

Dr. Abdullah Alsoboh

Curriculum Vitae

“As an academic with a PhD in Mathematics and over a decade of experience as a faculty member at Philadelphia University (Jordan) and previously at Umm Al-Qura University (KSA), I possess extensive knowledge and expertise in the field. My professional achievements include numerous publications in prestigious journals and conference proceedings, as well as successful mentoring of undergraduate students, particularly in the foundation program. Moreover, my exceptional interpersonal and communication skills have facilitated effective collaboration with colleagues and students, while also fostering a positive and inclusive learning environment. With a keen enthusiasm for both research and teaching, I am eager to contribute my skills and experience to new opportunities in the field of mathematics.”

PERSONAL DATA

RANK: **Assistant Professors in Mathematics**

DATE OF BIRTH: **December 25, 1983**

RELIGION: **Islam**

MARITAL STATUS: **Married**

EDUCATION

2022 **Doctor of Philosophy in Mathematics**
SUPERVISOR: DR. PROF. MASLINA DARUS
Department of Mathematical Sciences,
Universiti Kebangsaan Malaysia (UKM) (QS Ranking: 129).

Title of Thesis
Properties of Certain Generalised Subclasses of Analytic Functions Generated by Operators Associated with Quantum Calculus

Area of Study: Complex analysis (Geometric Function Theory)


2010 **Master's degree in Mathematics**
VERY GOOD RATING
Department of Mathematics and Statistics
Jordan University of Science and Technology, Irbid, Jordan.


Title of Thesis
Iterative Methods for Solving System of Non-linear Equations


Supervisor: Dr. Hani Siyyam (Passed away)


2006 **Bachelor's degree in Mathematics**
VERY GOOD RATING
Department of Mathematics
Yarmouk University, Irbid, Jordan.

Contact Informations

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GUIDANCE WEBSITES

WEBSITE	Google Scholar
CITATIONS	190
H-INDEX	9
I10-INDEX	7
WEBSITE	Researchgate
CITATIONS	168
H-INDEX	8
WEBSITE	Scopus
CITATIONS	109
H-INDEX	7
DOCUMENTS	11

 <https://orcid.org/0000-0002-5183-2654>

WORK EXPERIENCE

1. Since June. 2023: **Assistant Professor**, at Department of Mathematics, Philadelphia University, Amman, Jordan.
2. Part-time position for the second semester of the academic year 2023/2024 at the Department of Mathematics and Statistics, Jordan University for Science and Technology, Irbid, Jordan.
3. From March 2022– May 2023: **Assistant Professor**, at Department of Mathematics, Al-Leith University College, Umm Al-Qura University, Saudi Arabia.
4. From: Feb 2011 – Jan 2022: **Lecturer** at Deanship of First Common Year (The Foundation Program) at Umm Al-Qura University, Saudi Arabia.

IT EXPERIENCE

1. Since 2008, I have been active in integrating technology in the teaching and learning of Mathematics. I have good knowledge in: **Geogebra, Mathematica, Latex.**
2. Teaching online, undergraduate courses using Blackboard Ultra, Webex and Microsoft Teams in the time of covid 19.

PERSONAL SKILLS & ATTRIBUTES

- 1 Capable of handling responsibilities.
- 2 Very good at handling a variety of tasks efficiently.
- 3 Strong personality and have the ability to guide a team.
- 4 Very good Communication skills.
- 5 Dedicated and details oriented.
- 6 Highly organized and professional.
- 7 Meet all time schedules and targeted plans.
- 8 Able to quickly grasp and comprehend new concepts.

AWARDS

2022 **Graduate on Time:** *School of Postgraduate, Universiti Kebangsaan Malaysia, Malaysia.*

COURSES TAUGHT

Pre-Calculus, Calculus I, Calculus II, Discrete Math, Group theory, Ring Theory, Field Theory, Differential Equations, Complex analysis, Real analysis I, Real analysis II, Linear Programming, Mathematics for Pharmacy students, Principles of Statistics and Probability.

LANGUAGES

ARABIC Mother tongue.
ENGLISH Very good (Speaking, Reading and Writing.)

CONFERENCES AND PRESENTATIONS

1. The 14th International Symposium on Geometric Function Theory and Applications (GFTA 2018) Selangor, Malaysia.
2. The 20th Postgraduate Colloquium FST 2020, The National University of Malaysia, Selangor, Malaysia.
3. The 6th International Arab Conference on Mathematics and Computations (IACMC 2019), Alzarqa-Jordan.
4. The 7th International Arab Conference on Mathematics and Computations (IACMC 2022), Alzarqa-Jordan.

COMMITTEES

I am an active member of numerous committees at Philadelphia University and Umm Al-Qura University, contributing to various aspects of academic and administrative endeavors. These include participation in the Curriculum Development Committee, Courses Equivalent Committee, Exam's Committee, and the Mathematics Strategic Plan Committee. Additionally, I have been involved in organizing and coordinating activities for the Science Festival Committees, demonstrating a commitment to fostering educational excellence and innovation within the university community.

DELIVERED WORKSHOPS

1. Workshop on the use of Latex for graduate students, Umm Al-Qura University, May 2020.
2. Workshop on the use of Beamer for graduate students, Umm Al-Qura University, May 2020.

RESEARCH INTERESTS

My general research interests are in the areas of Complex mathematics especially in Geometric Function Theory. More specifically, my current research interests include these topics:

1. Generating new subclass of analytic and harmonic functions using new differential operator associated with quantum calculus.
2. Investigating new classes of meromorphic functions using the principal of subordination and hadamard products. Furthermore, Studying several properties of the introduced classes, for example, the coefficient condition, closure, Hadamard products condition, convex combinations, and Nighbourhoods problem, Integral preserving, Convex Hull Set.
3. Developing new subclass of analytic bi-univalent functions by making use of the q -analogue of several distribution series. These functions involve the q -Gegenbauer polynomials, and we use them to establish our new subclass.
4. We explore a novel subclasses of analytic bi-univalent functions by utilizing Fibonacci numbers. These tools enable us to define and establish our newly discovered subclass.

MANAGING EDITOR

I am a reviewer for the International Journal of Open Problems in Complex Analysis (IJOPCA).

 <http://www.i-csrs.org/ijopca/index.htm>

REVIEWING JOURNALS

I am a reviewer for the following journals.

1. MDPI Publisher House: Axioms, Mathematics and Symmetry.
2. Journal of Mathematical Analysis and Applications.
3. Journal of Function Space.
4. The Iraqi Journal of Science.
5. International Journal of Mathematics and Computer Science.
6. Mathematical inequalities and applications.



REVIEWING CONFERENCES

- 1 IACMC 2019, IACMC 2022, IACMC 2023.
- 2 ICIT 2022, 2023.



PUBLICATIONS DURING 2023

1. **Alsoboh, A.**, Amourah, A.; Darus, M.; Rudder, C.A. (2023). Studying the harmonic functions associated with quantum calculus. *Mathematics*, 11, 2220. (**Web of Science, Scopus Q1**)
 <https://doi.org/10.3390/math1102220>
2. **Alsoboh, A.**; Darus, M., A q-Starlike Class of Harmonic Meromorphic Functions Defined by q-Derivative Operator. In: *Mathematics and Computation: IACMC 2022, Zarqa, Jordan, May 11–13. Singapore: Springer Nature Singapore*, 2023. p. 257-269. (**Scopus**)
 Google scholar
3. **Alsoboh, A.**; Amourah, A.; Darus, M.; Rudder, C.A. Investigating New Subclasses of Bi-Univalent Functions Associated with q-Pascal Distribution Series Using the Subordination Principle. *Symmetry* 2023, 15, 1109.
 (**Web of Science, Scopus Q1**).
 <https://doi.org/10.3390/sym15051109>
4. **Alsoboh, A.**; Amourah, A.; Sakar, F.M.; Ogilat, O.; Gharib, G.M.; Zomot, N. Coefficient Estimation Utilizing the Faber Polynomial for a Subfamily of Bi-Univalent Functions. *Axioms* 2023, 12, 512. (**Web of Science, Scopus Q1**)
 <https://doi.org/10.3390/axioms12060512>
5. Amourah, A., **Alsoboh, A.**, Ogailat, O., Gharib, M.G., Saadeh, R., Soudi, M. (2023). A generalization of Gegenbauer polynomials and bi-univalent functions. *Axioms*, 12(2), 868. 128.
 (**Web of Science, Scopus Q1**).
 <https://doi.org/10.3390/axioms12020128>
6. **Alsoboh, A.**, Amourah, A., Darus, M., Sharefeen, R.I.A. (2023). Applications of Neutrosophic q -Poisson distribution Series for Subclass of Analytic Functions and Bi-Univalent Functions. *Mathematics*, 11, 868.
 (**Web of Science, Scopus Q1**).
 <https://doi.org/10.3390/math11040868>
7. Al-Hawary, T., Amourah, A., **Alsoboh, A.**, Alsalhi, O. (2023). A New Comprehensive Subclass of Analytic Bi-Univalent Functions Related to Gegenbauer Polynomials. *Symmetry*, 15, 576. (**Web of Science, Scopus Q1**).
 <https://doi.org/10.3390/sym15030576>
8. **A., Alsoboh**; Mousalam, H.; Alzu'bi, K.; Amourah, A. (2023). Utilizing Normalized Dini Functions in the Analysis of Analytic Functions. *Int. J. Open Problems Complex Analysis*, 15(2), 35-45.
9. **A., Alsoboh**; Alghazo, S.; Abuabeileh, D.; Amourah, A. (2023). Coefficient Bounds for New Subclass of Bi-univalent Functions Associated with Faber polynomials. *Int. J. Open Problems Complex Analysis*, 15(2), 21-35.
10. Alshloul, B.; abu Alasal, A.; Mannaâa A.; **A., Alsoboh**; Amourah, A. (2023). Consolidate a certain class of (p, q) -Lucas polynomial based bi-univalent functions with a specific discrete probability distribution. *Int. J. Open Problems Complex Analysis*, 15(1), 26-37.
11. **A., Alsoboh**; Darus, M.; Amourah, A.; Atshan, W.G. (2023). A Certain Subclass of Harmonic Meromorphic Functions with Respect to k -Symmetric Points. *Int. J. Open Problems Complex Analysis*, 15(1), 01-16.



PUBLICATIONS DURING 2022 AND BEFORE

1. A., Amourah, M., Alomari, F., Yousef and **A., Alsoboh** (2022). Consolidate of a certain discrete probability distribution with a subclass of bi-univalent functions involving Gegenbauer polynomials. *Mathematical Problems in Engineering*, 14(4). (**Scopus Q1**)
<https://doi.org/10.1155/2022/6354994>
2. **A., Alsoboh** and M., Darus (2019). New subclass of analytic functions defined by q -differential operator with respect to k -symmetric points. *International Journal of Mathematics and Computer Science*, 14(4), 761-773. (**Scopus Q1, Web of Science**)
<http://ijmcs.future-in-tech.net>.
3. **A., Alsoboh** and M., Darus (2020). On Fekete–Szegő Problems for Certain Subclasses of Analytic Functions Defined by Differential Operator Involving-Ruscheweyh Operator. *Journal of Function Space*, Vol. 2020, Article ID 8459405, 6 pages. (**Scopus Q1, Web of Science**). <https://doi.org/10.1155/2020/8459405>.
4. **A., Alsoboh** and M., Darus (2019). On Fekete–Szegő problem associated with q -derivative operator. *Journal of Physics: Conference Series*, 1212, 1, IOP Publishing. (**Scopus**).
[doi:10.1088/1742-6596/1212/1/012003](https://doi.org/10.1088/1742-6596/1212/1/012003)
5. **A., Alsoboh** and M., Darus (2019). On Subclasses of Harmonic Univalent Functions Defined by Jackson's (p, q) -Derivative. *Journal of Mathematical Analysis*, 10(3): 123-130. (**Scopus Q1, Thomson Reuters**).
[Google scholar](#)
6. **A., Alsoboh** and M., Darus (2019). On q -Starlike Functions with Respect to k -Symmetric Points. *AUA Journal*, 60: 61–73.
[Google scholar](#)
7. **A., Alsoboh** and M., Darus (2019). Certain Subclass of Meromorphic Functions Involving q -Ruscheweyh Differential Operator. *TJMM*, 11(1–2): 01–08.
[Google scholar](#)



ACCEPTED ARTICLES

1. **Alsoboh, A.**; Oros, G. (2024). A Class of Bi-univalent Functions in a Leaf-Like Domain Defined through Subordination via q -calculus. *Mathematics*. (**Scopus, Q1**)
2. **Alsoboh, A.**, Amourah, A., Jamal Salah (2024). Bi-Univalent Functions Using Bell Distribution Associated With Meixner-Pollaczek Polynomials. *International Journal of Mathematics and Computer Science*, 19(2024), no. 4, 1077–1091. (**Scopus, Q1**)
3. **Alsoboh, A.**; Murat Çağlar, Mucahit Buyankara (2024). Fekete-Szegő inequality for a subclass of bi-univalent functions linked to q -Ultraspherical polynomials. *Contemporary Mathematics*, 2024 (**Scopus, Q4**)
4. **Alsoboh, A.**, Amourah, A., Jamal Salah (2024). Bounds on Initial Coefficients for Bi-Univalent Functions Linked to q -Analog of Le Roy-Type Mittag-Leffler Function. *WSEAS Transactions on Mathematics*, 19(2024), no. 4, 1077–1091. (**Scopus, Q2**)
5. Tariq Al-hawary, **Alsoboh, A.**; Osama Ogilat , Irianto Harny , Maslina Darus (2024). Applications of q -Ultraspherical polynomials to Bi-Univalent Functions defined by q -Saigo's fractional integral operators. *Aims of Mathematics*, 2024 (**Scopus, Q1**)
6. Amourah, A., **Alsoboh, A.**; Daniel Breaz , Sheza M. El-Deeb (2024). A Bi-starlike Class in a Leaf-Like Domain Defined through Subordination via q -calculus. *Mathematics*, 2024 (**Scopus, Q1**)



SUBMIT ARTICLES

1. **Alsoboh, A.**; Atshan, W.G. (2024). On the Fractional q -Differintegral Operator for subclasses of bi-univalent functions Subordinate to q -Ultraspherical. *Fractal and Fractional*. (**Scopus, Q1**)
2. Al-Hawari, **Alsoboh, A.**; Amourah, A., Ogailat, O.; Oqaily, O.; Harnyard, I., Darus, M. (2024). Applications of q -Borel Distribution Series Involving q -Gegenbauer Polynomials to Subclasses of Bi-Univalent Functions. *Helvion*. (**Scopus, Q1**)
3. Amourah, A., **Alsoboh, A.**; Alharbi, A. , El-Deeb, S. M. (2024). A Bi-Convex Class in a Leaf-Like Domain Defined through Subordination via q -calculus. *Symmetry*, 2024 (**Scopus, Q1**)



REFERENCES

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RANK

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