

# CURRICULUM VITA

## • PERSONAL DETAILS

### Hamzeh Taha Salman Alkasasbeh

Date of Birth: 25-1-1982

Place of Birth: Al-Karak

Marital status: Married

Nationality: Jordanian

Scopus ID: 56205135500

Google Scholar Citations:

<https://scholar.google.com.my/citations?user=sETY9Z8AAAAJ&hl=en>

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#### Permanent address

Amman, Jordan

#### Current address

Amman-Jordan



## • ACADEMIC QUALIFICATIONS

**Ph.D. Mathematics**, February 2013 to April 2016, University Malaysia Pahang

PhD Thesis Titled: *Numerical Solutions for Convective Boundary Layer Flow over a Solid Sphere of Newtonian and Non-Newtonian Fluids.*

**M. Sc. Mathematics**, February 2005 to August 2007, Mu'tah University, Al- Karak, Jordan. (Excellent)

Master Thesis Titled: *On the Cycles of Graphs*

**B.Sc. Mathematics**, September 2001 to February 2005, Mu'tah University, Al-Karak, Jordan (Good)

**High secondary school**, Scientific Stream, July 2001, Ayy secondary School, Jordan. 77.1%

## • PROFESSIONAL EXPERIENCE

1. **Dean of the Faculty of Information Technology and Science**, October 2019- Present, Ajloun National University, Ajloun, Jordan

2. **Head of Mathematics Department**, October 2018- Present, Ajloun National University, Ajloun, Jordan

3. **Assistant Professor** , September 2016 – Present, Ajloun National University, Ajloun, Jordan

- Teaching the following courses:

- Calculus I & II,
- Abstract Algebra I & II,
- Ordinary Differential Equations I & II
- Numerical Analysis I & II
- Complex Analysis,
- Real Analysis I & II
- Mathematics History

-Member of several committees in the Mathematics Department.

4. **Teaching Assistant**, February 2013 – February 2015, University Malaysia Pahang, Malaysia

-Tutorial for the following courses:

- Ordinary Differential Equations
- Numerical Analysis

-Member of Applied & Industrial Mathematics Research Group, Faculty of Industrial Science & Technology, Universiti Malaysia Pahang 26300 Kuantan, Pahang.

5. **Lecturer**, January 2011- January 2013, Northern Borders University, Saudi Arabia

***Duties and Responsibilities:***

-Teaching the following courses:

- Calculus I & II,
- Statistics,
- Linear Algebra,
- Abstract Algebra I & II,
- Applied Mathematics for Computer Science ,
- Discrete Mathematics,
- Number Theory,
- Complex Analysis,
- Real Analysis

- Vector Analysis.

-Member of several committees in the Mathematics Department.

**6. Part time Lecturer** , October 2010- January 2011, Al-Balqa Applied University, Aqaba , Jordan

***Duties and Responsibilities:***

-Teaching the following courses:

- Calculus I,
- Statistics I,
- Discrete Mathematics.

-Member of several committees in the Computer Science Department.

**7. Lecturer**, February 2009 – July 2010, King Saud University , Saudi Arabia

***Duties and Responsibilities:***

-Teaching the following courses

- Calculus I & II

-Member of several committees in Department of Mathematics Skills the Preparatory Year.

**8. Teacher**, February 2005- February 2009 , Ministry of Education, Alkarak, Jordan

## • International Published and Accepted Papers

### A Journal

1. Alwawi F. A., **Alkawasbeh, H. T.**, Rashad A M., Idris. R (2019) MHD Natural Convection of Sodium alginate Casson Nanofluid over a Solid Sphere **Accepted** *Results in Physics* (ISI and Scopus Indexed).
2. Swalmeh, M. Z., **Alkawasbeh, H. T.**, Hussanan, A., Mamat, M. (2019). Numerical Study of Mixed Convection Heat Transfer in Methanol based Micropolar Nanofluid about a Horizontal Circular Cylinder *Journal of Physics Conference Series 1366:012003 DOI: 10.1088/1742-6596/1366/1/012003* ( Scopus Indexed ).
3. Alwawi F. A., **Alkawasbeh, H. T.**, Rashad A M., Idris. R (2019) Natural convection flow of Sodium Alginate based Casson nanofluid about a solid sphere in the presence of a magnetic field with constant surface heat flux *Journal of Physics Conference Series 1366:012005 DOI: 10.1088/1742-6596/1366/1/012005* ( Scopus Indexed ).
4. Swalmeh, M. Z., **Alkawasbeh, H. T.**, Hussanan, A., Mamat, M. (2019). Microstructure and Inertial Effects on Natural Convection Flow of Water and Kerosene Oil Based Nanofluids about a Solid Sphere *International Journal of Ambient Energy.1-31 DOI:10.1080/01430750.2019.1665582*( Scopus Indexed ).

5. Swalmeh, M. Z., **Alkawasbeh, H. T.**, Hussanan, A., Mamat, M. (2019) Influence of Microstructure and Inertial on Micropolar Nanofluid Free Convection Flow over a Heated Horizontal Circular Cylinder **Accepted in** *Theoretical and Applied Mechanics* (Scopus Indexed).
6. Swalmeh, M. Z., **Alkawasbeh, H. T.**, Hussanan, A., Mamat, M. (2019) Numerical Investigation of Heat Transfer Enhancement with Ag-GO Water and Kerosene Oil Based Micropolar Nanofluid over a Solid Sphere *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences* **59**(2):269-282 (Scopus Indexed)
7. **Alkawasbeh, H. T.**, Swalmeh, M. Z., Hussanan, A., Mamat, M. (2019) Numerical Solution of Heat Transfer Flow in Micropolar Nanofluids with Oxide Nanoparticles in Water and Kerosene Oil about a Horizontal Circular Cylinder *IAENG International Journal of Applied Mathematics* **49**(3) 326-333 (Scopus Indexed)
8. Hani A Qadan, **Alkawasbeh, H. T.**, Nusayba Y Mohammad Z Alsawalmeh, Shaima I Alkhalafat (2019) A Theoretical Study of Steady MHD mixed convection heat transfer flow for a horizontal circular cylinder embedded in a micropolar Casson fluid with thermal radiation *Journal of Computational Applied Mechanics* **50**(1)165-173 10.22059/jcamech.2019.278376.372 (ISI Indexed)
9. Husein A. Alzgoool, **Alkawasbeh, H. T.** Sana Abu-ghurra, Mohammed Z. Swalmeh (2019) Numerical Solution of Heat Transfer in MHD Mixed Convection Flow Micropolar Casson Fluid about Solid Sphere with Radiation Effect *International Journal of Engineering Research and Technology* **12**(4) 519-529(Scopus Indexed).
10. **Alkawasbeh, H. T.**, Sana Abu-ghurra, Husein A. Alzgoool, (2019) Similarity solution of Heat Transfer for the Upper-Convected Maxwell Casson Fluid over a Stretching/Shrinking Sheet with Thermal Radiation, *JP Journal of Heat and Mass Transfer* **17**(1) 1-17(Scopus Indexed).
11. **Alkawasbeh, H. T.**, Swalmeh, M. Z., Hussanan, A., Mamat, M. (2019) Effects of mixed convection on methanol and kerosene oil based micropolar nanofluid containing oxide nanoparticles CFD Letters **11** (1) 70-83. ( Scopus Indexed)
12. **Alkawasbeh, H. T.**, (2018) Numerical Solution of MHD Free Convective Flow of Micropolar Casson Fluid about a Solid Sphere, *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences.***50**(1) 55-66 ( Scopus Indexed)
13. Swalmeh, M. Z., **Alkawasbeh, H. T.**, Hussanan, A., Mamat, M. (2018). Heat transfer flow of Cu-water and Al<sub>2</sub>O<sub>3</sub>-water micropolar nanofluids about a solid sphere in the presence of natural convection using keller-box method. *Results in Physics* **9**(2018) 717-728 (ISI and Scopus Indexed).
14. Hussanan, A., Salleh. M. Z., **Alkawasbeh, H. T.**, Khan, I. (2018). MHD flow and heat transfer in a Casson fluid over a nonlinearly stretching sheet with Newtonian Heating. *Heat Transfer Research Journal* **49**(12):1185–1198 (2018) (ISI and Scopus Indexed)
15. **Alkawasbeh, H. T.**, (2018). Numerical Solution on Heat Transfer Magnetohydrodynamic Flow of Micropolar Casson Fluid over a Horizontal Circular Cylinder with Thermal Radiation, *Frontiers in Heat and Mass Transfer* **10**(32) 1-7 ( Scopus Indexed)
16. **Alkawasbeh, H. T.**, Salleh. M. Z., Tahar R. M., Nazar, and Pop, I. (2015). Effect of radiation and magnetohydrodynamic free convection boundary layer flow on a solid sphere with convective boundary conditions. *Walailak Journal of Science and*

*Technology*. **12**(9): 849-861 ( Scopus Indexed)

17. **Alkawasbeh, H. T.,** Sarif, N. M., Salleh. M. Z., Tahar R. M., Nazar, and Pop, I. (2015). Effect of radiation and magnetohydrodynamic free convection boundary layer flow on a solid sphere with Newtonian Heating in a micropolar fluid. *AIP Conference Proceedings* (1643): 662-669. (ISI Indexed)
18. **Alkawasbeh, H. T.,** Salleh. M. Z., Tahar R. M., Nazar, and Pop, I. (2015). Effect of radiation and magnetohydrodynamic free convection boundary layer flow on a solid sphere with convective boundary conditions in a micropolar fluid. *Malaysian Journal of Mathematical Sciences* **9**(3): 463-480 ( Scopus Indexed)
19. **Alkawasbeh, H. T.,** Salleh. M. Z., Tahar R. M., Nazar, and Pop, I. (2015). Numerical solutions of Mixed convection boundary layer flow about a solid sphere in a micropolar fluid with convective boundary conditions. *World Applied Sciences Journal* **33**(9): 1472-1481. (Scopus Indexed)
20. **Alkawasbeh, H. T.,** Salleh. M. Z., Tahar R. M. and Nazar, R. (2014). Numerical solutions of free convection boundary layer flow on a solid sphere with convective boundary condition, *Journal of Physics: IOP Publishing*. **495**(1): 012025 (ISI, Scopus Indexed)
21. **Alkawasbeh, H. T.,** Salleh. M. Z., Tahar R. M., Nazar, and Pop, I. (2014). Mixed convection boundary layer flow about a solid sphere with convective boundary conditions. *Wulfenia Journal*, **21**(3): 386-404. (ISI, Scopus Indexed)
22. **Alkawasbeh, H. T.,** Salleh. M. Z., Tahar R. M., Nazar, and Pop, I. 2014. Free convection boundary layer flow on a solid sphere with convective boundary conditions in a micropolar fluid. *World Applied Sciences Journal*. **32**(9): 1942-1951.( Scopus Indexed)
23. **Alkawasbeh, H. T.,** Salleh. M. Z., Nazar, and Pop, I. (2014). Numerical solutions of effect of radiation and magnetohydrodynamic free convection boundary layer flow a solid sphere with Newtonian heating. *Applied Mathematical Sciences Journal*. **8**(140): 6989-7000.( Scopus Indexed)
24. **Alkawasbeh, H. T.,** Salleh. M. Z., Tahar R. M. and Nazar, R. (2014). Effect of radiation on magnetohydrodynamic free convection boundary layer flow near the lower stagnation point of a solid sphere with Newtonian heating. *Journal of Engineering and Technology*. **5**(1): 77-88.( Scopus Indexed)
25. **Alkawasbeh, H. T.,** Salleh. M. Z., Tahar R. M., Nazar, R. and Pop, I. (2013). Free convection boundary layer flow near the stagnation point of a solid sphere with convective boundary conditions in a micropolar fluid. *AIP Conference Proceedings*, (1602): 76-82..(ISI Indexed).

### **Submitted to Journal**

### **B Conferences**

1. The Malaysian Technical Universities Conference on Engineering and Technology (MUCET, 2013) was hold between 3 -4 December 2013 in Kuantan, Pahang.
2. The 3rd International Conference on Mathematical Sciences (ICMS3, 2013)
3. The 2014 International Conference on Science and Engineering in Mathematics, Chemistry and Physics, (ScieTech, 2014) Jakarta-Indonesia, 13-14 January 2014.

4. The 2nd ISM International Statistical Conference 2014 (ISM-II): Empowering the Applications of Statistical and Mathematical Sciences
5. **Alkawasbeh, H. T.**, Sarif, N. M., Salleh. M. Z., Tahar R. M. 2015. Mixed convection boundary layer flow of nanofluid near the lower stagnation point about a solid sphere with convective boundary conditions *Proceeding of the 4<sup>th</sup> ICoGOIA 2015 International Conference 10 -11 August 2015 in Kuantan, Pahang*
6. The International Conference on Fractional Differentiation and its Applications was hold between 16 -18 July 2018 in Amman, Jordan.
7. **Hamzeh T. Alkawasbeh**, Mohammed Z. Swalmeh. 2019 Numerical Study of Stagnation Point Flow over a Sphere with GO/ Water and Kerosene Oil Based Micropolar Nanofluid *Proceeding of International Arab Conference on Mathematics and Computations will be hold between 24 -26 April 2019 in Zarqa, Jordan.*

### **Reviewer in International Journals**

- 1) Journal of Porous Media (ISI and Scopus Index IF 1.151)
- 2) Computers & Fluids. (ISI and Scopus Index IF 2.610)
- 3) Special Topics and Reviews in Porous Media-An International Journal (Scopus Index)
- 4) Mathematical Methods in the Applied Sciences (ISI and Scopus Index IF 2.860)

### **Editors of International Journals**

1. *SCIREA Journal of Mathematics*

<http://www.scirea.org/journal/Mathematics>).

2. International Journal of Applied Mathematics and Theoretical Physics

<http://www.sciencepublishinggroup.com/journal/editorialboard?journalid=322>

### **PhD – Co-Supervisor (on going)**

1) PhD student name: Mohammed zaki Swalmeh

Date of Register: 5/9/2017

Main supervisor: Prof Dr. Mustafa ben Mamat

Faculty of Informatics and Computing, Universiti Sultan Zainal Abidin Malaysia ((UniSZA)

Thesis Titled: Numerical Solution of Convection Boundary Layer Flow about a Solid Sphere and cylinder in Micropolar Nanofluid

2) PhD student name: Firas Alwaoi

Date of Register: 3/6/2018

Main supervisor: Prof Dr. Ruwaidiah Binti Idris

Department of Mathematics, Faculty of Sciences and Technology Universiti Malaysia Terengganu ((UITM)

Thesis Titled: Mathematical Models for Free and Mixed Convection Boundary Layer Flows of Casson Nanofluid

3) Master student name: Hebah Ghazi Mohammad Bani-Saeed,

Date of Register: 25/12/2018

Main supervisor: Prof. Feras M. Al Faqih

Department of Mathematics, Al-Hussein Bin Talal University, Jordan

Thesis Titled: Mathematical Models For Convective Heat Transfer and MHD Effects on Casson Nanofluid Flow

### **• RESEARCH INTEREST**

- Graph Theory
- Applied Mathematics
- Fluid Dynamic

### **• LANGUAGES**

Language	Reading	Listening	Speaking	Writing
Arabic	Native	Native	Native	Native
English TOEFL, ETS 99/120	Very good	Very good	Very good	Very good

### **• COMPUTER SKILLS**

- The International Computer Driving License (ICDL).

- Mathematic Program (Matlab, Maple)
- Mathematical Typing (Latex)

### • AWARDS

- Doctoral Scholarship Scheme(DSS) University Malaysia Pahang, for 36 months
- First class honors in Master Degree, 2007-2008.

### • REFERENCES

- 1) Prof. Dr. Shaher Momani , Department of Mathematics, Jordan University, Amman, Jordan P.O. Box: 7, Mobile: +962-799774979, E-mail : shahermmm@yahoo.com,
- 2) Dr. Fawwaz Awwad Wrikat, Department of Mathematics, Mu'tah University, AL-Karak 61710, Jordan. Mobile: +962-795511702, E-mail: Fawri@mutah.edu.jo
- 3) Dr. Mohd Zuki Ben Salleh, Futures and Trends Research Group, Faculty of Industrial Science and Technology Universiti Malaysia Pahang, 26300 UMP Kuantan, Pahang, Malaysia, Mobile: +60199040710, E-mail: zukikuj@yahoo.com
- 4) Prof Dr Roslinda Nazar; School of Mathematical Sciences, Faculty of Science and Technology, Universiti Kebangsaan Malaysia, 43600 UKM Bangi, Selangor, Malaysia, Email: rmn72my@yahoo.com
- 5) Prof Dr Ioan Pop; Department of Mathematics, Babeş-Bolyai University, R-400084 Cluj-Napoca, Romania, E-mail: popm.ioan@yahoo.co.uk