

CURRICULUM VITAE

Dr. Waseem Ghazi Alshanti

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1. Personal Data

Place of Birth: Amman - Jordan

Nationality: Jordanian

2. Education

- **Ph.D.** (Applied Mathematics) 2010, Curtin University, Perth, Australia.
- **M.Sc.** (Mathematics) 2004, University of Jordan, Amman, Jordan.
- **B.Sc.** (Mathematics) 2001, Mutah University, Alkarak, Jordan.

3. Ph.D. Dissertation

Mathematical modelling and numerical simulations of various granular dynamical problems, Curtin University, Perth, Australia.



4. Employment

Academic Positions

- Assistant Professor, Al-Zaytoonah University of Jordan, Amman, Jordan
October 2, 2022 – now.
- Assistant Professor, Jubail University College, Jubail, Saudi Arabia
November 27, 2017 – June 21, 2021.
- Assistant Professor, University of Hail, Hail, Saudi Arabia
February 22, 2011 – June 18, 2017.
- Lecturer and unit coordinator, Curtin University, Perth, Australia
February 18, 2009 – December 22, 2010.
- Sessional academic staff, Curtin University, Perth, Australia
January 18, 2008 – January 22, 2009.
- Lecturer, King Saud University, Riyadh, Saudi Arabia
September 18, 2004 – August 31, 2007.
- Instructor, Jordanian Ministry of Education, Sahhab, Jordan
September 1, 2001– September 10, 2004.

5. Research Interests

Current Research: Applied Mathematical Modelling (Fluid Dynamics, Granular Flow, Geomechanics) Theory, Continuum Mechanics Theorem, Numerical Approaches, Advanced Real Analysis, Integral Inequalities, Ostrowski's Type inequalities.

6. Membership in Scientific Societies and Associations

- Australian Mathematical Sciences Institute (AMSI).
- Australia and New Zealand Industrial and Applied Mathematics (ANZIAM).
- Australian Technology Network (ATN LEAP).
- Commonwealth Scientific and Industrial Research Organisation (CSIRO).

7. Honors and Awards

- 2020:** Proud of you award, Jubail University College, SA.
- 2019:** Proud of you award, Jubail University College, SA.
- 2009:** Mathematics Hons & Postgrad Prize, Curtin University, Australia.
- 2009:** Curtin University Completion Scholarship, Curtin University, Australia.
- 2007:** Outstanding Teaching Award in the School of Mathematics & Statistics, King Saud University, SA.



9. Teaching Experience

- *Undergraduate Courses*

Calculus I, II & III, Set Theory, Foundations of Mathematics, Linear Algebra, Discrete Mathematics, Mathematics for Chemistry, Elementary Calculus, Introduction to Linear Algebra & Differential Equations, Applied Mathematics I, Applied Mathematics II Engineering Mathematics 120, 140, 233 & 302. Introduction to Probability, Numerical Analysis, Measure Theory, Ordinary Differential Equations, Partial Differential Equations, Numerical Methods, Elements of Differential Equations, Math for Management I, Statistical Methods for Management I (including SPSS Package).

10. Publications

W. G. Alshanti, Y.H.Wu, Numerical Simulation of Vertical Penetration into Granular Beds, International Conference on Mathematical Applications in Engineering (ICMAE'10), 3-4 August 2010, Kuala Lumpur, Malaysia.

W. G. Alshanti and A. Alshanti, Dynamics of a Projectile Obliquely Penetrating a Granular System, 2nd International Conference on Pure and Applied Sciences, Jun 1-5, 2016, Yildiz Technical University, Turkey.

W. G. Alshanti, Y.H.Wu. Numerical Simulation of Vertical Penetration into Granular Beds. Australian Journal of Basic and Applied Sciences. 5(2): 182-188; (2011).

W. G. Alshanti, B. Wiwatanapataphee, Y. Wu. Numerical simulation of normal stress distribution on the on the base of granular piles. Journal of Mathematical Sciences: Advances and Applications. 14(1): 1-16; (2012).

W. G. Alshanti. Stress pulsation mechanism during filling and discharging granular materials form silos. Cogent Mathematics, 3(1), 1189376. (2016).

W. G. Alshanti and A. Alshanti, Linear and Non-linear Trajectories of Oblique Penetration into a Granular System, Applied Mathematics & Information Sciences, vol. 11.3, pp. 851-855 (2017).

W. G. Alshanti. On the Horizontal Deviation of a Spinning Projectile Penetrating into Granular Systems. Applied Computational Intelligence and Soft Computing. vol. 2017, pp. 1-14, (2017).



W. G. Alshanti, A. Qayyum. A Note On New Ostrowski Type Inequalities Using A Generalized Kernel. Bulletin of Mathematical Analysis and Applications. vol. 9 (1), pp. 1-18, (2017).

W. G. Alshanti, A. Qayyum. Ostrowski Type Inequalities by Using Generalized Quadratic Kernel. Journal of Inequalities and Special Functions (JISF). vol. 8 (4), pp. 111-135, (2017).

W. G. Alshanti. Discrete and Continuum Modeling of Granular Systems - Mathematical Approaches. Publisher: Lambert Academic Publishing ISBN: 978-613-3-99672-4 - December 2017.

W. G. Alshanti, A Perturbed Version of General Weighted Ostrowski Type Inequality and Applications. International Journal of Analysis and Applications (IJAA). vol. 16 (4), pp. 503-517, (2018).

W. G. Alshanti and Gradimir V. Milovanovic, Double-sided Inequalities of Ostrowski's Type and Some Applications. Journal of Computational Analysis and Applications (JOCAA). pp 724-736, (2020).

W. G. Alshanti, Inequality of Ostrowski Type for Mappings with Bounded Fourth Order Partial Derivatives. Abstract and Applied Analysis. Volume 2019 (2019).

W. G. Alshanti, On the Horizontal Deviation of a Spinning Projectile Penetrating into Granular Systems, International Virtual Conference on Bridging Innovative Trends in Mathematics, Engineering & Technology (BITMET 2020), Dec 18 & 19 , 2020, Bannari Amman Institute of Technology, India.

W. G. Alshanti, Riemann-Stieltjes Integrals and Some Ostrowski Type Inequalities. The Australian Journal of Mathematical Analysis and Applications. Volume 18, Issue 1 (2021).

W. G. Alshanti, Iqbal M. Batiha, Ma'mon Abu Hammad, Roshdi Khalil, A novel analytical approach for solving partial differential equations via a tensor product theory of Banach spaces, Partial Differential Equations in Applied Mathematics, Vol. 8, (2023), 100531..

W. G. Alshanti, Iqbal M. Batiha, Ahmad Alshanty, Atomic Solutions of Partial Differential Equations via Tensor Product Theory of Banach Spaces, Contemporary Mathematics, Vol. 4, no. 2, (2023), 286-295.

W. G. Alshanti, Iqbal M. Batiha, Ahmad Alshanty, Amjed Zraiqat, Iqbal H. Jebril, Ma'mon Abu Hammad, Perturbed Trapezoid Like Inequalities, Science and Technology Indonesia, Vol. 8, no. 2, (2023), 205211.



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Curriculum Vitae Form - Procedures of Appointment and Promotion Committee

W. G. Alshanti, Ahmad Alshanty, Amjed Zraiqat, Iqbal Jebril, Ma'mon Abu Hammad, Iqbal Batiha, Cubature Formula for Double Integrals Based on Ostrowski Type Inequality, International Journal of Difference Equations, 17(2)(2023) 379-387

W. G. Alshanti, A RELIABLE ANALYTICAL METHOD FOR SOLVING KLEIN-GORDAN EQUATION BY TENSOR PRODUCT THEORY OF BANACH SPACES, 2023 International Conference on Information Technology: Cyber security Challenges for Sustainable Cities, ICIT 2023 - Proceeding, 2023.

W. G. Alshanti, ON A-HOMOGENEOUS FRACTIONAL DIFFERENTIAL EQUATIONS, 2023 International Conference on Information Technology: Cyber security Challenges for Sustainable Cities, ICIT 2023 - Proceeding, 2023.