



Mohammad Zakariya

Curriculum Vitae

*"Teaching for mastery, not for grades" -
Mohammad Zakariya*

Education

- 2013–2017 **PhD of Mathematics**, *Universiti Kebangsaan Malaysia*, Bangi-Malaysia, Ranked 129.
QS 2023
- 2010–2011 **Master of Mathematics**, *Universiti Kebangsaan Malaysia*, Bangi-Malaysia.
- 2006–2010 **Bachelor of Mathematics and Statistics**, *Mu'tah University*, Karak-Jordan.

PhD Thesis

- Title *A Study on Classes of Complex Functions Defined by New Differential Operators*
- Supervisor Professor Maslina Darus
- Description It dealt with new differential operators in the mathematical analysis of complex variables.

Higher Education Quality Assessor

Al-Kaseasbeh is an accredited higher education quality assessor for the Accreditation and Quality Assurance Commission for Higher Education (AQACHEI).

National Qualifications Framework

I have successfully led the process of aligning the qualifications of the Mathematics Department and the College of Science with the National Qualifications Framework (NQF), as mandated by Higher Education regulations in Jordan. This involved thorough documentation collection, meticulous analysis, and alignment of our educational programs with national standards.

By ensuring compliance with the NQF, we have established a solid foundation for our academic offerings, enhancing their quality and ensuring their recognition both nationally and internationally. This accomplishment underscores our commitment to excellence in higher education and adherence to regulatory standards.

General Digital Skills

Awarded ICDL
Advanced \LaTeX , documentclass developer
Intermediate Mathematica, MATLAB

Online Teaching Digital Skills

LMS Learning Management System.
Zoom Virtual platforms.
Manim Math video making through PYTHON.
Blender Animation.
Premiere Video editing.

Entrepreneurial Skills

2023 **Mentality of the entrepreneur.**
Crown Prince Foundation

Math Cafe

Al-Kaseasbeh is the founder of Math Cafe where math anxiety is replaced with “*Mathability*”. Teaching mathematics out of the classroom environment in a smart way endowed with high technology makes mathematics more fun and less anxious. It has a great impact on students’ mathematical knowledge and skills. And at the end of the day, it will be a part of providing the community with a qualified labor force.

Math Edtech Lab

Al-Kaseasbeh is the founder of Math Edtech Lab where students master educational digital skills.

Objectives of the Lab

Providing operational training

- Training students on digital content creation and asynchronous mathematics lessons. Which makes a rise in their employability.

Providing training ended by entrepreneurship

- Training and refining the mathematical, educational, and entrepreneurial skills that provide the student with everything he\she needs to create his\her own job opportunity through Edtech projects.

Online Teaching and Learning in Jordan's Higher Education

Online Teaching and Learning in Jordan's Higher Education was an online training in "Supporting the Digital Transformation in Jordan's Higher Education Sector" (1 Feb.-29 Mar. 2021). It contented the following training sessions

- Introduction to Experiential Online Learning
- Online Engagement and Curriculum Design
- Online Engagement and Assessments
- Experiential Online Learning and Assessments: Revisiting Curriculum Design
- The Importance of Reflection in Experiential Online Learning
- Forward Thinking & Forward Planning

Online Teaching through Smart Book

I am introducing the **SmartBook**—a digital-enhanced textbook to improve education. This tool features interactive content like hyperlinks, videos, and simulations for deeper understanding. Personalized learning paths and progress tracking tailor the experience to each student. Accessible on multiple devices and offline, SmartBooks allow learning anytime, anywhere. Collaborative tools like discussion forums and real-time feedback boost engagement. For example, in a math course on linear equations, students can access video explanations and interactive graphing tools. With the SmartBook, I aim to make education more engaging, accessible, and effective.

Civic Engagement

9-10 July 2023 **Minds Fluency.**
Jordan

- I organized a workshop, Minds Fluency, that was supported by a governmental agency. The workshop aimed to enhance mental activity. Geared towards participants aged 12 to 15, the workshop focused on practical strategies to boost cognitive skills and mental agility. By fostering interactive discussions and hands-on exercises, I provided participants with actionable techniques to improve focus, analytical thinking, and overall mental sharpness. This workshop highlights my dedication to facilitating meaningful learning experiences that promote cognitive development

17 Jan.-3 Feb. 2021 **Gap Filling & Brain Reviving.**
Jordan

- After almost one year of online teaching, and preparing to get back to school, Al-Kaseasbeh voluntarily organized and delivered an in-person workshop to revive skills and knowledge to bridge the gap between online teaching and classroom teaching as a part of his civic engagement. The workshop targeted students from first grade to tenth grade.

Research Interest

I am broadly interested in complex function theory with particular emphasis on how we can infer more information about a complex function from the shape of its image. Parallely, I am interested in Artificial Intelligence; especially when either fuzzy theory or lattices are the tools of the research context.

Publications

- AbuKaraki, A., Alrawashdeh, T., Alshalabi, I. A., Al-Jaafreh, M. M., Alksasbeh, M. Z., Alenezi, A., & Al-Kaseasbeh, M. (2024). New Algorithm for Evaluation of Online Courses Based on Quality Matters Rubric Using Fuzzy Soft Expert Sets. *International Journal of Interactive Mobile Technologies*, 18(4).
- Al-Kaseasbeh, M., AlAmoush, A., & Amourah, A. (2022). Bi-Univalent Non-Bazilevic Functions Associated with Chebyshev Polynomials. Submitted.
- Al-Kaseasbeh, M. (2021). Construction of Differential Operators. *Int. J. Open Problems Complex Analysis*, 13(2), 29–43.
- Amourah, A., AlAmoush, A., & Al-Kaseasbeh, M. (2021). Gegenbauer Polynomials and Bi-univalent Functions. *Palestine Journal of Mathematics*, 10(2), 625–632.
- Al-Kaseasbeh, M., AlAmoush, A., Amourah, A., & Aljarah, A. (2020). Subclasses of Spirallike Functions Involving Convolved Differential Operator. *Int. J. Open Problems Complex Analysis*, 12(3).
- Alksasbeh, M., & Al-Kaseasbeh, M. (2020). Similarity and Agreement Measures and Their Application in Medical Diagnostic Prediction System. *IEEE Access*, 8, 228685–228692.
- Alksasbeh, M., Al-Kaseasbeh, M., Al-Kaseasbeh, S., Alemerien, K., & Alqaraleh, B. (2018). Enhanced Decision Support System Applications Based on Complex Intuitionistic Fuzzy Soft Expert Sets Theory, *Journal of Computer Science*. 14(5):601-612.
- Al-Kaseasbeh, M. & Darus, M. 2017. Concave Meromorphic Functions Involving Constructed Operators. *Acta Universitatis Apulensis*, 2017(52): 11-19.
- Al-Kaseasbeh, M. & Darus, M. 2017. Inclusion and Convolution Properties of A Certain Class of Analytic Functions, *Eurasian Mathematical Journal*. 8(4):11-17.
- Al-Kaseasbeh, M. & Darus, M. 2017. Meromorphic functions involved constructed differential operator, *Janabha - Vijana Parishad of India*. 47(1):63-76.
- Al-Kaseasbeh, M. & Darus, M. 2017. Uniformly geometric functions involving constructed operators, *Journal of Complex Analysis* 2017(ID 5916805):1-7.
- Al-Kaseasbeh, M., Darus, M., & Al-Kaseasbeh, S. 2016. Certain differential sandwich theorem involved constructed differential operator. *International Information Institute*

19(10):4663-4670.

- Al-Kaseasbeh, M. & Darus, M. 2015. On an operator defined by the combination of both generalized operators of Sălăgean and Ruscheweyh. *Far East Journal of Mathematical Sciences* 97(4):443-455.
- Al-Kaseasbeh, M. & Darus, M. 2015. On subclass of harmonic univalent functions defined by generalized Sălăgean operator and Ruscheweyh operator. *Transylvanian Journal of Mathematics and Mechanics* 7(2):95-100.
- Al-Kaseasbeh. Some differential subordinations using the combination of both generalised operators of Sălăgean and Ruscheweyh, Submitted.
- Alksasbeh, M., Alenezi, A., & Al-Kaseasbeh, M. (2022). New Algorithm for Evaluating Online Course Based on Quality Matters Rubric Using Fuzzy Soft Expert Sets. Submitted.
- Alksasbeh, M., Alenezi, A., & Al-Kaseasbeh, M. (2022). New Algorithm for Evaluating Online Course Based on Quality Matters Rubric Using Fuzzy Soft Expert Sets. Submitted.
- Al-Husban, A., Al-Sharoa, D., Al-Kaseasbeh, M., Mahmood, R. (2022) Structures of Fibers of Groups Actions on Graphs. *WSEAS Transactions on Mathematics* this link is disabled, 21, 650–658.



GO Google Scholar



GO Scopus

Conferences

- Al-Kaseasbeh, M. 2023. Distance Learning: Future visions. (Attendance).
- Al-Kaseasbeh, M. 2021. The Tenth Conference on Scientific Research in Jordan (Attendance).
- Al-Kaseasbeh, M. 2019. The Ninth Conference of Scientific Research in Jordan (Attendance).
- Al-Kaseasbeh, M. 2019. On a Class of Harmonic Functions Defined by a Convolution Differential Operator. The 6th International Arab Conference on Mathematics and Computations, Zarqa University, Jordan.
- Alamoush, A. & Al-Kaseasbeh, M. 2019. On the coefficient of The n^{th} Cesaro mean of order α of bi-univalent functions. The 6th International Arab Conference on Mathematics and Computations, Zarqa University, Jordan.
- Al-Kaseasbeh, M., Al-Kaseasbeh, S., Alksasbeh, M., & Abualigah, L. 2019. Inclusion and Convolution Properties for Certain Class Defined by Convoluted Differential Operator. The 3rd International Computer Sciences and Informatics Conference, Al-Ahliyya Amman University, Jordan.
- Al-Kaseasbeh, M. & Darus, M. 2015. On subclass of analytic functions defined by gener-

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alised differential operator. *American Institute of Physics Conference Series* 1678(6):5-12.

- Al-Kaseasbeh, M. & Darus, M. 2016. Complex functions involved composed differential operators, IRCESH2016. Organizing Committee

Teaching Interests and Philosophy

Mathematics is no longer a trivial calculation but rather an in-depth study requiring dedication and ingenuity. This passion and enthusiasm have guided my admiration of the subject and fueled my desire to become a teacher.

My goal in the classroom is to have a lively, open, and educational environment; this will help students to change their beliefs; that mathematics is *not* boring, impossible, or irrelevant. Also, builds student capacity for mathematical thinking and reasoning by empowering conjecturing, reasoning and proving, abstraction, generalization and specialization.

Experience

Vocational, mathematics behaved artificial intelligence and machine learning

2017– till now **Assistant Professor**, JERASH UNIVERSITY, Jordan.

Taught courses that are the core of mathematics behaved artificial intelligence and machine learning

- Mathematical Optimization;
- Calculus I, II, III, and IV.
- General Topology I; with emphasis on Topological Data Science.
- General Topology II;
- Basic Concepts of Statistics.
- Numerical Analysis

In addition to mathematical analysis courses

- Real Analysis I;
- Real Analysis II;
- Complex Analysis;
- Functional Analysis.

2014 **Lecturer**, AL-MADINAH INTERNATIONAL UNIVERSITY, Shah Alam-Malaysia, Part time.

Teaching local and international students the following courses:

- Taught Engineering Mathematics I.
- Taught Engineering Mathematics II.

2011–2013 **Trainer**, EDUCATION EXPERTS COMPANY, Saudi Arabia.
Over all operations including:

- Member of administration committee.
- Taught Calculus, Pre-Calculus, and Pre-Algebra.
- Participated in an annual management meeting.
- Wrote and administrated exams.
- Graded exams and homework.

Mathematics Workshops

2017– 2018 **General Lattice Theory**, JERASH UNIVERSITY, Jordan, Lecture Series.

May 2017 **Algebra and Analysis**, UNIVERSITI PUTRA MALAYSIA, Malaysia, Lecture Series.

Jan. 2015 **Workshop on Geometric Function Theory**, UNIVERSITI KEBANGSAAN MALAYSIA, Malaysia, By Prof. Derek Thomas.
UK

Dec. 2013 **Geometric Function Theory**, UNIVERSITI KEBANGSAAN MALAYSIA, Malaysia, By Prof. Danial Breaz.
Romania

Teaching Workshops

Nov. 2024 **Learning and Teaching Capacity-Building Workshop Focusing on Developing Learning Objectives**, British Council.
Jordan

May 2023 **Teacher Tech Summit**, T4.
Middle East

Mar. 2023 **When the classroom door closed**, Karyma Mazruai.
QRTA

Fab.-Mar. 2021 **Online Teaching and Learning in Jordan's Higher Education**, Six workshops, British Council.
Jordan

- Introduction to Experiential Online Learning
- Online Engagement and Curriculum Design
- Online Engagement and Assessments
- Experiential Online Learning and Assessments: Revisiting Curriculum Design
- The Importance of Reflection in Experiential Online Learning
- Forward Thinking and Forward Planning

2019– 2020 **Training Programme for STEM Early Career Academics in Jordanian Universities**, Three workshops, British Council.

Jordan

- (20-21 November 2019) Navigating Research Excellence
- (16-17 November 2019) Civic Engagement
- (20-21 January 2020) Leadership and Management

- 2017– 2018 **Advanced Business English Course**, *Maximal Knowledge*.
Jordan
- Oct. 2017 **Emotional Intelligence at Work** , *Edraak*, Online Training.
- Sep. 2017 **Active Training by Mathematics**, *Edraak*, Online Training.
- May 2013 **Rules of Active Training**, *Education Experts Company*, Al-Jouf University.
Saudi Arabia
- May 2013 **Creative Training**, *Education Experts Company*, Al-Jouf University.
Saudi Arabia
- May 2013 **Planing for Training Session**, *Education Experts Company*, Al-Jouf University.
Saudi Arabia
- Mar. 2013 **Program on Mathematics Education**, *Education Experts Company*, Al-Jouf University, by Prof. Mark Soul, New York University.
USA

Leadership

- Nov. 2024 **The 8th Arab Forum: The Role of Leadership in Achieving Institutional Excellence, Sustainability, and Economic Development in the Digital Era**, Hosted by the Amman Chamber of Commerce in Collaboration with the Arab Trainers Associationl.
Jordan
- 2022–2024 **The Head of Science Faculty**, Jerash University.
Jordan
I have been the Head of the Science Department for the past two years. In this role, I oversee all operations and mentor courses in mathematics, chemistry, and biology. My responsibilities include ensuring that educational goals are met and compiling weekly reports on our progress. Additionally, I support my team in developing their digital skills and provide ongoing support to enhance their teaching effectiveness.
- 2023–2024 **President of a Toastmasters International Club**.
an international non profit organization
- May 2023 **Teacher Tech Summit**, *T4*.
Middle East
- 2019– 2020 **Training Programme for STEM Early Career Academics in Jordanian Universities**, *Three workshops*, British Council.
Jordan
 - (20-21 November 2019) Navigating Research Excellence
 - (16-17 November 2019) Civic Engagement
 - (20-21 January 2020) Leadership and Management
- 2011–2013 **Trainer**, EDUCATION EXPERTS COMPANY, Saudi Arabia.
Over all operations

Public Speaking

- 2023–2024 President of a Toastmasters International Club
- 2022–2023 Vice President of Education, Toastmasters International
- 2016– till now Toastmasters International member
 - 2017 Speech competition in Malaysian Language: an international level
 - 2015 Oral Presentation at Universiti Kebangsaan Malaysia inspiring new graduate students

Social Work

- 2015-2017 **Graduate Ambassador (GA).**
Universiti Kebangsaan Malaysia (UKM)
 - GAs represent UKM Graduate Center, in particular, and UKM in general. GAs provide prospective students with invaluable peer-to-peer advice and liaise with faculties and institutes. They also assist and support selected university events/activities and communicate with relevant communities outside the university about UKM. They are responsible individuals who act with integrity and the highest professional standards. They possess effective communication, critical thinking, leadership, teamwork, and negotiation skills.
- 2015-2016 **Post Graduate Information Day, Universiti Kebangsaan Malaysia.**
Bangi-Malaysia
- 2015 **Ecosystem-Discovery Workshop.**
Ulu Yam-Malaysia
 - Exploring jungle: trees, rivers, and soil theoretically and practically. The main goal is to appreciate and save these sources.
- 2015 **Second Asia-pacific Alliance of Postgraduate Student Association,**
Universiti Sains Malaysia.
Penang-Malaysia
 - It was a leadership conference that focused on critical thinking, team building, and solving complex problems.
- 2014 **We Are The Host, Malaysian Ministry of Tourism.**
Bangi-Malaysia
 - We Are The Host is a workshop to host people in a professional way.
- 2010 **International Exhibition in the International Students Festival,** Universiti Kebangsaan Malaysia.
Bangi-Malaysia

- Committee Member

Languages

Arabic	Mother Tongue	-
English	Advance	-
Malay	Intermediate	<i>Conversationally fluent</i>

References

Supervisor	Prof Dr. Maslina Darus	<i>maslina@ukm.edu.my</i>
Dean	Prof Dr. Mohammad Break	<i>m.break@jpu.edu.jo</i>
Dean	Prof Dr. Ayman M. Al-Sawalha	<i>a.swalha@jpu.edu.jo</i>
Director	Prof Dr. Bashir Jarrar	<i>bashirjarrar@yahoo.com</i>

Interests

- Cooking
- Swimming
- Running
- Chess
- Bicycling