

Üstün Yıldırım¹

University of Rochester
Department of Mathematics
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Education

2012-2018	Michigan State University, USA Ph.D. Mathematics Advisor: Selman Akbulut Thesis title: <i>Cayley Grassmannian and Deformations in Complex G_2 Manifolds</i> Research interests: G_2 and Spin(7) manifolds, low dimensional topology
2007-2012	Middle East Technical University, Turkey B.S., Mathematics
2007-2012	B.S., Computer Engineering

Academic Appointments

Fall 2018 - (current)	University of Rochester Visiting Assistant Professor
Spring 2016 - Spring 2018	Michigan State University Research Assistant
Fall 2012 - Spring 2018	Teaching Assistant
Fall 2014 - Fall 2016	Math Learning Center Lead TA
Fall 2015	Mentoring Leader at the Center for Instructional Mentoring
Spring 2011, Fall 2011	Middle East Technical University Undergraduate Teaching Assistant

¹as of February 11, 2019

Honors and Awards

Summer 2018	Dissertation Completion Fellowship Department of Mathematics, Michigan State University
Spring 2016	Excellence in Teaching Award Department of Mathematics, Michigan State University
Fall 2014	Herbert T. Graham Scholarship Department of Mathematics, Michigan State University

Preprints

2. Selman Akbulut and Ustun Yildirim. Complex G_2 manifolds. *arXiv preprint arXiv:1804.09951*, 2018
1. Üstün Yıldırım. On the minimal compactification of the Cayley Grassmannian. *arXiv preprint arXiv:1711.05169*, 2017

Talks

	Geometry Seminar, University of Rochester
Sep 10, 2018	<i>Complex G_2 manifolds</i>
Sep 17, 2018	<i>Complex G_2 manifolds II</i>
	Gökova Geometry Topology Conference 2018
May 28, 2018	<i>Complex G_2 manifolds and deformations of associative submanifolds</i>
	AMS Sectional Meeting, Northeastern University
Apr 22, 2018	<i>On the minimal compactification of the Cayley Grassmannian</i>
	GSTGC 2018, University of Illinois at Chicago
Apr 7, 2018	<i>Associative and Cayley Grassmannian</i>
	Algebra Seminar, Tulane University
Dec 7, 2017	<i>Cayley Grassmannian</i>
	Topology Seminar, MSU
Nov 20, 2017	<i>On the minimal compactification of the Cayley Grassmannian</i>
	Student Geometry and Topology Seminar, MSU
Fall 2017	<i>Complexified Cayley Grassmannian</i>
Spring 2017	<i>Conformal split G_2 holonomy</i>
Fall 2016	<i>The Automorphism Group of the Octonions and Associated Geometrical Structures</i>
Fall 2015	<i>G_2 manifolds and Joyce's construction of compact examples</i>
Spring 2015	<i>Principal bundles and G-structures</i>
Spring 2014	<i>Gluck twisting 4-manifolds with odd intersection form</i>

Teaching Experience

	University of Rochester
Spring 2019	MTH 142 Calculus II
Spring 2019	MTH 165 Linear Algebra with Differential Equations
Fall 2018	MTH 165 Linear Algebra with Differential Equations
Fall 2018	MTH 235 Linear Algebra
	Michigan State University
Spring 2017, Fall 2017	MTH 235 Differential Equations (recitation)
Fall 2015	MTH 132 Calculus I
Summer 2015	MTH 234 Multivariable Calculus
Fall 2014, Spring 2015	MTH 124 Survey of Calculus
Fall 2013, Spring 2014	MTH 124 Survey of Calculus
Fall 2012, Spring 2013	MTH 133 Calculus II (recitation)
As part of being an MLC lead TA:	
Fall 2014, Spring 2015	Lead common review sessions for all MTH 124 sections
Fall 2015, Spring 2016, Fall 2016	Lead common review sessions for all MTH 132 sections

Service

- Served as a referee for the Proceedings of Gökova Geometry/Topology (GGT)
- Serving as an editor for the Journal of GGT and Proceedings of GGT
- Scientific staff at the GGT Institute
- Created and maintaining the website of the GGT Institute
- Co-organized Graduate Student Topology and Geometry Conference 2017
- Co-typeset “Notes on Algebraic Topology” by Selman Akbulut

Skills and Languages

- C, C++, Haskell, Java, Latex, Python, Sage, JavaScript, PHP, MySQL
- English (advanced), German (beginner), Turkish (native)

References

Selman Akbulut (Advisor)
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