

CURRICULUM VITAE

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1. Personal Data

Date of Birth: December 26, 1979

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).