Ali Ibrahim Zein

Assistant Professor	Wadi - Alhariya St.
Department of Mathematics	Hebron, Palestine
Palestine Polytechnic University	Email: alizein@ppu.edu

Personal Information

Date of Birth:	12.02.1978
Place of Birth:	Hebron, Palestine
Place of Residence:	Yatta, Palestine
Marital Status:	Married, two children

Education

Laacation	
10/2007 - 6/2010	Ph.D., Applied Mathematics, Institute for Analysis and Numerics, Otto-von-Guericke University of Magdeburg, Germany.
	Average: 1.0 (Rating: Magna Cum Laude)
2002 - 2005	M.Sc., Applied Mathematics,
	Al-Quds University, Palestine.
	Average: 94.4% (Rating: Excellent)
1996 - 2001	B.Sc., Electrical Engineering,
	Birzeit University, Palestine.
	Average: 91% (Rating: High Distinction)
1996	General Secondary Education Certificate (Tawjihi),
	Yatta Secondary School, Palestine.
	Average: 96.9% (Rating: Excellent)

Theses

- Ph.D.: Numerical methods for multiphase mixture conservation laws with phase transition, Otto-von-Guericke University of Magdeburg, Germany, 2010.
 Supervisor: Prof. Dr. Gerald Warnecke.
- M.Sc.: Oscillation of nth order neutral delay differential equations, Al-Quds University, Palestine, 2005.
 Supervisor: Dr. Taha Abu-Kaff.

Work Experience

9/2010 - present:	Assistant Professor, Department of Applied Mathematics, Palestine Polytechnic University, Palestine.
2005 - 2007	Lecturer, Department of Applied Mathematics, Palestine Polytechnic University, Palestine.
2004 - 2005	Teaching and Research Assistant, Department of Mathematics, Al-Quds University, Palestine.
2001 - 2004	Teaching and Research Assistant, Department of Electronic Engineering, Al-Quds University, Palestine.

Academic Honors

- Scholarship awarded by Birzeit University for excellence in the general secondary school examination, full funding of the B.Sc. studies (1996-2001).
- First position among the graduates of the entire Engineering Faculty, Birzeit University, 2001.
- First position among the graduates of the entire university, Al-Quds University, 2005.
- German Academic Exchange Service (DAAD) Ph.D. Scholarship (2007-2010).

Publications

- A. Zein, M. Hantke, and G. Warnecke. Modeling phase transition for compressible twophase flows applied to metastable liquids. J. Comput. Phys., 229(8):2964-2998, 2010.
- A. Zein, M. Hantke, and G. Warnecke. On the modeling and simulation of a laser-induced cavitation bubble. Int. J. Numer. Meth. Fluids, 73:172-203, 2013.
- A. Zein, and T. Abu-Kaff. Bounded oscillation of higher order neutral differential equations with oscillating coefficients. Appl. Math. E-Notes, 6:126-131, 2006.
- R. Al-Hamouri and A. Zein, Oscillation results of higher order nonlinear neutral delay differential equations, Electronic Journal of Qualitative Theory of Differential Equations, 2014, No. 19, 1-7, 2014.
- R. Al-Hamouri and Ali Zein, Oscillation criteria for certain even order neutral delay differential equations, International Journal of Differential Equations, vol. 2014, Article ID 437278, 2014.

Talks in Workshops

• On the modeling and simulation of laser-induced cavitation bubbles, FOURTH WORK-SHOP "Micro-Macro Modelling and Simulation of Liquid-Vapour Flows", Febreuary, 4-6, 2009, Aachen, Germany,.

- Modeling phase transition for compressible two phase flows applied to metastable liquids, NINTH Hirschegg Workshop on Conservation Laws, September, 6-12, 2009, Hirschegg, Austria.
- On the numerical simulation of a laser-induced cavitation bubble with phase transition, FIFTH WORKSHOP "Micro-Macro Modelling and Simulation of Liquid-Vapour Flows", April, 14-16, 2010, Strasbourg, France.

Master Students

- Razan Hamouri, Numerical methods for Euler equations, 2012.
- Hiba Jawaeda, Oscillation of second order nonlinear neutral dynamic equations on time scales, 2014.