AGU Fall Meeting Abstracts vol. 2002 MR61A-1035 (2002).
- **Howari, F. M.** & Banat, K. M. Hydrochemical Characteristics Of Jordan And Yarmouk River Waters : Effect Of Natural And Human Activities Jordan valley , where the most important agricultural activities are located . The headwaters of the Jordan River originate from three main springs : 50–64 (2002).
- **Howari, F. M.** Spectroscopy of evaporites. *Period. di Mineral.* 71, 191–200 (2002).
- **Howari, F. M.**, Goodell, P. C. & Miyamoto, S. Spectral Properties of Salt Crusts Formed on Saline Soils. *J. Environ. Qual.* 31, 1453–1461 (2002).
- **Howari, F. M.** & Banat, K. Hydrochemical characteristics of Jordan and Yarmouk river waters: effect of natural and human activities. *J. Environ. Hydrol.* 9, (2001).
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- Miyamoto, S. & **Howari, F. M.** Evaluating Salt Accumulation and Release Processes in Riparian Zones of a Semi-Arid River System. [http://riogrande.tamu.edu/docs/funding/soil\\_water\\_grants/2001/miyamoto.pdf](http://riogrande.tamu.edu/docs/funding/soil_water_grants/2001/miyamoto.pdf) (2000).



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### EXTERNAL REVIEWER (ER) AND EDITORIAL BOARD (EB)

- Several proposals, and scientific papers published in international journals and conferences in the field of environmental geosciences resources (more information available upon request)
- International Journal of Remote Sensing (ER)
- Journal of Resource, Industrial and Environmental Geology (EB)
- Journal of Marine System (ER)
- Journal of Environmental Quality (ER)
- Pedosphere (ER)
- Journal of Environmental Management (ER)

### SOFTWARE SKILLS

- MS WORD, MS EXEL, Photoshop, PowerPoint, Grapher, Minitab.
- Spec-View + Winfirst + Galactic (Spectral analysis).
- NETPATH, PHREEQ, WATEQ (Hydrogeochemical Modeling).
- ER-Mapper, ERDAS, and ENVI (Image processing software for remote sensing purposes).
- Arc-View (GIS software) and EXTEND (Modeling, and visualization software).
- Other statistics software's (e.g. JMP).

### INDUSTRY RELATED EXPERIENCE, AND CONSULTATIONS

2017	Modeling the Behavior of CO Dispersion from Al Fujairah Rockwool Factory under Several Scenarios including Different Smokestack Heights Options, AED 35,000.
2015	EIA for Aquaculture farms in Jebel Ali, Dubai, 10, 000 AED, SGS
2015	Develop a Strategy and Action Plan for Ambient Air Quality in Hamreea Free Zone, 66,000 AED
2104	Modeling the Behavior of CO Dispersion from Al Fujairah Rockwool Factory under Several Scenarios including Different Smokestack Heights Options; 35,000 AED
2013	Environmental Site Assessments, Soil Investigation and Remediation Processes in Al-Hamreea Free Zone; Confidential client
2011	Consultant for US DOE, Exploration of Uranium Resources
2010	Gravity study for Sinkholes in Dahell Al-Hammam area, Doha, Qatar with QU, and Doha Municipality
2010	Consultant for the IAEA, Uranium Resources in Jordan
2009	Consultant for New Mexico Nuclear Tours, El Paso, Texas

- 2007 Consultant for Advance Project development, Abu Dhabi on evaluating energy production from solar energy stored in saline water bodies through a salinity gradient solar pond.
- 2006 Consultant for National Investment Company in Abu Dhabi, silica mining project. Consultation includes feasibility study, geological mapping, cost estimates, design project schedule, and budget. Mediate technical details (quality, purity, impact on water, and other environmental; impacts) between mine owner and investor.
- 2006 Consultant for Jamal Al-Ghuriar Inc, Dubai, gypsum mining project; consultation included chemical and mineralogical, analyses, and geological mapping, feasibility study and all associated reports.;
- 2005 Consultant for Advance Project Development, Abu Dhabi, for PVD salt project, consultation included geological mapping and description of the groundwater regime in the salt extraction area. Discuss proposals with the technology providers.
- 2005 Consultant for Al-Ghaith Holding Group perform EIS for salt extraction process from Al-Dhabea area in Abu Dhabi, consultation included impact of salt mining on water resources and ecosystem and other elements as well.

### SELECTED TV INTERVIEWS

- 2023 13WMAZ Interview, Macon Georgia - Fort Valley State University signs MOU with UGA School of Pharmacy. FVSU students in their junior year, meeting academic criteria and fulfilling UGA admissions requirements, are guaranteed interviews at the College of Pharmacy. Admitted students proceed to complete the articulated PharmD courses.
- 2023 AlBayan News Interview - Experts discuss "Technology as a Path to a World Without Hunger." Dr. Howari highlights successful technology applications, such as satellite monitoring of crops, drone-assisted insecticide spraying for environmental and health benefits, and analytics improving food supply chain efficiency to reduce waste.
- 2018 Several appearances Al Dhafra TV AND Abu Dhabi TV –on ESA and NASA workshops at ZU and on the International Conference of Molecular Biology.
- 2017 Al Dhafra TV –guest in Emirati programs. Speaking about SDGs and WGS.
- 2015 National Geography –AD Channel, documentary about the Strategic Tunnel in UAE.
- 2013 Environmental and Sustainability Challenges of UAE, Abu Dhabi TV.
- 2011-2013 Dozen of interviews with local newspapers: Al-Khalleeji, Al Itihad, Gulf News, and the National.
- 2009 KMID-TV/ ABC, Odessa, Texas discussing environmental issues e.g., Climate change, and Enhance Oil Recovery.
- 2008 CNBC, Coverage of Water Session of the US-Arab Economic Forum, Washington DC.
- 2008 Kuwait TV, special report on the first conference on Water Policy and Associated Technological Challenges in Arid Dynamic Environments: The Special Case of Arabian Gulf Countries” in Kuwait April 28-29.

- 2006 Sima Dubai TV special report on the 6th International Conference on the Geology of the Middle East, 2006.
- 2006 Documentary series for the Discovery Channel on Environmental Geological Aspects of the Arabian Gulf, 2005.
- 2004 CNBC Channel (TV Network), Water Scarcity in the Arabian Gulf Countries: Status and Possible Solutions, March 25, 2004.
- 2004 National Public Radio, Washington DC, USA. Water Resources in United Arab Emirates, Wednesday, October 29, 2004 (Jennifer Moore).
- 2003 Dubai Business Channel (TV Network): Analyses of World Bank Reports on Water and Environment. September 26.

### SELECTED AWARDS AND RECOGNITIONS

- 2021 Award from Zayed University for outstanding performance significantly surpassing expectations.
- 2020 Appreciation Award from Dubai Police.
- 2019 Distinguished Yarmouk University Alumni 2019- honored at Yarmouk University in Jordan by HE Dr Abdullah Ensour (former Prime Minister of Jordan) as YU distinguished Alumni.
- 2019 Appreciation Award from Ministry of Energy.
- 2018 Appreciation Award from Dubai Police
- 2018 Appreciation Award from Think Science
- 2018 Appreciation Award from Ministry of Energy
- 2017 Appreciation Award from the Federal Nuclear Regulatory Authority
- 2017 Merit Award from Zayed University
- 2014 Appreciation Award from the Ministry of Education
- 2014 Alleem Business Congress Academic Leadership Award
- 2014 Appreciation Award from the Directorate of Education of RAK
- 2012 College of Art and Science Research Award
- 2012 Outstanding Research Presentation, *International Journal of Applied Mathematics and Computer Science conference*
- 2010 Award from Doha Municipality Qatar, for Sinkholes field work in Qatar
- 2008 Bureau of Economic Geology, TX Author Achievement Award, JSG University of Texas at Austin
- 2006 Recipient, UAEU Merits Award
- 2004 Recipient, two awards from Emirates Environmental Group (1st for winning the national environmental competition and 2nd for active support for student activities),
- 2004 Recognition by His Highness Sheikh Nahyan Bin Mubarak Al-Nahyan, Minister of Higher Education and Scientific Research Chancellor of the UAE University for active role in Youth Care and Scholarly activities.

### SELECTED WORKSHOPS DELIVERED

- 2018 Experimental and Computational Method to Enable Un-mixing of Hyperspectral Data of Common Salts International Workshop on Climate Change and Soil Salinity Dynamics: Threats and Challenges, 11-12 April, Arabian Gulf University, Manama, Kingdom of Bahrain.
- 2016 Gave an opening address at Zayed University Forum on Climate Change Negotiation: The Road from Paris Zayed University Convention Center, Abu Dhabi March 16. Event In collaboration with Directorate of Energy & Climate Change, Ministry of Foreign Affairs and United Nations Environment Program (UNEP)- Regional Office for West Asia (ROWA).
- 2016 Invited to give a keynote speech at the International Conference on Natural Science and Applied Mathematics, Dubai, April.
- 2015 Invited to give a keynote speech at the Sixth International Groundwater Conference is to be held at SRM University, Chennai, India during Dec 9-11.
- 2015 Presented a talk on approach for assessing the impacts of metal oxide nanoparticles on the physiological, biochemical, and ultrastructural characteristics in plant; at First JOSTA Conference “Employing Science and Technology and Innovation for Economic Development” Marriott Hotel Amman 12-13 August.
- 2014 Keynote speech at 6th Annual Sustainable Development & Inclusive Growth Congress on 16th December 2014 entitled “Understanding and Implementing Sustainable Development Program, Smart Growth”.
- 2014 Lecture the Nexus between Water and Energy Issues in UAE; the Gulf / UK Research Networking Event that was held in London last March.
- 2014 Lecture, Cooperative Environmental Line of Research; March, ZADCO.
- 2013 Carbon Capture and Storage in GCC Countries; 2nd Annual Global IWPP Summit; RAK, UAE.
- 2013 The Industrial Process and the Environment: Common pollutant of concerns, Risk Assessment and Management. WASTA. Workshop, 3-4 April 2013, Radisson Blue, Abu Dhabi, UAE.
- 2013 Bloom's Taxonomy and Learning Outcome. Spring Institute, CAS Workshop, January 2013.

### SELECTED LECTURING

- 2018 Plenary speech on environmental data management and visualization at the 2nd International Conference on Natural Science and Applied Mathematics, South Africa.
- 2017 World Government Summit- 2017, a two-day discussion took place to explore how Science, Technology, and Innovation (STI) can support the implementation Sustainable.  
The Water-Food-Energy Nexus in Bahrain gave a keynote speech on the topic.
- 2018 Plenary speech on environmental data management and visualization at the 2nd International Conference on Natural Science and Applied Mathematics, South Africa.
- 2010 Open Research Questions in Uranium Exploration; Nuclear Fuel Resource Workshop of DOE, Norwood.

- 2010 Carbon Capture and Storage Technical Multidimensional opportunities and challenges; Masdar Institute of Technology, Abu Dhabi (March).
- 2009 Discovering Uranium in the Middle East and Beyond. International Uranium Fuel Seminar; Hilton Austin, Texas Oct. 18-21, 2009.
- 2009 Are Their Sufficient Uranium Resources in The Middle East To Sustain Nuclear Desalination? Watertech 2009, Abu Dhabi (May 5th).
- 2009 Howari F. M., 2009, Improving desalination efficiency and alternative solutions, Session Chair, and panelist, Watertech 2009, Abu Dhabi (May 5th).
- 2009 Remote sensing applications of water and soil management, Post Conference Masterclass. Watertech 2009, Abu Dhabi, (May 6th).

### SELECTED ADDRESSES

- 2023 Engagement of 402nd Software Engineering Group from Robins Air Force Base/  
Collaboration for STEM Disciplines and Computer Science Internships  
Affiliation Agreement with Arkansas Colleges of Health Education/ Opportunities in  
Osteopathic Medicine, Occupational Therapy, and Physical Therapy  
Address at Warner Robins High School Senior Awards Ceremony/ FVSU Cooperative  
Developmental Energy Program  
Celebrating 40 Years of FVSU Cooperative Development Energy Program (CDEP)  
Description: Address to the U.S. Department of Energy, highlighting Passion, Purpose,  
Perseverance, Partnership, and Productivity for STEM.
- 2013 The challenges and opportunities for plastics waste management, plastics litter, and  
societal behavior. The 2nd Plastics Sustainability Roundtable in Abu Dhabi, 2013.
- 2008 Transboundary Water Resource Challenges: Case Study —Middle East Forum IV, The  
University of Texas at Austin, December 9, 2008, Latin American.  
Taking Geological Storage Forward, Moderator, Carbon Capture and Storage Technical  
Workshop in association with 6th Annual CO<sub>2</sub>-EOR Conference, Houston, Texas,  
December 8, 2008.  
Nuclear policies and Nuclear Education Programs in the Middle East Meeting on  
“Uranium Exploration and Mining Methods”, Amman, Jordan 2008 IAEA Technical  
November 19.  
Remote sensing and Reflectance spectroscopy as useful tools for Uranium exploration  
IAEA Technical Meeting on “Uranium Exploration and Mining Methods”, Amman,  
Jordan November 19, 2008.  
Uranium Geology of the Middle East with focus on new prospective and mining  
potentials IAEA Technical Meeting on “Uranium Exploration and Mining Methods”,  
Amman, Jordan November 17, 2008.  
Nuclear power programs in the Middle East IAEA Technical Meeting on “Uranium  
Exploration and Mining Methods”, Amman, Jordan November 17, 2008.

- 2008 CO<sub>2</sub> Capture and Storage in Saudi Arabia through Enhanced Recovery Multidimensional Opportunities and Challenges. The Future of Clean Energy in the Kingdom of Saudi Arabia Workshop, Dhahran-31261, Saudi Arabia May 18-19th, 2008. Water Challenges and Opportunities in the Middle East Economic Forum, Washington, D.C. May 7-9, 2008, Keynote speech: US –Arab.  
Thought on the nexus between water and energy issues in GCC Countries. The first conference on Water Policy and Associated Technological Challenges in Arid Dynamic Environments: The Special Case of Arabian Gulf Countries, organized by UT-CIEEP at AUK, Kuwait April 28-29, 2008.
- 2007 Service-learning, forms, models, and effects: a comparison across three countries: member of panel at International Service-Learning Research Conference, Portland, Oregon, October 2007.  
Service-learning, forms, models, and effects: a comparison across three countries: member of panel at International Service-Learning Research Conference, Portland, Oregon, October 2007.
- 2007 Environmental geology: tools and approaches: presented at University of Houston, Clear Lake, Texas, April 2007.  
Global environmental concerns and remote sensing applications: presented at University of Colima, Colima, Mexico, February 2007.
- 2006 In situ remediation of heavy metals: presented at St. Louis University, St. Louis, Missouri, October 2006.  
Service-learning, forms, models, and effects: a comparison across three countries: presented as panel member at International Service-Learning Research Conference, Portland, Oregon, October 2006.
- 2005 In situ remediation of heavy metals: presented to Al Ain chapter of the Emirates Natural History Group, Al Ain, United Arab Emirates, May 2005.  
Heavy metal speciation and mobility assessment of arid soils from Al Ain, United Arab Emirates: presented to Al Ain chapter of the Emirates Natural History Group, Al Ain, United Arab Emirates, May 2005.  
In situ remediation of heavy metals: presented to Al Ain chapter of the Emirates Natural History Group, Al Ain, United Arab Emirates, May 2005.
- 2003 Soil quality in Al Ain area: an environmental approach: presented to Environment Society, UAE University, Al Ain, United Arab Emirates, December 8, 2003.  
Job opportunities at UAEU campus (promotion for STAR program): presented to students, Al-Maqam Campus, UAE University, Al Ain, United Arab Emirates, October 2003.  
Remote sensing of salt-affected soils: theory and applications: presented to students, Al- Maqam Campus, College of Science, UAE University, Al Ain, United Arab Emirates, April 9, 2003.  
Extend visualization environment a tool for simulation and critical thinking: case studies on water delivery, and conservation: presented to students, Al-Maqam Campus, College of Science, UAE University, Al Ain, United Arab Emirates, March 2003.

## COMMITTEE RESPONSIBILITIES AND PROFESSIONAL ACTIVITIES

- 2023 Technical Assistant on the Reviewer Panel for the U.S. Nuclear Regulatory Commission's Office of Small Business and Civil Rights, providing expertise and support in evaluating small business and civil rights matters.
- 2020 Jury for the 6th edition of the L'Oréal-UNESCO for Women in Science Middle East Fellowship
- 2016 SPACE 2016; ICAO / UNOOSA Aerospace Symposium. This symposium is a continuation of the first International Civil Aviation Organization (ICAO) and United Nations Office for Outer Space Affairs (UNOOSA) Aerospace Symposium held in ICAO Headquarters, Montréal in March 2015.
- 2015 Africa/Middle East Expert Meeting on the Health Impact of Airborne Dust, organized by World Health Organization, Amman-Jordan, November 2-5th, Country Representative.  
Arab State Green Universities Network (ASGUN) Consultative Meeting, Organized by UNEP, Amman-Jordan, 15-16 September 2015. Country Representative/ Elected as Exudative Secretary for ASGUN.  
The 2nd Annual BOHS Worker Health Protection Conference (WHPC 2015) which was held on 25 - 29 October 2015, Abu Dhabi.
- 2014 UAE Academia and Research Organizations Briefing Meeting at the UAE Space Agency. AquaME, Dubai.
- 2013 World Future Energy Summit (WFES): Powering Sustainable Innovation, January 19-24th.
- 2012 11th Conference, Nutrition and Obesity: The Challenges and Responsibility, Feb 20-21st, Abu Dhabi.  
Networking the Cloud: Enabling Enterprise Computing and Storage/ NYUAD, Abu Dhabi March 17th.  
The Climate Mosaic: understanding the hidden pattern of clouds, wind, and weather/ NYUAD, Abu Dhabi March 20th.
- 2012 Faculty Development and Planning Institute (Spring)/ Blackboard Training, Formal Training.
- 2011 2nd Annual Waste Management Middle East Forum" held at Beach Rotana Hotel, Abu Dhabi on 04th and 05th October 2011.  
Faculty Development and Planning Institute (Fall) Formal Training/ Sept.

## INTERNATIONAL MEETING/ CONFERENCES

- 2023 Establishing Data Science Centers for Training and Engagement: A Collaborative Approach/ Event: Research Collaboration Forum: Data Science & Mathematics Breakout Date: November 2013 Location: Georgia Tech

- 2020 Global Space Conference, UAE. R&D: Partnerships, Benefits and Considerations. Discussing the roles, activities, and achievements of the space agency and local universities in the Emirates Science and Innovation Group, established in 2016 to consolidate the efforts in the space sector through a series of quarterly workshops.
- 2020 Lunar and Planetary Science Conference conducted by NASA, The Woodlands Waterway Marriott Hotel & Convention Center, Texas, USA.
- 2020 Th International Conference on Geological and Environmental Sustainability, June 18-19, 2020, Dubai, UAE An Insight into Solid Earth & Soil materials for futuristic advancements
- 2019 The ASEAN and Indian Higher Education Leaders› Conference on the theme “Achieving Research Excellence” within ASEAN & Indian Universities, at JGU. The platform also aims to develop a mechanism to support and encourage meaningful dialogue and cooperation among the universities across borders for better outcomes in teaching and research.
- 2019 UNEP Education and Youth Initiative held in Nairobi in advance of the UN Environment Assembly. The meeting was attended by UN Environment’s 25 Regional Advisers, UN Environment staff from four regions, UNESCO, three youth participants from Nairobi Universities and with contributions from the World Bank and the Behavioral Insights Team virtually.
- 2019 9th ESIG Conference 2019 presented the 9th Emirates Space and Innovation Group conference at UAE University AlAin. Title ‘Develop an Empirical and computational data catalogue to enable Un-mixing of hyperspectral data: Theory and Application’
- 2018 Forum of Belt and Road for Deans of Environment School which took place in Shanghai, China. The forum is organized by UN Environment-Tongji Institute of Environment for Sustainable Development (IESD). This forum mainly aims to learn and inform about the resources and needs of environmental sectors in different countries along the Belt and Road. " ZU’s capabilities.
- 2018 15th International Arab Mineral Resources Conference. The aim of the three-day conference, titled "Mining, investment and economic development in the Arab world," was to discuss mining prospects and to promote investment opportunities in the field. At this conference. The talk focused on the use of remote sensing techniques to detect copper bearing deposits.
- 2018 “Climate Change and Soil Salinity Dynamics - Threats and Challenges” which took place at the Arabian Gulf University, Manama (Kingdom of Bahrain) and was organized by Arabian Gulf University, and International Center for Bio saline Agriculture, Dubai, United Arab Emirates. The title of the presentations “Experimental and Computational Method to Enable Un-mixing of Hyperspectral Data of Common Salts”.
- 2018 Environmental film festival, Abu Dhabi
- 2018 Quinoa for Future Food and Nutrition Security in Marginal Environments  
Drones Synergies Conference examines future-shaping technology solutions
- 2019 IEEE 2nd International Conference on Power and Energy Applications, ICPEA 2019 )



- 2019 IEEE 2nd International Conference on Power and Energy Applications (ICPEA2019)  
 “Climate Change in the Mediterranean and the Middle East: Challenges and Solutions”, which will take place at the “Filoxenia” Conference Centre. The Event is organized under the Aegis of the President of the Republic of Cyprus, H.E. Mr. Nicos Anastasiades, as well as with the Support of the Representation of the European Commission in Cyprus.
- 2017 Scientific Program Committee, International Conference “Climate Change in the Mediterranean and the Middle East: Challenges and Solutions”. The Event is organized under the Aegis of the President of the Republic of Cyprus, H.E. Mr. Nicos Anastasiades, as well as with the Support of the Representation of the European Commission in Cyprus. 18th and 19th of May.
- 2016 Chair organizing committee for Zayed University Forum on Climate Change Negotiation: The Road from Paris Zayed University Convention Center, Abu Dhabi March 16 Event In collaboration with Directorate of Energy & Climate Change, Ministry of Foreign Affairs and United Nations Environment Program (UNEP)- Regional Office for West Asia (ROWA).  
 Member of the national committee on Fourth National Communication Report United Arab Emirates.  
 Organizing Committee Member for Geology Conference, Dubai.  
 Organizing Committee Member ICNSAM 2016 International Conference on Natural Science and Applied Mathematics\_Scopous, El th9th April.
- 2015 Organizing Committee members and co-chair for several International Conferences (e.g., the first, second and third International Conference on Applied Mathematics; 1st Gulf Marine Environment Conference (GMEC; International Conference on Natural Science and Applied Mathematics and others).
- 2015 Conference Chair, Air Quality & Noise Control UAE conference, 2015.
- 2014 Member: Committee/Task Force / The Ministry of Environment Team to Delineate Ecologically Sensitive Areas.
- 2013 Chair, Technical Meeting on Uranium Resources of the Middle East and North Africa Region.
- 2012 Organizing Committee, International Conference of Applied Mathematics, ADU.  
 Member, WASC Accreditation Committee.  
 Chair, Faculty Development (Department).  
 Chair, Learning Outcome Committee of the CAS.  
 Chair, Peer-Evaluation of Teaching.  
 Member, ADU information sessions (on Campus and off Campus), College representative.
- 2011-2014 Chair and Member, High School Competition for Environmental Awareness, Judging Committee Member.  
 Member, Sheikha Latifa Scholarship (SLS) for the Environmental Science Program.  
 Chair and Member, Class Scheduling Committee Department.  
 Member, Curriculum Committee Department.

- Member, New undergraduate programs Committee.  
 Member, Purchasing & technical inspection committee.  
 Committee Member, College Social Committee.  
 Chair and Member, Research committee.  
 Member, Strategic planning Committee.  
 Environmental Health and Safety Committee, University of Texas PB.
- 2010 Environmental Sustainability Committee (chair of Water and Energy Conservation subcommittee), University of Texas PB.
- 2009 Committee member, Uranium (Nuclear Minerals) Committee of the American Association of Petroleum Geology.
- 2009 Uranium Exploration and Mining Methods, IAEA,  
 2009 Improving Desalination Efficiency and Alternative Solutions, Watertech 2009, Abu Dhabi, 2009.
- 2008 Organizer, the first conference on Water Policy and Associated Technological Challenges in Arid Dynamic Environments: The Special Case of Arabian Gulf Countries “in Kuwait, April 28-29, 2008.
- 2008 Organizer, Featured Plenary Session “Water Challenges and Opportunities in the Middle East” in conjunction with the US-Arab Economic Forum, in Washington, D.C. May 7-9, 2008.
- 2008 Organizing Member, topical Symposium “Using of Remote Sensing and GIS technologies in Geohazards Monitoring, 33rd International Geologic Congress, Oslo, Norway, 2007 – 2008.
- 2008 First Conference on Water Policy and Associated Technological Challenges in Arid Dynamic Environments: The Special Case of Arabian Gulf Countries
- 2006 General Secretary, 6th International Conference on the Geology of the Middle East, Al Ain, UAE.
- 2004 Member, Advisory Board, Seismic Gulf Forum, Al Ain, UAE.