Amer Abu Omar

Summary

An experienced Associate Professor of Mathematics with over 10 years of experience in higher education. Proven track record in teaching a wide range of mathematics courses. Dedicated to making mathematics understandable and engaging for all. Committed to innovative teaching methods, impactful research. Possesses excellent communication with a genuine enthusiasm for sharing the beauty of mathematics with others.

Gender: **Male**

Date of Birth: **July 5, 1983**

Phone: **+966546958771**

Email: **aabuomar@hotmail.com**

Address: **Tabuk, Saudi Arabia**

Experience

October 2020 – Current
Associate Professor in Mathematics
Fahad Bin Sultan University | Tabuk, Saudi Arabia

October 2015 – September 2020
Assistant Professor in Mathematics
Fahad Bin Sultan University | Tabuk, Saudi Arabia

June 2013 – September 2014
Assistant Professor in Mathematics
Philadelphia University | Amman, Jordan

November 2012 – May 2013
Lecturer in Mathematics
Philadelphia University | Amman, Jordan

Main Activities:
- Delivering lectures to undergraduate or graduate students.
- Designing and developing course materials, syllabi, and lesson plans.
- Preparing and grading assignments, quizzes, exams, and projects to assess students' understanding and progress.
- Holding regular office hours to provide additional support to students outside of class time.
- Conducting research, publishing papers, and attending conferences.
- Providing academic advising to students.
- Collaborating with colleagues on course development and assessment, participating in faculty meetings, workshops, and professional development activities.
- Participating in departmental or university committees.

Skills

Teaching

Curriculum Development

Research

Communication

Problem-Solving

Technology Proficiency

Education

2013
PhD in Mathematics
The University of Jordan | Amman, Jordan
- **GPA:** 3.92/4
- **Rating:** Excellent
- **Dissertation title:** Numerical Radius Inequalities for Commutators of Hilbert Space Operators.

2008
MSc in Mathematics
The University of Jordan | Amman, Jordan
- **GPA:** 3.73/4
- **Rating:** Excellent

2005
BSc in Mathematics
The University of Jordan | Amman, Jordan
- **GPA:** 3.71/4
- **Rating:** Excellent

Teaching Record

The following are some of the courses which I have taught:
- College Algebra
- Pre-Calculus
- Calculus I, Calculus II, and Calculus III
- Linear Algebra
- Differential Equations
- Real Analysis I and Real Analysis II
- Complex Analysis
- General Topology
- Probability and Statistics
- Discrete Mathematics

Publications

1. Amer Abu-Omar and F. Kittaneh, A numerical radius inequality involving the generalized Aluthge transform, Studia Math. 216 (2013), 69-75.

2. Amer Abu-Omar and F. Kittaneh, Numerical radius inequalities for products of Hilbert space operators, Journal of Operator Theory, 72 (2014), 101-107.

3. Amer Abu-Omar and F. Kittaneh, Numerical radius inequalities for nxn operator matrices, Linear Algebra and its Applications, 468 (2015), 18-26.

4. Amer Abu-Omar and F. Kittaneh, Estimates for the numerical radius of the Frobenius companion matrix and bounds for the zeros

5. Amer Abu-Omar and F. Kittaneh, Upper and lower bounds for the numerical radius with an application to involution operators, Rocky Mountain J. Math. 45 (2015), 1055-1065.

6. Amer Abu-Omar and F. Kittaneh, Numerical radius inequalities for products and commutators of operators, Houston Journal of Mathematics, 41 (2015), 1163-1173.

7. Amer Abu-Omar and F. Kittaneh, Notes on some spectral radius and numerical radius inequalities, Studia Math., 227 (2015), 97-109.

8. Amer Abu-Omar and F. Kittaneh, Generalized spectral radius and norm inequalities, International J. Math., 26 (2015), 1-9.

9. Amer Abu-Omar, Notes on some bounds for the zeros of polynomials, Mathematical Inequalities & Applications, 21 (2018), 481-487.

10. Amer Abu-Omar and P. Y. Wu, Scalar approximants of quadratic operators with applications, Operators and Matrices, 12 (2018), 253-262.

11. Amer Abu-Omar, Spectral radius inequalities for sums of operators with an application to the problem of bounding the zeros of polynomials, Linear Algebra and its Applications, 550 (2018), 28-36.

12. Amer Abu-Omar and F. Kittaneh, A generalization of the numerical radius, Linear Algebra and its Applications, 569 (2019), 323-334.

13. Amer Abu-Omar, Numerical radius inequalities for products of Hilbert space operators II, Numerical Functional Analysis and Optimization, 41 (2020), 127-133.

Honors and Prizes

2010-2012
Ministry of Higher Education and Scientific Research scholarship for academic excellence | Amman, Jordan