

Dr.AMIR ALI

CONTACT INFORMATION

Department of Mathematics
University of Malakand
Chakdara Dir Lower
Khyber Pakhtunkhwa Pakistan

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RESEARCH INTERESTS

Localised modes in nonlinear systems, Dynamical systems

EDUCATION

Ph.D., School of Mathematical Sciences, Group of Computational & Industrial Mathematics, University of Nottingham, United Kingdom, 2009–2012

- Thesis Topic: *Localised excitations in long Josephson junctions with phase-shifts with time-varying drive*
- Thesis available online:
https://www.maths.nottingham.ac.uk/personal/hs/paper2/thesis_Amir.pdf
- Adviser: Dr. Hadi Susanto
- Area of Study: Nonlinear systems in applied Mathematics

M.Phil., Department of Mathematics University of Malakand Chakdara Dir (L), KPK Pakistan 2006–2008

- Thesis Topic: *Fredholmness of some Degenerate Elliptic Operators in R^n*
- Adviser: Professor Sulaimon Iskhokov
- Area of Study: Nonlinear degenerate differential equations

M.Sc., University of Peshawar, N-W.F.P Pakistan, 2003

- Real analysis, Complex analysis, Hydrodynamics, Topology, Differential Geometry, Numerical Analysis, Measure Theory and Integration, Programming Languages, Mathematical Statistics.

B.Sc., University of Peshawar, N-W.F.P Pakistan, 2000

- Mathematics and Computer Sciences.

F.Sc., Govt. Jahanzeb College Saidu Sharif Swat, 1997

- Pre-Engineering

PUBLICATIONS

- Amir Ali, Hadi Susanto, and Jonathan A. D. Wattis "Breathing modes of long Josephson junctions with phase shifts" *SIAM J. Appl. Math.* 71, 242-269 (2011).
- Amir Ali, Hadi Susanto, and Jonathan A. D. Wattis "Rapidly oscillating ac-driven long Josephson junctions with phase-shifts", *Physica D (Nonlinear Phenomena)* 246, 1522 (2013).
- Amir Ali, Hadi Susanto, and Jonathan A. D. Wattis "Localised defect modes of sine-Gordon equation with a double well potential with phase-shift", submitted to *Journal of Applied Physics*, (2012).
- Amir Ali, Hadi Susanto, and Jonathan A. D. Wattis "Wave radiation in stacked long Josephson junctions with phase-shifts", submitted to *Journal of Physical review B*, (2012).

TEACHING EXPERIENCE

Assistant professor in Mathematics, University of Malakand, Chakdara Dir(Lower), Khyber Pakhtunkhwa Pakistan

- June 2013 till date.

Lecturer in Mathematics, University of Malakand, Chakdara Dir(Lower), Khyber Pakhtunkhwa Pakistan

- September 2005 May 2013

Lecturer in Mathematics, Govt. Degree College Matta, Swat Khyber Pakhtunkhwa Pakistan.

- September 2004 to September 2005

Lecturer in Mathematics, Swat City College of Information Technology and Computer Sciences, Khyber Pakhtunkhwa Pakistan

- September 2003 to September 2004

MATHEMATICAL
EXPERTISE

Real and Complex Analysis, Measure Theory, Calculus and Analytical Geometry, Hydrodynamics, Topology, Differential Geometry, Numerical Analysis, Functional Analysis, Ordinary Differential Equations, Partial Differential Equations, Mathematical Modelling, Dynamical systems, Nonlinear Waves

SCHOLARSHIP

Pursued PhD studies at the University of Nottingham UK funded by Higher Education Commission of Pakistan under the faculty development program of University of Malakand Pakistan (2009-2012).

REFERENCES
AVAILABLE TO
CONTACT

Dr. Hadi Susanto (email: Hadi.Susanto@nottingham.ac.uk; Tel: +44 115 951 3896, Fax: +44 115 951 4951)

- Lecturer in School of Mathematical Sciences University of Nottingham UK,
- *Dr. Hadi Susanto is my PhD supervisor.*

Dr. Jonathan Wattis (email: Jonathan.Wattis@nottingham.ac.uk; Tel: +44 (0)115-951-3857, Fax: +44 (0)115-951-3837)

- Associate professor and reader in the School of Mathematical Sciences University of Nottingham UK
- *Dr. Jonathan Wattis is my PhD co-supervisor.*