ISRA ALSHBEIL, Ph. D.

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MATHEMATICS PROFESSOR

Insightful, dynamic, and detail-oriented graduate with extensive Masters-level education and professional experience in the field of Complex Analysis
I am specializing in geometric function theory and the theory of elliptic zeta functions. My passion is to teach and guide students to help them discover the inherent beauty of mathematics through tailored discovery and compelling real-life problems. Collaborates effectively in team environments to maintain productivity and success in the advanced novel works related to the investigation and application of geometric function theory.

PROFESSIONAL EXPERIENCE

University of Jordan, Amman, Jordan

Assistant Professor, Mathematics | University of Jordan   Sept. 2020 – Now

Improved student learning outcomes by supplementing professor instruction with additional clarification or ancillary topics of discussion. Acted as a key resource for students by remaining available and approachable for discussions of course content and academic expectations.

Key Responsibilities:

- **Provided in-depth and targeted explanations of key course information to improve student comprehension among undergraduates by identifying and resolving gaps in student understanding.**
- **Provided moral support to students during stressful academic periods to improve learning outcomes and examination capabilities.**
- **Invigilated and graded exams, applying comprehensive knowledge of statistical concepts and topics to aid professors in accurate and timely grading.**

University of Ottawa, Ottawa, Canada

Teaching Assistant, Statistics | University of Ottawa Sept. 2015 – May. 2020

Key Responsibilities:

- Continuously researched background literature and journals to guide experiment design and research direction. Maintained detailed references and gathered additional literature to inform new approaches to research.
- Operated as lab coordinator, maintaining and calibrating equipment while organizing meetings and discussions to streamline research progress and overall administration.
- Produced a publication highlighting the use of point-biserial correlation to improve examinations and explain interest.
- Co-authored a publication outlining improvement methods for

TEACHING EXPERIENCE

2021- till now	Assistant Professor	Calculus 1
		Calculus 2
		Calculus 3
		Complex Analysis
		Foundation of Mathematics
		Real Analysis I
		Graduation Project
		Mathematics for Business and the Social Sciences
2020	Teaching Assistant	Mathematical methods
2019	Teaching Assistant	Calculus I
2018	Teaching Assistant	Ordinary Differential Equations & Numerical Methods
2017	Teaching Assistant	Calculus for the Life Sciences
		Introduction to Linear Algebra
		Calculus for the Life Sciences 2
		Calculus 2
2016	Teaching Assistant	Introduction to Linear Algebra
		Introduction to Calculus and Vectors
2015	Teaching Assistant	Calculus for the Life Sciences 2
		Mathematics Help Center

Ministry of Education, Jordan

2009-2014	Teacher	High School Mathematics

University of Al-albayt, Mafraq, Jordan

2007-2009	Teaching Assistant	Calculus 1
		Calculus 2
		Mathematical Methods I

EDUCATION

2015-2020   University of Ottawa, Canada   Doctoral degree in Mathematics
Main project in Complex Analysis and its applications in number theory (Elliptic zeta functions, Equivariant functions, and Modular forms.

2007-2009   University of Al Al-bayt, Jordan   Master's degree in Mathematics with **Honours Thesis**
Title of the thesis: Series Solution for Solving Delay Differential Equation by Homotopy Analysis Method.

2004-2007   University of Al Al-bayt, Jordan   Bachelor's degree in Mathematics with **Honours Thesis**

SCHOLARSHIPS

2015-2020   University of Ottawa, Canada
-Scholarship from the University of Jordan which covered tuition for my Ph. D. at the University of Ottawa
- Grant from the Ottawa University guaranteed Teaching Assistant and Research Assistant paid positions.

2007-2009   Ministry of Higher Education and Scientific Research, Jordan

Academic Excellence Grant which covered tuition for my master's studies at the University of Al Al-bayt.

2004-2007   Deanship of scientific research, Al Al-bayt university
Academic Excellence Grant which covered tuition for my bachelor's studies at the University of Al Al-bayt.

PUBLICATIONS

1) "Elliptic Zeta Functions and Equivariant Functions"
Isra Al-shbeil, Abdellah Sebbar
Canadian Mathematical Bulletin 61 (2), 376 - 389 5, 2018.

2) "Elliptic Zeta Functions"
I Al-shbeil
Université d'Ottawa/University of Ottawa, 2020.

3) "Second Hankel Determinant for the Subclass of Bi-Univalent Functions Using q-Chebyshev Polynomial and Hohlov Operator"
Isra Al-Shbeil, Timilehin Gideon Shaba, Adriana Catas
Fractals and fractional 6 (186), 1 – 19, 2022.

4) "Properties of q-Symmetric Starlike Functions of Janowski Type"
A Saliu, **I Al-Shbeil**, J Gong, SN Malik, N Aloraini
Symmetry 14 (9), 1907, 2022.

5) "Radius and Differential Subordination Results for Starlikeness Associated with Limaçon Class"
AC afis saliu, Kanwal Jabeen, **Isra Al-shbeil,** Semiu Oladipupo Oladejo
journal of functions spaces, 2022.

6) "Some Geometrical Results Associated with Secant Hyperbolic Functions"

Isra Al-shbeil, afis saliu, Adriana Catas, Sarfraz Nawaz Malik
mathematics 10 (15), 14, 2022.

7) "Coefficient Bounds for a Certain Family of Biunivalent Functions Defined by Gegenbauer Polynomials"
I Al-Shbeil, AK Wanas, A Benali, A Cătaş
Journal of Mathematics, 2022.

8) "On q-Limaçon Functions"
A Saliu, K Jabeen, **I Al-Shbeil**, N Aloraini, SN Malik
Symmetry 14 (11), 2422, 2022.

9) "Hankel and Symmetric Toeplitz Determinants for a New Subclass of q-Starlike Functions"
I Al-shbeil, J Gong, S Khan, N Khan, A Khan, MF Khan, A Goswami
Fractal and Fractional 6 (11), 658, 2022.

10) "A Neutrosophic Cubic Hesitant Fuzzy Decision Support System, Application in the Diagnosis and Grading of Prostate Cancer"
JD Madasi, **I Al-Shbeil**, A Cătaş, N Aloraini, M Gulistan, M Azhar
Fractal and Fractional 6 (11), 648, 2022.

11) "Applications of Symmetric Quantum Calculus to the Class of Harmonic Functions"
MF Khan, **I Al-Shbeil**, N Aloraini, N Khan, S Khan
Symmetry 14 (10), 1-18, 2022.

12) "Coefficient Inequalities for Multivalent Janowski Type q-Starlike Functions Involving Certain Conic Domains"
MS Ur Rehman, QZ Ahmad, **I Al-shbeil**, S Ahmad, A Khan, B Khan, ...
Axioms 11 (10), 494, 2022.

13) "Applications of a q-Differential Operator to a Class of Harmonic Mappings Defined by q-Mittag–Leffler Functions"
MF Khan, **I Al-shbeil**, S Khan, N Khan, WU Haq, J Gong
Symmetry 14 (9), 1905, 2022.

14) "Applications of Beta Negative Binomial Distribution and Laguerre Polynomials on Ozaki Bi-Close-to-Convex Functions"
 Isra Al-shbeil, Abbas Kareem Wanas, afis saliu, A Cătaş
axioms - MDPI 11 (9), 7 , 2022.

15) "Majorization Results Based upon the Bernardi Integral Operator"
I Al-Shbeil, HM Srivastava, M Arif, M Haq, N Khan, B Khan
Symmetry 14 (7), 1404, 2022.

16) "On Certain Generalizations of Rational and Irrational Equivariant Functions"
I Al-Shbeil, A Saliu, AK Wanas, A Cătaş
Mathematics 10 (13), 2247, 2022.

17) "SOME PROPERTIES OF (n, m)-POWER-HYPONORMAL IN SEMI HILBERTIAN SPACE
I Al-shbeil, CHERIFA CHELLALI, ABDELKADER BENALI"
Journal Of Science and Arts 22 (1), 115-120, 2022.

18) "Existence of solutions for multi-point nonlinear differential system equations of fractional orders with integral boundary conditions"

I Al-Shbeil, A Benali, H Bouzid, N Aloraini
AIMS Mathematics 7 (10), 18142-18157, 2022.

*For the updated list of publications, see the ResearchGate page.

Conferences attended

June 12-16, 2023 Queens, Canada. (Speaker) Conference on Art IX.
July 6-8, 2022 Toronto, Canada. (Speaker) Conference on Spec(Q).
June 27-30, 2022 Toronto, Canada. (Invited Speaker) online Conference on Homotopy Theory with Applications to Arithmetic and Geometry.
June 14-16, 2019 Ottawa, Canada. (Organizer) 12th OMC/CMO 2019.
July 9-14, 2018 Québec, Canada. (Speaker) 15th meeting of the Canadian Number Theory Association.
Mar. 13-17, 2017 Toronto, Canada. Workshop on Efficient Congruencing and Translation-invariant Systems.

WORKSHOPS

University of Jordan, Amman, Jordan   24/11/2022
Workshop on the Strategies for Motivating Students & Gaining their Attention

University of Jordan, Amman, Jordan   3/11/2022
Workshop on the Use of e-Learning Methods in Teaching

University of Jordan, Amman, Jordan   2-3/3/2021
 Faculty development workshop on Teaching & Developing a Confident Work Environment

University of Jordan, Amman, Jordan   16-17/11/2022
 Intellectual Property Rights & Patents

University of Jordan, Amman, Jordan   21/10/2021
 Open Educational Resources

University of Ottawa, Canada   09/2015
Teaching Academy Events: Let's Talk Online Teaching

University of Jordan, Amman, Jordan   25-27 /10 /2021
Enhancing student work-ready skills

2019	University of Ottawa, Canada	Operads and higher structures in Algebraic Topology and CategoryTheory workshop and summer school
2017	University of Ottawa, Canada	Teaching Assistant Orientation Workshop
2011	Ministry of Education, Jordan	INTEL – Software developer for Technical Computing and Artificial Intelligence

2010	Ministry of Education, Jordan	ICDL – International Computer Drivers License

SKILLS AND COMPETENCIES

Experience with online homework management systems:
Webassign and Mylab.
Experience with learning management systems:
E-Learning, Blackboard, and Canvas.

Software:

        Scientific Workplace, LaTeX, and Mathematica.

Research Profiles at Academic Networks and Universal Identifiers

On Google Scholar: Available at:
https://scholar.google.com/citations?user=ohDQ-PwAAAAJ&hl=en

On Research Gate: Available at:
https://www.researchgate.net/profile/Isra-Al-Shbeil

On Scopus: Available at:
https://www.scopus.com/authid/detail.uri?authorId=57201645637

On ORCID: Available at:
https://orcid.org/my-orcid?orcid=0000-0001-5287-4656

On Web of Science: Available at:
https://www.webofscience.com/wos/author/record/AGF-2702-2022