



Nasrin MALEKZADEH GORADEL
Siena University | Siena/Italy
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EDUCATION

B.S. IN PURE MATHEMATICS	2004-2008
UNIVERSITY OF MOHAGHEGH ARDABILI (IRAN), TOTAL GPA: 17.82/20	
B.S. IN CIVIL ENGINEERING	2006-2010
UNIVERSITY OF MOHAGHEGH ARDABILI (IRAN), TOTAL GPA: 17.15/20	
M.SC. IN PURE MATHEMATICS	2008-2010
M.SC. THESIS: GEOMETRICAL THEORY OF FLUID FLOWS AND DYNAMICAL SYSTEM UNIVERSITY OF MOHAGHEGH ARDABILI (IRAN), TOTAL GPA: 17.16/20	
PH.D. IN PURE MATHEMATICS	2013-2017
PH.D THESIS: ON THE CLASSIFICATION OF SEMI-SYMMETRIC CONTACT METRIC MANIFOLDS AZARBAIJAN SHAHID MADANI UNIVERSITY (IRAN), TOTAL GPA: 19.50/20	

SKILLS

ENGINEERING SOFTWARE	Experienced: AutoCAD
MATHEMATICAL SOFTWARE	Experienced: Matlab
PROGRAMMING LANGUAGES	Familiar: Python Libraries: Matplotlib Numpy Pandas Scikit-learn PyTorch
WORD PROCESSORS	Experienced: TeX Microsoft Word
LANGUAGES:	Native: Persian Turkish Fluent: English

RESEARCH INTEREST

- Differential Geometry and its Application in Deep Learning
- Riemannian Geometry and its Application in Deep Learning
- Manifold Learning (Machine Learning)
- Information Geometry (Machine Learning)
- Shape Analysis (Computer Vision)

RESEACH EXPERIENCE

VISITING STUDENT	2016 / France
UNDER SUPERVISION OF PROF. THOMAS DELZANT, STRASBOURG UNIVERSITY, STRASBOURG (6 MONTHS)	

WORK EXPERIENCE

IRAN'S NATIONAL ELITES FOUNDATION	2010-2013 / Full Time
RESEARCH PROJECT COORDINATOR	
TEHRAN MATHEMATICS HOUSE	2017 - 2022 / Full Time
SCIENTIFIC UNIT MANAGER TEAM LEADER AND SUPERVISOR IN WMC & IMC & ASMO	

TEACHING EXPERIENCE

CALCULUS I AND II	Part time
MOHAGHEGH ARDEBILI UNIVERSITY (2010-2012) AZARBAIJAN SHAHID MADANI UNIVERSITY (2013-2015) FARHANGIAN UNIVERSITY (2018-PRESENT)	
DIFFERENTIAL EQUATIONS	Part time
MOHAGHEGH ARDEBILI UNIVERSITY (2010-2012) AZARBAIJAN SHAHID MADANI UNIVERSITY (2014-2015) FARHANGIAN UNIVERSITY (2018-PRESENT)	
DISCRETE MATHEMATICS	Part time

GEOMETRY*Part time***PUBLICATION**

- N. Malekzadeh, E. Abedi, Semi-symmetric contact metric manifolds of dimension ≥ 5 , Turkish J. Math., 2017, DOI: 10.3906/mat-1612-107.
- M. Yousefikhoshbakht, N. Malekzadeh, M. Sedighpour, Solving the Traveling Salesman Problem Based on The Genetic Reactive Bone Route Algorithm whit Ant Colony System, International Journal of Production Management and Engineering, 2016, DOI:10.4995/ijpme.2016.4618.
- N. Malekzadeh, E. Abedi, U.C. De , Pseudosymmetric and Weyl-pseudosymmetric (κ, μ) -contact metric manifolds, Archivum Mathematicum, 52, 2016, 1-12.
- H. Larki , N. Malekzadeh, F. Nakhaei, M. Yousefikhoshbakht, An Optimization Meta-heuristic Algorithm for the Capacitated Vehicle Routing Problem, Journal of Transportation, January 2013 (in Persion).
- N. Malekzadeh, E. Abedi, Special solitons on 3-manifolds, Submitted . <https://arxiv.org/abs/1606.05493>.
- N. Malekzadeh, E. Abedi, Ricci-generalized pseudosymmetric (κ, μ) -manifolds, Submitted, <http://arxiv.org/abs/1708.05783>.
- N. Malekzadeh , E. Abedi, ϕ -pseudo symmetric (κ, μ) -contact metric manifolds, Submitted.

CONFERENCES AND SEMINARS

- Seminar on Geometry and Topology, Amirkabir University of Technology, Tehran-Iran, December 15-17, 2015, Pseudosymmetric almost Kenmotsu manifolds (Speaker).
- The 46th Annual Iranian Mathematics Conference, 25-28 August 2015, Yazd University, Yazd, Iran, Classification pseudosymmetric (κ, μ) -contact metric manifolds(Speaker).
- The 46th Annual Iranian Mathematics Conference, 25-28 August 2015, Yazd University, Yazd, Iran, Total domination number of a family of graph product (Speaker).
- Annual Iranian Mathematics Conference, Tabriz-Iran, 27-30 August 2012, Total domination in Cartesian product $P_m \times C_n$ (Speaker).
- Proposal of Ph.D thesis: On the classification of semi symmetric contact metric manifolds, Azarbaijan Shahid Madani University ,Tabriz-Iran, Full 2014 (Speaker).
- M.Sc. seminar: Geometrical theory of chaos of a Hamiltonian system, University of Mohaghegh Ardabili ,Ardabil-Iran, Spring 2010 (Speaker).
- B.S. seminar: The Harmonic series diverges again and again, University of Mohaghegh Ardabili , Ardabil-Iran, Winter 2009 (Speaker).

WORLD CHAMPIONS ACTIVITES**WORLD MATHEMATICS CHAMPIONSHIPS(WMC)***2018 / United Kingdom / London*

TEAM LEADER AND SUPERVISOR, RESULT: GOLD MEDAL

ASIAN SCIENCE & MATH OLYMPIAD (ASMO)*2018 / Malaysia / Kota Kinabalu*

TEAM LEADER AND SUPERVISOR, RESULT: BRONZE MEDAL

INTERNATIONA MATH COMPETITION (IMC)*2020 / Indonesia*

TEAM LEADER AND SUPERVISOR, RESULT IN KEY STAGE II: SILVER MEDAL

INTERNATIONA MATH COMPETITION (IMC)*2020 / Indonesia*

TEAM LEADER AND SUPERVISOR, RESULT IN KEY STAGE III: BRONZE MEDAL

HONORS**DISTINGUISHED STUDENT DURING B.S.***2005*

NATIONAL ORGANIZATION FOR DEVELOPMENT OF EXCEPTIONAL TALENTS

GRADUATED WITH FIRST RANK IN PURE MATHEMATICS, B.S.*2008*

MOHAGHEGH ARDEBILI UNIVERSITY

PARALLEL STUDY AT TWO COURSES (PURE MATHEMATICS AND CIVIL ENGINEERING) DURING B. S. 2006-2010

MOHAGHEGH ARDEBILI UNIVERSITY

DISTINGUISHED STUDENT DURING M.Sc. 2009

NATIONAL ORGANIZATION FOR DEVELOPMENT OF EXCEPTIONAL TALENTS

GRADUATED WITH SECOND RANK IN PURE MATHEMATICS, M.S. 2010

MOHAGHEGH ARDEBILI UNIVERSITY

AWARDS

PERMISSION TO STUDY AT TWO DEGREE(PURE MATHEMATICS AND CIVIL ENGINEERING) 2006

MOHAGHEGH ARDEBILI UNIVERSITY

ADMITTED IN M.S. DISTINGUISHED STUDENT QUOTA 2008

MOHAGHEGH ARDEBILI UNIVERSITY

THE SABBATICAL GRANTS AWARD FOR 6 MONTH, 2016

AZARBAIJAN SHAHID MADANI UNIVERSITY

WORKSHOPS

ALGEBRA AND ITS APPLICATIONS 2012

SECOND SEMINAR ON ALGEBRA AND ITS APPLICATIONS WORKSHOP

CONFIGURATION SPACES: GEOMETRY, TOPOLOGY DYNAMICS PHYSICS AND TECNOLOGY 2015

8TH INT'L SEMINAR ON GEOMETRY AND TOPOLOGY WORKSHOPS, D. ALEKSEEVSKY

INTRODUCTION TO NEUROGEOMETRY IN VISION AND COFORMAL GEOMETRY OF SPHERES 2015

8TH INT'L SEMINAR ON GEOMETRY AND TOPOLOGY WORKSHOPS, A. ZEGHIB

MEMBERSHIP

- Researcher Club
- Organization for Engineering order of Building
- Presidency of Islamic Republic of Iran, Nation Elites Foundation