



# Dr. Jawaher.A.Alsultan

POSITION: Assistant Professor

## Personal Data

Nationality | Saudi Arabia

Department | Curriculum and Instruction

Official UoD Email | Jaalsultan@iau.edu.sa

Office Phone No. |

## Language Proficiency

Language	Read	Write	Speak
Arabic	High	High	High
English	High	High	High

## Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
7 <sup>th</sup> August 2021	Ph.D., Curriculum and instruction concentration in Science Education and Instructional Technology	USA	University of South Florida, USF
July 2021	Graduate Professional Development Certificate		
August 2019	Qualitative research Certificate		
August 2019	Game Design for Learning Certificate		



January, 2018	Entrepreneurship, Innovation, and Leadership Development Certificate	UAS	University of Pennsylvania, UPENN
September, 2017	Academic Writing and Research Skills Certificate		
10 <sup>th</sup> September 2012	M.S., Gifted Education	KSA	King Faisal University, KFU
8 <sup>th</sup> September 2007	B.S., Physics Education		
September 2008	Instructional Technology Diploma	KSA	Alanjal International School

#### PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

<b>PhD</b>	Saudi High School Science Teachers' Perceptions towards the Integration of Digital Game-Based Learning into their Teaching Practice
<b>Master</b>	The effects of a training program based on successful intelligence theory on the creative abilities of Al-Ahasa middle school students and their attitudes towards that program

#### Professional Record: (Beginning with the most recent)

<b>Job Rank</b>	<b>Place and Address of Work</b>		<b>Date</b>
Assistant Professor	IAU	Curriculum and Instruction Department: College of Education	January 2023- Until now
Lecture	IAU	Curriculum and Instruction Department: College of Education	June 2022- January 2023
Lecture	IAU	Deanship of Academic Development	2014- June 2022
Graduate Research Assistant	USF	Teaching and learning Department: College of Education	2019-2021
Science high and meddle schoolteacher	Alzorq Public School	Ministry of Education	2012-2014
Gifted education supervisor	Future Vision Private School		2011-2012



Gifted education supervisor	Alanjal International		2010
Science high and meddle schoolteacher	Private School		2007-2009
Researcher Assistant	KFU and Yale University	The National Research Center for Giftedness and Creativity	2011-2012

### Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
President of the Scientific Research and Innovation Unit	College of education	2023- until now
Vice president of the Scientific Mawhiba Summer Academic Enrichment Program 2022	Deanship of Academic Development	Summer 2023
Vice president of the active learning committee	Deanship of Academic Development	2022- until now
Vice president of the Scientific Mawhiba Summer Academic Enrichment Program 2022	Deanship of Academic Development	Summer 2022
Member of Electronic course development committee	Deanship of e-Learning and Distance Learning	Full 2022

### Scientific Achievements

#### Published Refereed Scientific Researches

1. Feldman, A., & Alsultan, J. (2023). Engaging science teachers virtually in dialogical collaborative action research to improve science teaching during the COVID-19 pandemic. *International Journal of Science Education*, 1-24.  
<https://doi.org/10.1080/09500693.2023.2296533>



2. Alsultan, J., Henderson, M., Feldman, A., Rice, M., Yang, X., Kahler, J., Ergas, S. J., & Ghebremichael, K. (2021). Participation of High School Students in Authentic Science and Engineering Experiences with a University-Based Water Research Team. *Water*, 13(13), 1745. <https://www.mdpi.com/2073-4441/13/13/1745>
3. Alsultan, J., Rice, M., Feldman, A., Nkrumah, T., Kenney, I.A., Yang, X., Navarro-O'Hara, M., Ergas, S., Ghebremichael, K. (2021). Authentic Science and Engineering with Biosand Filters for Water Purification. *The Science Teacher*, 88(4), 41-46.

### Published Books

Feldman, A., Alsultan, J., Laux, K., and Nation, M. (2023). *Dialogic Collaborative Action Research in Science Education*. Taylor & Francis.

### Proceedings:

1. Rosengrant, D., Matthews, G., Feldman, A., Chen, Y. H., & Alsultan, J. (2021, August). Preliminary results on a video-based force concept inventory. In *Proceedings of the Physics Education Research Conference (PERC)* (pp. 371-376).
2. Alsultan, J. (2021, March). Pedagogical principles for advancing digital game-based learning in high school Science education; A systematic review of selected empirical research from 2009 to 2019. In *Society for Information Technology & Teacher Education International Conference* (pp. 1419-1429). Association for the Advancement of Computing in Education (AACE).
3. Alsultan, J. (2021, March). Let's play! Job-embedded professional development to support science teachers' transition to virtual technologies to teach the practice of science in Saudi Arabia. In *Society for Information Technology & Teacher Education International Conference* (pp. 1415-1418). Association for the Advancement of Computing in Education (AACE).



## Other Publications

1. Feldman, A. and Alsultan, J. (2022). Self-Study of Dialogic Collaborative Educational Action Research in an Online Environment. *SAGE Research Methods Cases*. DOI: 10.4135/9781529600520
2. Alsultan, J. (2021). *Saudi high school science teachers' perceptions towards the integration of digital Game- based learning into their teaching practice*. [Dissertation, University of South Florida].
3. Muammar,O., Alsharkasy,A., Bediwi,A., Bawaneh,A., Alsultan,J.(2017). *The Beneficiary Satisfaction of the Services Offered by the Orphans Charity Association in the Eastern Region "Bena"*. University of Dammam, KSA.
4. Tan, M. T., Aljughaiman, A. M., Elliott, J. G., Kornilov, S. A., Ferrando Prieto, M., Bolden, D. S. Alsultan,J.A(2013). *The international translation and adaptation of the Aurora assessment battery*. Assessment in Saudi Arabia.
5. Alsultan, J.A(2012). *The effects of a training program based on Successful Intelligence Theory on the creative abilities of Al-Ahsa middle school students and their attitudes towards that program*. Master's thesis. King Faisal University.

## Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

1. Feldman, A., Alsultan, J., Laux, K. and Nation, M. (2023). *Engaging Science Teachers in Dialogic Collaborative Action Research to Address "Wicked" Educational Problems*. Workshop presented at the at the Annual Meeting of the Association for Science Teacher Education (ASTE), January 11-14, Salt Lake City, UT.
2. Feldman, A. and Alsultan, J. (2022). *The COVID-19 Community of Practice: A Self-Study of the Facilitation of Science Teachers' Action Research*. Paper presented at the Annual Meeting of the Association for Science Teacher Education (ASTE), January 5-8, Greenville, SC.
3. Feldman, A., Alsultan, J., Laux, K. and Nation, M. (2022). *Enhanced Normal Practice: Implementing a model of action research building on teacher expertise*. The Qualitative Report Annual Conference (TQR), 19-21January 2022, Virtual.



4. Alsultan, J. and Feldman, A. (2021). *A Self-Study of the Facilitation of Science Teachers' Action Research*. Presentation at the Annual Meeting of the Southeastern Association for Science Teacher Education. October 16, Safety Harbor, FL.
5. Feldman, A. and Alsultan, J. (2021). *The COVID-19 Community of Practice: A Self-Study of the Facilitation of Science Teachers' Action Research*. Paper presented at the Annual Meeting of the Association for Science Teacher Education (ASTE), January 6-8 Virtual.
6. Alsultan, J.(2020). *It's More Than Dirty Water: Can secondary students help solve the world's drinking water crisis?*. Paper presented at the Interdisciplinary Symposium on Qualitative Methodologies (ISQM), Tampa, Fl
7. Alsultan, J.(2020). *Science High school In-service Teachers' Integration of Digital Game-Based Learning: A Systematic Literature Review (2009-2019)*. Paper presented at the Interdisciplinary Symposium on Qualitative Methodologies (ISQM), Tampa, Fl
8. Alsultan, J. Feldman, A. & Van Ingen, S. (2020). *Mathematics and science teaching and learning of Covid-19 public health issues in e-learning environments*. Paper presented at the Annual Meeting of the Florida Education Research Association (FERA), November 10-13, Virtual.
9. Alsultan, J. (2020). *The New Vision of Professional Development in Saudi Arabia; the Opportunities and Challenges of the Professional Development Massive Online Open Course*. Paper presented at the Annual Meeting of the Florida Education Research Association (FERA), November 10-13, Virtual.
10. Alsultan, J. & Arthur, S. (2020). *Collaborative Action Research on Novice Researchers Conducting Qualitative Research on Science Teacher Education During the COVID-19 Pandemic in KSA and the US*. Paper presented at the Annual Meeting of the Florida Education Research Association (FERA), November 10-13, Virtual.
11. Feldman, A., Alsultan, J., Rice, M., Henderson, M., Ergas, S. and Ghebremichael, K. (2020). *The Effects on Students and Their Teacher of Authentic Research in Collaboration With a University Research Team on the Design and Use of Biosand Filters*. Paper presented at the Annual Meeting of the Association for Science Teacher Education (ASTE), January 9-1, San Antonio, TX.
12. Feldman, A., Alsultan, J., Rice, M., Henderson, M., Yang, X., Ergas, S. and Ghebremichael, K. (2019). *Becoming Scientists: The Participation of High School Students and teachers in Authentic Science Experience with Biosand Filters*. Paper presented at the Annual Meeting of the Florida Education Research Association (FERA), November 13-15, St. Petersburg, FL.



13. Alsultan, J.(2019). *A New Vision of Teacher Education Program in Saudi Arabia*. poster presented at the Annual Meeting of the Florida Education Research Association (FERA), November 17-20, Daytona Beach, FL
14. Feldman, A. and Alsultan, J. (2021). *It's More Than Dirty Water: Can secondary students help solve the world's drinking water crisis?*. Paper presented at the Annual Meeting of the Association for Science Teacher Education (ASTE), Fayetteville, AR October 25-26, 2019
15. Alsultan, J.(2019). *High School Teacher' Experiences, and Concerns in Utilizing Educational Video Games in the Classroom and her imagination about the ideal educational video game*. Paper presented at the Interdisciplinary Symposium on Qualitative Methodologies (ISQM), Tampa, Fl

### Video Presentations

1. Alsultan, J., Feldman, A., Ergas, S., and Ghebremichael, K., Kalia, O., Kenney, I., Vicario, E., and Willis, S. (2021). *Food Waste-to-Energy: Goat poop biodigester authentic science*. NSF 2021 STEM For All Video Showcase.  
<https://stemforall2021.videohall.com/presentations/2073>

### Contribution to Teaching and Learning Professional Development

#### Short programs

1. Exploring Values in Saudi Higher education.
2. Interactive Teaching & Student Engagement
3. Resilient Pedagogy: Voice from Saudi Arabia
4. Boosting Student Engagement and Interaction in the Online Classroom
5. Enhancing Learning Through the Use of Technology
6. Using Educational Technology in Higher Education
7. Teaching and Learning Strategies
8. Students learning styles.
9. Learning Theories
10. Assessment & Constructive Feedback
11. Professional Development and Ethics
12. Find your research gap
13. Researcher self awareness
14. Qualitative research and methodology design



## Intensive programs

1. STEM Education, the Path toward Developing 21st-Century Scientists ( 4 days-4 hours per day)
2. Active Learning: Using and Assessing Project (2 days, 8 hours per day)
3. Project-Based Learning (PBL) (2 days, 8 hours per day)
4. Core Competencies in Teaching & Learning in Higher Education (4 days-8 hours per day)
5. Digital Game-Based Learning in science education ( 4 days-8 hours per day)
6. Action research for science and mathematics teachers (2 days, 8 hours per day)

## Membership of Scientific and Professional Societies and Organizations

- AERA, American Educational Research Association
- FERA, Florida Educational Research Association
- ISQM, Interdisciplinary Symposium on Qualitative Methodologies
- ASTE, Association for Science Teacher Education
- AACE -Association for the Advancement of Computing in Education
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## Teaching Activities

### Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Principles of Management	MGT105	lectures
2	Business Communication II	MGMT305	lectures
3	Business Communication I	MGMT 301	lectures
4	Introduction to Business	MGMT 105	lectures
5	Practical Training	CURC-426N	lectures
6	Physics I	PHYS 102/ PHYS 202	lectures

### Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
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1	Teaching Methods for Health and life curriculums for high school	PHEDU 507	lectures
2	Field Experience	PSYCO 530	lectures
3	Earth and Space Science	GEOL 510	lectures
4	Visual Arts Curriculum	ARTED 508	lectures
5	Field Practices in Art Educati	ARTED 509	lectures

### Academic Awards, Fellowships And Grants

Academic Awards				
1	Winner of the best dissertation award from the Action Research SIG of AERA, 2024 .The dissertation was titled " <i>Saudi High School Science Teachers' Perceptions towards the Integration of Digital Game-Based Learning into their Teaching Practice.</i> " A link to the dissertation can also be found here: <a href="https://digitalcommons.usf.edu/etd/9652">https://digitalcommons.usf.edu/etd/9652</a>			
Academic Grants				
#	Name	Institution	Topic	Year
1	USF COVID-19 Rapid Response Research Grant.	USF	Mathematics and science teaching and learning of Covid-19 public health	2020-2022
2	NSF, National Science foundation	USF	Authentic research in the classroom around the production of biogas using biodigesters.	2019-2022
3	NSF, National Science foundation	USF	Participation of High School Students and teachers in Authentic Science Experience with Biosand Filters	2018-2020



## Administrative Responsibilities, Committee and Community Service

### Committee Membership

#	From	To	Position	Organization
1	2021	2022	Member	Quality, Deanship of Academic Development, IAU
2	2021	Continuous	Member	PFUTL program, Deanship of Academic Development, IAU
3	2021	Continuous	Vice president	Active learning, Deanship of academic development, IAU
4	2023	Continuous	President	Scientific Research and publications, College of Education, IAU
5	2022	2023	Member	Academic scholarships and graduate affairs, Department of Curriculum and Instruction, College of Education, IAU
6	2023	2024	President	Scientific Research and publications, Department of Curriculum and Instruction, College of Education, IAU
7	2022	2023	President	Quality, Department of Curriculum and Instruction, College of Education, IAU
8	2023	Continuous	Member	Study plans and programs development committee, Department of Curriculum and Instruction, College of Education, IAU
9	2023	Continuous	Member	Postgraduate Diploma in English as Medium of Instruction (EMI) committee, Department of Curriculum and Instruction, College of Education, IAU



## Volunteer Work

#	From	To	Type of Volunteer	Organization
1	2022	now	<ul style="list-style-type: none"> <li>Leading several projects</li> <li>Developing CCP</li> <li>Developing Presenting several workshops in teaching and learning</li> </ul>	Deanship of Academic Development, IAU
2	2020	2021	Presenter at STEM Academy program	Hillsborough County Public Schools (HCPS) in Tampa, Florida
3	2019	2021	Reviewer	FERA and PERC conferences
4	2018	2019	The leader of the Academic Committee in the SSA club	Saudi Arabian Cultural Mission in the U.S.
5	2019	2020	Teaching / A member of the Arabic language club that focuses on teaching the Arabic language to non-native speakers.	University of South Florida
6	2016	2017	Student Ambassador at helping new students to become acclimated to Philadelphia and UPENN	ELP-UPENN, University of Pennsylvania English Language Programs.

**Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)**



1	Information technology skills, Designing educational games using (G-develop)
2	Information technology skills, Analyzing qualitative research data using (MAXQDA)

Last Update 30/Jan/2024