

TOLGA ETGÜ

CONTACT INFORMATION

Department of Mathematics
Koç University
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EDUCATION

University of California at Berkeley

Ph. D. in Mathematics, May 2002

Dissertation: *Symplectic structures on product 4-manifolds*

Advisor: Robion C. Kirby

Middle East Technical University

M.S. in Mathematics, July 1997

Thesis: *Seiberg-Witten invariants of Kähler surfaces*

Advisor: Turgut Önder

B.S. in Mathematics with high honors, July 1994

TEACHING AND RESEARCH EXPERIENCE

Koç University

Professor (December 2013 – present), *Associate Professor* (February 2008 – December 2013),
Assistant Professor (September 2004 – February 2008)

Max-Planck Institute for Mathematics, Bonn

Research Visitor (July – August 2011)

Mathematical Sciences Research Institute, Berkeley

Research Member (August 2009 – May 2010)

McMaster University

Postdoctoral Fellow (August 2002 – August 2004)

University of California at Berkeley

Teaching assistant (August 1997 – May 2002), *Research assistant* (August – December 2001),

Instructor (Summer 2000 & Summer 2001), *Head teaching assistant* (August 1999 – May 2000)

Middle East Technical University

Research assistant (September 1994 – July 1997)

HONORS AND AWARDS

TÜBİTAK (Scientific & Technological Research Council of Turkey) Research Encouragement Award, 2009

Parlar Foundation Research Encouragement Award, 2009

Masatoshi Gündüz İkedo Science Award, 2008

Doçent Title, Higher Education Council of Turkey, 2006

Young Investigator Award, TÜBİTAK, 2005

Distinguished Young Scholar Award, Turkish Academy of Sciences, 2005

RESEARCH INTERESTS

Low dimensional, symplectic and contact topology, symplectic cohomology, Heegaard Floer homology

PUBLICATIONS

- Koszul duality patterns in Floer theory, (with Yankı Lekili), preprint, arXiv:1502.07922.
- Uniqueness of area minimizing surfaces for extreme curves, (with Barıř Cořkunüzer), *Revista Matemática Iberoamericana*, **30** (2014), 1135–1148.
- Tight contact structures on laminar free hyperbolic three-manifolds, *International Mathematics Research Notices*, **2012** (2012), 4775–4784.
- On the relative Giroux correspondence, (with Burak Ozbagci), *Low-dimensional and symplectic topology*, 65–78, Proceedings of Symposia in Pure Mathematics, **82**, American Mathematical Society, Providence, RI, 2011.
- Examples of planar tight contact structures with support norm one, (with Yankı Lekili), *International Mathematics Research Notices*, **2010** (2010), 3723–3728.
- On the contact Ozsváth-Szabó invariant, (with Burak Ozbagci), *Studia Scientiarum Mathematicarum Hungarica*, **47** (2010), 90–107.
- Partial open book decompositions and the contact class in sutured Floer homology, (with Burak Ozbagci), *Turkish Journal of Mathematics*, **33** (2009), 295–312.
- Symplectic and Lagrangian surfaces in 4-manifolds, *Rocky Mountain Journal of Mathematics*, **38** (2008), 1975–1989.
- A note on fundamental groups of symplectic torus complements in four-manifolds, (with B. Doug Park), *Journal of Knot Theory and its Ramifications*, **17** (2008), 1063–1075.
- Elliptic open books on torus bundles over the circle, *Geometriae Dedicata*, **132** (2008), 53–63.
- A note on the geometry of M^3 and symplectic structures on $S^1 \times M^3$, *Acta Mathematica Hungarica*, **114** (2007), 195–199.
- Explicit horizontal open books on some plumbings, (with Burak Ozbagci), *International Journal of Mathematics*, **17** (2006), 1013–1031.
- Symplectic tori in rational elliptic surfaces, (with B. Doug Park), *Mathematische Annalen*, **334** (2006), 679–691.
- Homologous non-isotopic symplectic tori in homotopy rational elliptic surfaces, (with B. Doug Park), *Mathematical Proceedings of the Cambridge Philosophical Society*, **140** (2006), 71–78.
- Lagrangian tori in homotopy elliptic surfaces, (with David McKinnon and B. Doug Park), *Transactions of the American Mathematical Society*, **357** (2005), 3757–3774.
- Homologous non-isotopic symplectic tori in a $K3$ -surface, (with B. Doug Park), *Communications in Contemporary Mathematics* **7** (2005), 325–340.
- Non-isotopic symplectic tori in the same homology class, (with B. Doug Park), *Transactions of the American Mathematical Society*, **356** (2004), 3739–3750.
- Lefschetz fibrations, complex structures and Seifert fibrations on $S^1 \times M^3$, *Algebraic and Geometric Topology*, **1** (2001), 469–489.

SERVICE

Associate Dean, College of Sciences, Koç University	July 2013 - present
Member of the Academic Council, Koç University	August 2013 - present
Organizing Committee Member, Gökova Geometry-Topology Conferences	2010 - present
Executive Committee Member, Turkish Mathematical Society	April 2011-September 2012
Coordinator, 24th National Mathematics Symposium	September 2011
Scientific Committee Member, 2nd İzmir Algebraic and Geometric Topology Days	January 2011
Scientific Committee Member, 23rd National Mathematics Symposium	August 2010

Organizing Committee Member, İstanbul Contact Geometry and Topology Workshop	June 2010
Organizing Committee Member, İstanbul Contact Topology Workshop	March 2009
Organizing Committee Member, İzmir Algebraic and Geometric Topology Days	January 2009
Organizing Committee Member, 21st National Mathematics Symposium	September 2008