

CURRICULUM VITAE

for Ferit Öztürk

March 2017

Address: Ferit Öztürk,
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Academic degrees

Professor in Topology, December 2016 in Boğaziçi University

Associate Professor in Topology, April 2010 in Boğaziçi University

Assistant Professor in Topology, 2005 in Boğaziçi University

PhD: Mathematics, Middle East Technical University, Ankara; 2001

Thesis title: *Generalised Thurston-Bennequin invariants of real algebraic curves and surfaces*

Supervisor: Prof. Sergey Finashin

MSc: Electrical and Electronics Engineering, Bilkent University, Ankara; 1993

Thesis title: *2-40 GHz MMIC Switches*

BSc: Double major, Bilkent University, Ankara; 1990

Electrical and Electronics Engineering, Physics

Academic positions

2016 - ... Professor

Boğaziçi University Mathematics Department, İstanbul

2010 - 2016 Associate Professor

Boğaziçi University Mathematics Department, İstanbul

2005 - 2010 Assistant Professor

Boğaziçi University Mathematics Department, İstanbul

2003 - 2005 Instructor

Boğaziçi University Mathematics Department, İstanbul

2003 Spring, Research associate

IPAM, Institute for Pure and Applied Mathematics, UCLA, USA

2001 - 2002, Postdoc

Centre de Mathématiques (CMAT), Ecole Polytechnique, Palaiseau, France

1994 - 1995, 1998 - 2001, Research assistant

Middle East Technical University Mathematics Department, Ankara

1990 - 1993, Research assistant

Bilkent University Electrical and Electronics Engineering, Ankara

Academic visits

2015 February-September, Visiting, I2M Aix-Marseille Université, Marseille, France

2015 September-December, Visiting CNRS position, l'Institut Camille Jordan, Université Claude Bernard - Lyon I, France

2011 January-February, Visiting, MATCUER UNAM, Cuernavaca, Mexico

2009 September-December, Research associate, Mathematisches Forschungsinstitut Oberwolfach, Germany

Research interests

Contact and symplectic topology; Real algebraic topology; Singularity theory

Invited talks - some recent

On the Legendrian simplicity of real links, in Topology of Algebraic Varieties, A Conference in Honor of the 60th Birthday of Anatoly Libgober; Jaca, Spain, June 2009

First steps in real contact topology, in Brussels-Cologne joint seminars on symplectic and contact geometry; Universität zu Köln, November 2009

There is a unique real tight 3-ball, in METU Topology weekend seminars; Ankara, December 2009

On the classification of real tight solid tori, in METU Topology weekend seminars; Ankara, April 2010

Real contact structures and real open books, MATCUER Colloquium; Cuernavaca, February 2011

Real Lefschetz fibrations and real open books, CIMAT; Guanajuato, February 2011

Stable Hamiltonian structures on singularity links, Indian Institute of Science; Bangalore, February 2013

From real S^3 to real 3-manifolds, Tropical Geometry in Europe Meeting, IMBM; Istanbul, April 2014

Real tight solid tori, Tropical Geometry in Europe Meeting, Berlin; March 30-31, 2015.

Contact invariant on the link of almost rational singularities, Geometry Seminars in ICJ, Lyon; October 9, 2015.

From real S^3 to real 3-manifolds, İstanbul University Math Department Colloquium, February 2016.

Contact invariant on the link of almost rational singularities, in METU Topology weekend seminars; Ankara, November 2016

Contact structures on almost rational singularity links, Geometry Seminars in The Institute of Mathematical Sciences, Chennai; January 24, 2017.

Conferences attended - some recent

23rd Gökova Geometry-Topology Conference, May 2016, Turkey

Flexibility and Contact Geometry, 4-16 December 2015 at Université Libre de Bruxelles

Recent Challenges in Contact Geometry, 8-12 June 2015 at CIRM, Marseille

Moduli Spaces in Symplectic Topology and in Gauge Theory, June 1-5, 2015 at CIRM, Marseille

Tropical Geometry in Europe Meeting, March 2015, Berlin

Geometry of Singular Spaces and Maps, 2-6 March 2015 at CIRM, Marseille

Real Singularities and Applications, February 2015 at CIRM, Marseille

Local and Global Invariants of Singularities, February 2015 at CIRM, Marseille

21st Gökova Geometry-Topology Conference, May 2014, Turkey

Tropical Geometry in Europe Meeting, April 2014, IMBM, Istanbul, Turkey

CAST Summer School and Conference, July 2012, Alfréd Rényi Institute of Mathematics, Budapest, Hungary

Recent projects and awards

TÜBİTAK-EEEAG Project No. 111E285 *A Hybrid (Local Spherical, Global Topological) Map Building and Reasoning Methodology for Multirobot Systems for Comprehensive Environmental Perception*, 2013-2015, Researcher

TÜBİTAK-ARDEB Project No. 109T671 *Three dimensional real contact manifolds and knots therein*, 2010-2013, Director

BAP Project No. 05HB601, *Sequential simultaneous motion: convergence properties in gradient projection systems*, 2005

Boğaziçi Üniversitesi "Excellence in Teaching Award 2008"

Boğaziçi Üniversitesi "Academic Success Award" 2006, 2007, 2008, 2014

Other positions

Codirector of IMBM (Istanbul Center for Mathematical Sciences), 2012-...

Member of the editor board for Matematik Dünyası, the official journal of Turkish Mathematical Society, 2009 - ...

Reviewer for Mathematical Reviews

Referee for Turkish Journal of Mathematics

Referee for Hacettepe Journal of Mathematics and Statistics

Referee for Anadolu University Journal of Science and Technology

Theses supervised

PHD

Merve Seyhun, 2017 (expected), *Heegaard-Floer Theory on Real Contact 3-manifolds*

Deniz Seviş Şenel (in Boğaziçi Univ EEE Dept – coadvisor), 2017 (expected), *Realizations, Behavior and Information Structure in Multirobot Navigation*

MSc

Yasemin Kara, 2006, *Cohomology Groups of Mapping Class Groups*

Murat Sağlam, 2007, *Proof of the Weinstein Conjecture For Overtwisted Closed Contact 3-manifolds*

Semih Özlem, 2008, *First steps into Heegard Floer Homology*

Yusuf Gören, 2010, *Indices of Orbits in Contact Homology*

Sinan Eden, 2011, *Pseudo-Anosov Diffeomorphisms and the Monodromy of an Open Book*

Metin Özсарfati, 2011, *Denseness of Morse-Smale Systems on Surfaces*

Mustafa Cengiz, 2013, *Milnor Open Books and Milnor Fillable Contact Structures*

S. Erman Çineli, 2015, *Correspondence Theorem in Tropical Geometry*

Courses taught

Calculus; Mathematical Structures; Discrete Mathematics; Linear Algebra; Differential Equations; Algebra; Real Analysis; Calculus on Manifolds; Calculus of Variations; Projective Geometry; Differential Topology; Algebraic Topology; Singularity Theory

ARTICLES

“*Contact structures on AR-singularity links*”, (with Ç. Karakurt), submitted

“*Sequential gradient dynamics in real analytic Morse systems*”, (with H. I. Bozma), Dynamical Systems, 2016, DOI: [dx.doi.org/10.1080/14689367.2016.1172557](https://doi.org/10.1080/14689367.2016.1172557)

“*Finding optimal isomorphic goal adjacency*” (with D. Şenel, H. I. Bozma), ICRA 2016 (IEEE International Conference on Robotics and Automation).

“*Real open books and real contact structures* (with N. Salepci), Advances in Geometry, 2015; 15 (4): 415–431.

“*A real open book not fillable by a real Lefschetz fibration*” (with N. Salepci), Internat. J. Math. (April 2014); 25 (4).

“*There is a unique real tight 3-ball*” (with N. Salepci), Int. Math. Res. Notices 7 (2011), 1573–1596.

“*Klein geometries, parabolic geometries and differential equations of finite type*” (with E. Abadoglu and E. Ortaçgil), J. of Lie Theory. 18 (2008), no. 1, 67–82.

“*Brieskorn manifolds as contact branched covers of spheres*” (with K. Niederkrüger), Period. Math. Hungar. 54 (2007), no. 1, 85–97.

“*Generalised Thurston-Bennequin invariants for real algebraic surface singularities*” Manuscripta Mathematica 117 (2005), 27–298.