

# Emre Coskun

M-218, Department of Mathematics  
Middle East Technical University  
06800 Ankara, TURKEY  
Languages: English (fluent), French (DALF C1)

Office: (+90-312) 210 5394  
Email: [emcoskun@metu.edu.tr](mailto:emcoskun@metu.edu.tr)  
Homepage: <http://users.metu.edu.tr/emcoskun/>

## Academic Experience

Associate Professor, Department of Mathematics, Middle East Technical University, September 2017–present.

Assistant Professor, Department of Mathematics, Middle East Technical University, January 2013–September 2017.

Visiting Researcher (supported by TUBITAK scholarship 2232), Department of Mathematics, Middle East Technical University, August 2012–December 2012.

Visitor, Institut de Hautes Études Scientifiques, April 2012–May 2012.

Visiting Fellow, School of Mathematics, Tata Institute of Fundamental Research, September 2011–February 2012.

Postdoctoral Fellow and Assistant Professor, Department of Mathematics, University of Western Ontario, 2009–2011.

Teaching Assistant, Graduate Student and Supervisor of the Mathematics Learning Center (intermittent), Department of Mathematics, Michigan State University, 2002–2009.

Teaching Assistant and Graduate Student, Department of Mathematics, Middle East Technical University, 2000–2002.

## Research Interests

Moduli spaces of vector bundles and related problems, Ulrich bundles on projective varieties.

## Publications

1. E. Coskun, Ulrich bundles and quiver representations, submitted.
2. E. Coskun and O. Genc, Ulrich trichotomy on del Pezzo surfaces, *Adv. Geom.* **23** (2023), no. 1, 51–68.
3. G. Casnati, E. Coskun, O. Genc and F. Malaspina, Instanton bundles on the blow up of the projective 3-space at a point, *Michigan Math. J.* **70** (2021), no. 4, 807–836.
4. E. Coskun, A survey of Ulrich bundles, *Proceedings of Discussion Meeting on Algebraic and Analytic Geometry Related to Bundles Held in Mumbai, March 2015*, edited by Anilatmaja Aryasomayajula, Indranil Biswas, Archana S. Morye and A.J. Parameswaran, 85–106.
5. E. Coskun and O. Genc, Ulrich bundles on Veronese surfaces, *Proc. Amer. Math. Soc.* **145** (2017), no. 11, 4687–4701.

6. I. Biswas, E. Coskun and A. Dhillon, The period-index problem of the canonical gerbe of symplectic and orthogonal bundles, *J. Alg.* **446** (2016), 400–425.
7. E. Coskun, Ulrich bundles on quartic surfaces with Picard number 1, *C. R. Acad. Sci. Paris, Ser. I* **351** (2013), 221–224.
8. E. Coskun, R. S. Kulkarni and Y. Mustopa, The geometry of Ulrich bundles on del Pezzo surfaces, *J. Alg.* **375** (2013), 280–301.
9. E. Coskun, R. S. Kulkarni and Y. Mustopa, Pfaffian quartic surfaces and representations of Clifford algebras, *Doc. Math.* **17** (2012), 1003–1028.
10. E. Coskun, R. S. Kulkarni and Y. Mustopa, On representations of Clifford algebras of ternary cubic forms, *New trends in noncommutative algebra, Contemp. Math.* **562** (2012), 91–99.
11. E. Coskun, The fine moduli space of representations of Clifford algebras, *Int. Math. Res. Not.* **15** (2011), 3524–3559.
12. E. Coskun, A. Dhillon and N. Lemire, On Nori’s obstruction to universal bundles, *J. Ramanujan Math. Soc.* **25** (2010), no. 4, 359–376.

## Education

Ph.D. Mathematics, Michigan State University, 2009.

M.S. Mathematics, Middle East Technical University, 2002.

B.S. Electrical and Electronics Engineering, Middle East Technical University, 2000.

## Service

Refereed for: American Journal of Mathematics, Annali di Matematica Pura ed Applicata, Bulletin of the Korean Mathematical Society, Communications in Algebra, Contributions to Algebra and Geometry, Geometriae Dedicata, International Mathematics Research Notices, Journal of the Australian Mathematical Society, Journal of Pure and Applied Algebra, Mathematische Nachrichten.

Reviewer for Zentralblatt MATH and Mathematical Reviews of the American Mathematical Society.

## Seminar Talks

**Middle East Technical University**, November 2022.

**Middle East Technical University**, October 2022.

**Middle East Technical University**, December 2021.

**Middle East Technical University**, April 2020.

**Bilkent University**, March 2020.

**Bilkent University**, February 2020.

**Politecnico di Torino**, February 2019.

Bilkent University, November 2018.  
Middle East Technical University, November 2018.  
Bilkent University, November 2018.  
Bilkent University, March 2017.  
Bilkent University, October 2014.  
Middle East Technical University, October 2014.  
Bilkent University, October 2014.  
Bilkent University, May 2014.  
Bilkent University, April 2014.  
Bilkent University, April 2013.  
Middle East Technical University, April 2013.  
Middle East Technical University, December 2012.  
Atilim University, March 2012.  
Middle East Technical University, March 2012.  
Bilkent University, March 2012.  
Istanbul Bilgi University, March 2012.  
Mimar Sinan University of Fine Arts, March 2012.  
Tata Institute of Fundamental Research, December 2011.  
Tata Institute of Fundamental Research, November 2011.  
Tata Institute of Fundamental Research, October 2011.  
Chennai Mathematical Institute, September 2011.  
Dokuz Eylül University, July 2011.  
University of Michigan Algebraic Geometry Seminar, November 2010.  
Michigan State University Algebra Seminar, October 2010.  
University of Western Ontario Stacks Learning Seminar, April 2010. (*two talks*)  
University of British Columbia Algebraic Groups Seminar, March 2010.  
University of Western Ontario Pizza Seminar, December 2009.  
University of Western Ontario Algebra Seminar, September 2009.  
University of Western Ontario Algebra Seminar, February 2009.  
Indiana University Algebra Seminar, November 2008.  
Michigan State University Algebra Seminar, October 2008.

## Conference Organization

ACM Bundles on Algebraic Varieties; June 15–19, 2015; Middle East Technical University, Ankara, Turkey.

Bandoleros 2022; May 11–13, 2022; Middle East Technical University, Ankara, Turkey.

## Conference Talks

**Carry-le-Rouet, FRANCE**, Mediterranean Complex Projective Geometry, May 2016.

**Nesin Mathematics Village, Şirince, TURKEY**, XVIII. Antalya Algebra Days, May 2016.

**Tata Institute of Fundamental Research, Mumbai, INDIA**, Discussion Meeting on Algebraic and Analytic Geometry Related to Bundles, March 2015.

**Dicle University, Diyarbakır, TURKEY**, XXVI. National Mathematics Symposium, September 2013.

**Nesin Mathematics Village, Şirince, TURKEY**, XV. Antalya Algebra Days, May 2013.

**University of Ottawa, Ottawa, Ontario, CANADA**, Ottawa Mathematics Conference 2011, May 2011.

**Perimeter Institute, Waterloo, Ontario, CANADA**, Connections in Geometry and Physics 2010, May 2010.

**AMS Sectional Meeting, Lexington, KY** Special Session on Noncommutative Algebraic Geometry, March 2010.

## Grants and Awards

TUBITAK grant 1001 (project no. 119F024), August 2019–July 2022.

Middle East Technical University Young Researcher Award, 2014.

TUBITAK grant 3501 (project no. 114F116), October 2014–September 2017.

BAP grant (project no. BAP-01-01-2014-001, Middle East Technical University), January 2014–December 2016.

TUBITAK scholarship 2232, August 2012–July 2014.

Herbert T. Graham Scholarship, 2008. "The Herbert T. Graham Scholarship Fund was established to support high ability students majoring in Chemistry, Mathematics or Physics who are juniors or above with demonstrated financial need."