Saja Ahmad Saleem Hayajneh

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Date & place of birth: 21-05-1983, UAE

Nationality: Jordanian Sex: Female

Qualifications

- Ph.D Degree in Mathematics, University of Jordan, July 2012, (GPA= 3.75 out of 4) **Excellent Degree**

  ◊Field of specialization: **Functional Analysis, Matrix Theory and Operator Theory**

  ◊Title of Ph.D Thesis: Inequalities for Operator Monotone Functions

  ◊Thesis advisor: Professor Fuad Kittaneh

- M.Sc Degree in Mathematics, Yarmouk University, August 2008, (GPA= 88.9) **Excellent Degree**

  ◊Title of M.Sc. Thesis: Some Questions in the Theory of Means

  ◊Thesis advisor: Professor Mowaffaq Hajja

- B.Sc Degree in Mathematics, Yarmouk University, June 2005 (GPA= 84.6) **Excellent Degree**
- General High School Certificate, Ajman Secondary Girls School, UAE June 2001, **(GPA= 98.1)**

Employments

- The University of Jordan, **Associate professor** (2019-present), Assistant professor (2013-2019), UJ Department of Mathematics, Amman, Jordan

- **Irbid National University**, Irbid, Jordan

◊**Assistant Professor**, Department of Mathematics [Fall 2012 and Spring 2013]

- **Jordan University of Science and Technology**, Irbid, Jordan

  ◊ **Part-time Instructor**, Department of Mathematics [Fall 2012-2013].

- Yarmouk University, Irbid, Jordan

  ◊ Teaching assistant, Department of Mathematics in the period 2005-2006.

- Al Fateha Academy, Irbid, Jordan

- I have been a high school teacher for three years. This experience has enhanced my understanding of several mathematical concepts and my ability to communicate.

- I was working as a teacher of Mathematics in Al Fateha Academy (a tutoring institute) while I was completing my study towards the B.Sc Degree.

Teaching Record:

1. Real Analysis I
2. Real Analysis II
3. Linear Algebra I
4. Abstract Algebra I
5. Set Theory
6. Principles of Mathematics
7. Calculus I, II and III
8. Complex Analysis I

Academic Honors and Awards:

- A **scholarship from the Ministry of Higher Education** to get a Ph.D degree in mathematics from the the university of Jordan (2009-2012).
- **Dean's List of Excellence**, Yarmouk University, Jordan (2001- 2005)
- My rank in B. Sc. was the **third one** in the whole year of my graduation.

Publications:

- **Published** papers:

1. **Saja Hayajneh** and Fuad Kittaneh, Trace Inequalities and a Question of Bourin, **Bulletin of the Australian Mathematical Society**, doi:10.1017/S0004972712001104, 2013, 1-6.
2. **Saja Hayajneh** and Fuad Kittaneh, Lieb-Thirring Trace Inequalities and a Question of Bourin, **Journal of Mathematical Physics**, Volume 54, 033504 (2013); doi: 10.1063/1.4793993

3. R. Khalil**, S. Hayajneh**, M.Hayajneh and M.Sababheh, Remotality of Exposed Points**,** ***J. Concrete and Applicable Math***., Volume 12 (2014), no.1-2, 94 -- 101.
4. M. Hayajneh, **S.Hayajneh** and F. Kittaneh, Remarks on some norm inequalities for positive semidefinite matrices and questions of Bourin, **Math. Inequal. Appl**, Volume 20 (2017), 225-232.
5. M. Hayajneh, **S. Hayajneh** and F. Kittaneh, On the Ando-Hiai-Okubo trace inequality, **J. Operator Theory**, Volume 77(2017), 77-86.
6. M. Hayajneh, **S. Hayajneh** and F. Kittaneh, Norm inequalities for positive semidefinite matrices and a question of Bourin, **International Journal of Mathematics**, Volume 28(2017), No. 14, 1750102.
7. M. Hayajneh, **S. Hayajneh** and F. Kittaneh, Norm inequalities related to the arithmetic–geometric mean inequalities for positive semidefinite matrices, **Positivity,** Volume 22(2018), 1311–1324.
8. M. Hayajneh, **S. Hayajneh** and F. Kittaneh, On some classical trace inequalities and a new Hilbert-Schmidt norm inequality, **Mathematical Inequalities and Application,** Volume 21(2018), 1175-1183.
9. M. Hayajneh, S. Hayajneh, and F. Kittaneh, Norm inequalities for positive semidefinite matrices and a question of Bourin II, **International Journal of Mathematics**, Volume 32, 2150043 (2021), 7 pp.

- Papers under printing:
  M.A. Hayajneh , **S.A. Hayajneh**, Solving A Natural Iteration of A Triangle Using the Technique of Shape Function.

Searching Experience:

I carefully read three earlier drafts of four papers written by Professor Mowaffaq Hajja and made several corrections and suggestions. These three papers are entitled:

1- Nested sequences of generalized medial triangles.

2- The fencing problem - A blend of calculus, geometry, trigonometry, and number theory.

3- The generalized Napoleon and Torricelli transformations and their iterations.

4- Internal cubic symmetric forms in a small number of variables.

Conferences:

1. The Third Conference of Mathematical Sciences (CMS'2011), Zarqa University, Jordan
2. The International Conference of Fractional Differentiation and its Applications 2018.

Computer skills:

I'm skilled in using Maple, Microsoft Office (Word, Power Point, Excel), and Latex.

Languages:

Arabic: mother tongue.

English: good in Reading, Listening, Writing & Speaking.

Mathematical interest:

I'm interested in mathematical research and in teaching. I have always enjoyed reading mathematics, practicing mathematical thinking, and solving problems.

References:

- Professor **Fuad Kittaneh**(Email: fkitt@ju.edu.jo), the University of Jordan, Jordan
- Professor **Rushdi Khalil** (Email: roshdi@ju.edu.jo), the University of Jordan, Jordan
- Professor **Mowaffaq Hajja** (Email:mowhajja@yahoo.com, mhajja@yu.edu.jo) , Yarmouk University, Jordan

Saja. A. Hayajneh