

# FERIDE CEREN KÖSE

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<https://ferideceren.com/>

## EDUCATION

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<b>The University of Texas at Austin</b> Austin, TX PhD in Mathematics, advised by Cameron McA. Gordon	2016 - current	
<b>Boğaziçi University</b> Istanbul, Turkey MS in Mathematics, advised by Çağrı Karakurt	2014-2016	
<b>Middle East Technical University</b> Ankara, Turkey BS in Mathematics	2012-2014	
	BS in Physics	2009-2013
<b>École Polytechnique</b> Paris, France International Exchange Program	Spring 2012	

## RESEARCH INTERESTS

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**Low-dimensional topology:** Knot Theory, Topology of 3- & 4-manifolds

## PUBLICATIONS

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1. Symmetric unions and reducible surgeries, *In preparation*.
2. On Amphichirality of Symmetric Unions, *Submitted*. [Arxiv link](#)
3. A Short Proof of a Theorem of Tanaka on Composite Knots with Symmetric Union Presentations, *Submitted*. [Arxiv link](#)
4. Braids, Fibered Knots and Concordance Questions (with D. Hubbard, K. Kawamuro, G. Martin, O. Plamenevskaya, K. Raoux, H. Turner & L. Truong), To Appear in *Proceedings Volume of the 2019 Research Collaboration Conference for Women in Symplectic and Contact Geometry and Topology*. [Arxiv link](#)

## HONORS & AWARDS

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Personal Development Award (\$1000), UT Austin	Fall 2021
Department of Mathematics (UT Austin) Summer Fellowship	Summer 2021
University of Texas at Austin Graduate School Fellowship	Summer 2020
TUBITAK (Turkish NSF) Scholarship	2014-2016
Dean's High Honor List at METU	2010-2014
Anadolu Vakfi Undergraduate Scholarship	2009-2014
Government of Turkey Undergraduate Scholarship	2009-2014

## SEMINAR TALKS

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Geometry-Topology Seminar, Duke University	November 2021
Topology Seminar, Rice University	October 2021
Geometry Topology Seminar, GeorgiaTech	October 2021
Topology Seminar, Brandeis University	November 2020
Geometry & Topology Seminar, Boğaziçi University	July 2018

## INVITED CONFERENCE TALKS

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“4-manifolds: from above and below”, CIRM Luminy, France	September 2022
“Knots, links, 3-manifolds, . . . & 4-manifolds”, AMS Special Session, JMM, Seattle WA	January 2022
“Knot Theory in dimension four”, AMS Special Session, JMM, Seattle WA	January 2022
“Women and Gender Minorities in Symplectic and Contact Geometry and Topology”, AWM Special Session, JMM, Seattle WA	January 2022
“Topology and Geometry of 3- and 4-Manifolds”, AMS Southeastern Sectional Meeting, Georgia Tech	March 2021

## RESEARCH ACTIVITIES

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4-dimensional topology, AIM Research Community, Online	Spring 2021
Women in Symplectic and Contact Geometry and Topology workshop at ICERM	July 2019
Perspectives on Dehn Surgery workshop at ICERM	July 2019
MSRI Summer School on h-principles at Tambara Institute, Tokyo, Japan	July 2018
REU on Mapping Class Groups at MPIM, Bonn, Germany	Summer 2013

## OUTREACH & SERVICE

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<b>Head organizer</b> Distinguished Women in Mathematics (DWM) Lecture Series <i>This series was established in 2007 by Karen Uhlenbeck’s chair funds and by the department’s lecture funds. The series brings leading women mathematicians to the department and is run entirely by graduate students.</i>	2021 - current
<b>Co-organizer</b> “the L-space conjecture” learning seminar	Fall 2021
<b>Co-founder</b> DRP Turkey <i>The Directed Reading Program (DRP) Turkey is an independent, online project run by volunteer graduate students. The program pairs undergraduate students studying mathematics at universities in Turkey with graduate students studying at institutions around the world to work together on selected books or articles in mathematics.</i>	2021 - current
<b>Lead instructor</b> Algebraic Topology Prelim Bootcamp at UT Austin	Summers 2020 & 2021
<b>Co-organizer</b> “Current Events Seminar” as a part of AIM Research Community	Spring 2021
<b>Co-organizer</b> “Kirby calculus and 4-manifolds” mini-course	Summer 2020
<b>Co-organizer</b> “3-manifolds and Heegaard splittings” mini-course	Summer 2020
<b>Organizer</b> “Junior Topology Seminar” at UT Austin	Spring 2020
<b>Co-organizer</b> “Applications of Heegaard Floer homology” learning seminar	Fall 2019
<b>Co-organizer</b> “Dehn surgery and 3-manifolds” mini-course	Summer 2019
<b>Co-organizer</b> “Khovanov homology and knot concordance” learning seminar	Spring 2019
<b>Organizer</b> DWM Lecture Series at UT Austin	2017 - 2021
<b>Mentor</b> DRP at UT Austin <i>I gave guidance to undergraduate students reading topics in algebraic and geometric topology, knot theory, and graph theory.</i>	2017 - current
<b>Contributer</b> IMAGINARY Turkey <i>IMAGINARY Turkey was a product of a collaboration between Mathematisches Forschungsinstitut Oberwolfach, Turkish Mathematical Society, and Istanbul Center for Mathematical Sciences during the German-Turkish Year of Science 2014. I helped manage and provide content for their social media accounts and acted as tour guide for interactive exhibitions.</i>	2014-2016

## TEACHING

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<b>University of Texas at Austin</b> , Department of Mathematics TA for differential & multivariable calculus Grader for Algebraic Topology and Topology II (Knots and Links)	2016 - current
<b>Boğaziçi University</b> , Department of Mathematics Istanbul, Turkey TA for differential & multivariable calculus, linear algebra, differential equations, real analysis	2014 - 2016
<b>Çankaya University</b> , Faculty of Engineering Ankara, Turkey TA for General Physics for Engineering	2013 - 2014
<b>METU</b> , Department of Physics Ankara, Turkey Undergraduate Assistant for Mathematical Methods for Physicists	2012 - 2013