

CURRICULUM VITAE

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PERSONAL INFORMATION

- **Date of Birth** : November 14 , 1978.
- **Citizenship** : Turkish.

EDUCATION

- **2007** : *Ph.D. in Mathematics (Geometry)*. Stony Brook University, USA.
Supervised by Professor Claude LeBrun.
- **2000** : *B.Sc. in Mathematics*. Middle East Technical University, Türkiye.
Completing the 4 year Undergraduate Program successfully in 3.5 years.
- **1996** : *Diploma*. İzmir Science High School, Türkiye. Science High School admits 96 students each year, chosen among the top 100 scoring students on a nationwide exam given by the Government.

APPOINTMENTS

- **2007-Current** : *Van-Vleck Assistant Professor of Mathematics*.
University of Wisconsin at Madison, WI, USA.
- **2000-07** : *Teaching and Research Assistant*.
Stony Brook University, New York, USA.
- **2000** : *Teaching Assistant*.
Middle East Technical University, Ankara, Türkiye.

VISITING POSITIONS

- **August 2008** : *Visiting Researcher*.
Institut des Hautes Études Scientifiques (IHÉS), Bures-Sur-Yvette, France.
- **June 2007** : *Visiting Researcher*.
Feza Gürsey Institute (FGE), İstanbul, Türkiye.

RESEARCH INTERESTS

- Differential Geometry of 4-Manifolds , Complex Algebraic Geometry.
- *In particular* : Self-dual metrics on 4-manifolds , Kähler Manifolds , Geometric Invariant Theory for Toric Varieties , Twistor Theory, General Relativity.

PUBLICATIONS & PREPRINTS

1. *Self-Dual metrics on 4-manifolds*,
Ph.D. Thesis, Stony Brook University, 2007.
2. *Scalar Curvature and Connected Sums Of Self-Dual 4-Manifolds*,
Journal of the European Mathematical Society, 2009.
3. *Deformations of Scalar-Flat Anti-Self-Dual metrics and Quotients of Enriques Surfaces*,
Proceedings of the 13th Gökova Geometry-Topology Conference pp.106-122,
S. Akbulut, T. Önder and R.J. Stern Editors, International Press, Boston MA 2007.
4. *Geometric Invariant Theory and Einstein-Weyl Geometry*,
Accepted for publication in *Expositiones Mathematicae*.
5. *Topology of Non-simply connected Locally Conformally Flat(LCF) 4-Manifolds (with S. Akbulut)*,
Submitted, available at ArXiv math.DG/0807.0837.
6. *Hyperkähler manifolds with circle actions and the Gibbons-Hawking Ansatz (with J. Sawon)*,
available at ArXiv:0910.0672.
7. *Topology of Cayley Free Submanifolds of \mathbb{R}^8 (with İ. Ünal)*,
Currently in preparation.

TALKS GIVEN

- The Jones Polynomial of a Knot, Stony Brook Graduate Student Seminar. Spring-01
- Stein Manifolds and Exotic Structures on \mathbb{R}^4 , Stony Brook Graduate Student Seminar. 13-Dec-02
- Contact Geometry and the Classification of Legendrian/Transversal Knots, a Survey, Middle East Technical University Türkiye, Geometry-Topology Seminar. 22-May-02
- Scalar Flat Kähler Manifolds, StonyBrook Graduate Student Seminar. 03-Mar-04
- Self Dual Riemannian 4-Manifolds and Their Twistor Spaces, Middle East Technical University Türkiye, Geometry-Topology Seminar. 27-Dec-04
- Twistor Spaces of Connected Sum of Projective Planes, Northeastern University Mathematics Department Boston MA , Graduate Seminar. 22-Mar-05
- Scalar Curvature and Connected Sums Of Self-Dual 4-Manifolds, International Conference on Global Differential Geometry, Münster, Germany. 18-Aug-06
- ODTÜ-Bilkent Algebraic Geometry Seminar, ODTÜ, Ankara. 29-Dec-07
- Michigan State University, Topology Seminar. 02-Apr-07
- Two Lectures on Self-Dual 4-Manifolds, Feza Gürsey Institute, İstanbul. Jun-07
- Connected Sums Of Self-Dual 4-Manifolds, University of Wisconsin at Madison, Geometry-Topology Seminar. 07-Sep-07
- Topology of Non-simply connected Locally Conformally Flat 4-Manifolds, Gökova Geometry-Topology Conference, Turkey. 29-May-08
- University of Wisconsin at Madison, Geometry-Topology Seminar. 31-Oct-08
- Colorado State University, Geometry-Topology Seminar. 09-Jan-09
- University of Wisconsin at Madison, Geometry-Topology Seminar. 27-Mar-09
- Michigan State University, Topology Seminar. 13-Apr-09
- Hyperkähler manifolds with circle actions and the Gibbons-Hawking Ansatz Michigan State University, Topology Seminar. 09-Apr-09

- Algebra Days, Antalya, Turkey. 23-May-09
- Gökova Geometry-Topology Conference, Turkey. 26-May-09
- University of Rochester, Geometry-Topology Seminar. 6-Nov-09

CONFERENCES AND WORKSHOPS

- Around Dynamics, Conference in Honor of the 70th Birthday of John Milnor, Stony Brook. Mar-01
- Summer School , SMI , Perugia-Italy. Aug-01
- Ahlfors-Bers Colloquium , University of Connecticut at Storrs. Oct-01
- Holomorphic Curves and Low Dimensional Topology, IAS, Princeton. Mar-02
- Gökova Geometry-Topology Conferences, Turkey. May-02-09
- Einstein Chair Conference in honor of Dennis Sullivan,CUNY Graduate Center NY. 20-21 Sep-02
- Current Developments in Mathematics, Harvard University, Boston. 15-17 Nov-02
- AMS Meeting at Courant Institute NY, Special Session on Contact and Symplectic Geometry. Apr-03
- Ricci Flow and the Geometrization of 3-Manifolds, Simons Lectures by Grigory Perelman, SUNY - Stony Brook NY. 21 Apr 02 May-03
- Summer School on Kahler Geometry and Symmetric Spaces, SMI , Cortona-Italy. 15-30 Aug-04
- Summer School on Arithmetic and Geometry Around Hypergeometric Functions, Galatasaray University, İstanbul. 13-25 Jun-05
- Conference in Honor of the 60th Birthday of John Morgan, Columbia University. 30-5 Apr-May-06
- Conference on Global Differential Geometry, Münster, Germany. 14-19 Aug-06
- Geometry Conference in honor of the 60th Birthday of Nigel Hitchin, Madrid. 4-8 Sep-06
- Western Algebraic Geometry Seminar(WAGS), Colorado State University. 20-21 Oct-07
- 23rd Annual Geometry Festival, Duke University, Durham, NC. 25-27 Apr-08
- The 7th conference on Geometry and Topology, Harvard University, Cambridge, MA. 2-4 May-08
- Nemmers Lectures by Simon Donaldson, Northwestern University, Chicago. Oct-08
- 24th Annual Geometry Festival in memory of Detlef Gromoll, Stony Brook, NY. 17-19 Apr-09
- Complex Geometry Conference Honoring Simon Donaldson, Northwestern University. 24-27 Oct-09
- Workshop on General Relativity. Simons Center. Stony Brook, NY. 16-20 Nov-09

SYNERGISTIC ACTIVITIES

- Organized the Geometry & Topology Seminar of UW-Madison. 2008-09
- Refereeing to anonymous journals.
- Turkish Nationwide Mathematics Competition of High Schools , organizing committee. Head of the problem preparation committee. 1997
- METU Mathematics Society, Council of administration prime member, Vice Chair in 98. 1996-98

TEACHING EXPERIENCE

UW MADISON

- MAT 551 *Elementary Topology (Point Set Topology)*. Fall 2007-08
- MAT 340 *Linear Algebra*, 2 Lectures. Spring 2008-10
- MAT 211 *Calculus (Differential and Integral Calculus, Multivariable Calculus)*. Fall 2007-08
- MAT 541 *Modern Algebra (Abstract)*. Spring 2009
- MAT 319 *Ordinary Differential Equations*. Fall 2009
- MAT 441 *Introduction to Modern Algebra (Abstract)*. Fall 2009
- MAT 561 *Differential Geometry*. Spring 2010

STONY BROOK UNIVERSITY (SELECTED)

- MAT 203 *Multivariable Calculus*. Instructor, Coordinator. Fall 2004
- MAT 211 *Linear Algebra*. Instructor, Coordinator. Spring 2005
- MAT 518 *Seminar on the Uses of Mathematics (Algorithms & Data Structures)*. A Graduate course for Secondary School Teachers. Instructor, Coordinator, Course designer. Summer 2005
- MAT 132 *Calculus II, Integral Calculus & ODE*. Instructor, Coordinator. Summer 2006
- MAT 126 *Calculus B, Integral Calculus*. Instructor. Fall 2006

AWARDS & ACHIEVEMENTS

- Awarded by distinction due to the success in the Mathematics Competition of İSHS. 1993
- METU, ÜRGÜP Summer Schools of Informatics-Computer Olympiads. TÜBİTAK. 1994,95
- Most successfully entering student to the Department of Mathematics , METU. 1996
- TÜBİTAK Turkish Science and Research Council Fellowship for 4 Years of Undergraduate Studies. 1996
- Most successful student of the Term : Fall 96, Spring 98, Fall 98.
- Honor Degrees : Fall 96, Spring 97, Fall 97, Spring 98, Fall 98, Fall 99.
- Van-Vleck Assistant Professorship of 3 years. University of Wisconsin at Madison, WI. 2007
- University Honored Instructors Award, Madison, WI. 29-Apr-09

COMPUTERS

- *Pascal* and *C* Programming at advanced level.
- *Unix* and *Latex* knowledge at advanced level.
- Basic *HTML* knowledge.

MEMBERSHIPS

- American Mathematical Society.
- Turkish American Scientists and Scholars Association (TASSA).