

# Kadriye Nur Sağlam | CV

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## Education

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### Ph.D

Mathematics, Minnesota/ USA  
GPA= 3.75/4.00

University of Minnesota

2011–2017

### M.A.

Mathematics, Ankara/ TURKEY  
GPA= 3.61/4.00

Middle East Technical University

2007–2011

### B.S.

Mathematics, Izmir/ TURKEY  
GPA = 88.03/100 (OR 3.86/4.00)

Aegean University

2001–2006

Graduated with 4th place

## Ph.D. Thesis

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**Title:** *Construction of Exotic Symplectic 4-Manifolds and Fillings of Contact 3-Manifolds*

**Advisor:** Anar Akhmedov

## Research Interest

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Low Dimensional Topology, Symplectic Topology and Contact Topology.

In particular, Classification Problems for Smooth and Symplectic 4-Manifolds, Exotic Smooth Structures on Small 4-Manifolds, Stein Fillings of Contact 3-Manifolds.

## Employment

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University of California, Riverside

Visiting Assistant Professor  
2017–present

## Publications, Preprints and Work in Progress

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1. Constructions of new Lefschetz fibrations using cyclic group actions, with Anar Akhmedov (in preparation)
2. Strongly Fillable but not Stein Fillable Contact Structures on 3-manifolds  $-\Sigma(2, 2g + 1, 2(2g + 1)n - 1)$  (in preparation)
3. New Exotic 4-Manifolds via Luttinger Surgery on Lefschetz Fibrations, with Anar Akhmedov, Int. J. Math., 2015, Vol.26(1), pp.179 – 200.

## Awards and Grants

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- NSF Research Fellowship, funded by Anar Akhmedov's NSF grants FRG-0244663
  - Spring 2014,
  - Summer 2012
  - Spring 2012
  - Fall 2011
- TÜBİTAK-2211-National Scholarship Program for PhD Students, 2008-2011

## Invited and Given Talks

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- **New Exotic 4-Manifolds via Luttinger Surgery on Lefschetz Fibrations**
  - Topology Seminar at University of Oregon, Eugene, Oregon, February 27, 2018
  - Topology Seminar at University of Arkansas, Fayetteville, Arkansas, September 8, 2017
  - Differential Geometry and Symplectic Topology Seminar at University of Minnesota, Minneapolis, October 23, 2014.
  - 12th Annual Graduate Student Topology & Geometry Conference at University of Texas at Austin, April 5-6, 2014.
- **Construction of new Lefschetz fibrations using cyclic group actions**
  - 5th Midwest Women in Mathematics Symposium, IUPUI, Indianapolis, February 25, 2017
  - Symplectic Geometry and Contact Geometry, AMS Sectional Meeting at St. Thomas, October 28-30, 2016.
- **Strongly Fillable but not Stein Fillable Contact Structures on 3-manifolds** –  $\Sigma(2, 2g + 1, 2(2g + 1)n - 1)$ 
  - Geometry/Topology Seminar, METU, Department of Mathematics, Ankara, Turkey, May 23, 2016.
  - IMBM, Bogazici University, Department of Mathematics, İstanbul, Turkey, May 18, 2016.
  - Special Session on Low Dimensional and Symplectic Topology at the AMS Sectional Meeting at North Dakota State University in Fargo, North Dakota, April 16-17, 2016.

## Attended and Invited Conferences

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1. Topology in Dimensions 3, 3.5 and 4, UC Berkeley, June 25-29, 2018
2. Workshop on Symplectic four-manifolds through branched coverings, May 14-18, 2018
3. UCLA Topology workshop 2018, UCLA, January 3-5, 2018
4. Tech Topology Conference, Georgia Institute of Technology, Atlanta, GA, December 8-10, 2017
5. 58th Texas Geometry & Topology Conference, University of Texas at Austin, Austin TX, November 17-19, 2017
6. Yamabe Memorial Symposium, Symplectic Geometry and Complex Geometry, University of Minnesota, Minneapolis, September 30-October 2, 2016
7. Topological and Quantitative Aspects of Symplectic Manifolds, A Conference in Honor of Dusa McDuff's 70th Birthday hosted by Columbia University and Barnard College, New York, March 17-20, 2016.
8. 14th Graduate Student Topology and Geometry Conference at Indiana University, Bloomington, Indiana, April 2-3, 2016.
9. 13th Graduate Student Topology and Geometry Conference at the University of Illinois at Urbana-Champaign, Illinois, Chicago, May 28-29, 2015.
10. Yamabe Memorial Symposium, Current Topics in Three-Manifolds, University of Minnesota, Minneapolis, October 17-19, 2014

11. Graduate Workshop on 4-Manifolds, Simons Center for Geometry and Physics, Stony Brook University, Stony Brook, New York, August 18-22, 2014.
12. Workshop and Conference on the Topology and Invariants of Smooth 4-Manifolds, University of Minnesota, Minneapolis, July 31-August 10, 2013.
13. 11th Graduate Student Topology and Geometry Conference at the University of Notre Dame, Indiana, April 6-7, 2013.
14. Yamabe Memorial Symposium, Geometric Analysis, 50th Anniversary, University of Minnesota, Minneapolis, October 5-7, 2012
15. Workshop and Conference on Holomorphic Curves and Low Dimensional Topology, Stanford University, Stanford, California, July 30-August 11, 2012.
16. 15 th, 16th ,17th, 18th, 21th, 23rd Gökova Geometry/Topology Conference, Muğla, Turkey

## Activities

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- o Student Symplectic and Low Dimensional Topology Seminar, University of Minnesota, School of Mathematics, 2014-2017
- o PUTNAM Math Competition Training, UCR, Fall 2018

## Teaching Experience

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### University of California, Riverside

California/USA

*Visiting Assistant Professor:*

2017-present

- o MATH 120, Optimization Techniques, Fall 2018
- o MATH 10B, Calculus of Several Variables II, Fall 2018
- o MATH 195, Undergrad Reading Research Course, Spring 2018
- o MATH 145B, Introduction to Topology, Spring 2018
- o MATH 009B, First-Year Calculus II, Spring 2018
- o MATH 006A, Introduction to College Mathematics for the Sciences, Winter 2018
- o MATH 009B, First-Year Calculus II, Winter 2018
- o MATH 009A, First-Year Calculus I, in Fall 2017

### University of Minnesota

Minnesota/USA

*Instructor*

2011-2017

- o MATH 2243, Linear Algebra and Differential Equations, in Summer 2016
- o MATH 2243, Linear Algebra and Differential Equations, in Summer 2015
- o MATH 1271, Calculus I, in Summer 2013

*Teaching Assistant*

- o MATH 2374, CSE Multivariable Calculus and Vector Analysis, in Spring 2017
- o MATH 2373, CSE Linear Algebra and Differential Equations, in Fall 2016
- o MATH 1031, College Algebra and Probability, in Spring 2016
- o MATH 2373, CSE Linear Algebra and Differential Equations, in Fall 2015
- o MATH 2373, CSE Linear Algebra and Differential Equations, in Spring 2015
- o MATH 2373, CSE Linear Algebra and Differential Equations, in Fall 2014
- o MATH 2374, CSE Multivariable Calculus and Vector Analysis, in Fall 2013
- o MATH 1372, CSE Calculus II, in Spring 2013
- o MATH 1372, CSE Calculus II, in Fall 2012

### Middle East Technical University

Ankara/TURKEY

*Teaching Assistant*

2007-2011

- o Math 120-Calculus of Functions of Several Variables
- o Math 119-Calculus with Analytic Geometry
- o Math 153-Calculus for Mathematics Students I