Olcay Coşkun http://www.math.boun.edu.tr/instructors/olcay.coskun

EDUCATION	
• Bilkent University PhD - Mathematics	Ankara, Turkey 2004 - 2008
Advisor: Laurence J. Barker Thesis: A correspondence of simple alcahestic group functors.	
• Bilkent University • M.S Mathematics	Ankara, Turkey 2002 - 2004
Advisor: Laurence J. Barker Thesis: Modular representations and monomial Burnside rings	
• Bilkent University B.S Mathematics	Ankara, Turkey 1997 - 2002
Advisor: Laurence J. Barker Thesis: Weil representations of $SL(2, \mathbb{Z}/n)$ and $SL(2, \mathbb{Z}_p)$.	
ACADEMIC POSITIONS	
• Boğaziçi University • Full Professor	İstanbul, Turkey 2017 - today
• Boğaziçi University • Associate Professor	İstanbul, Turkey 2012 - 2017
• Boğaziçi University Assistant Professor	İstanbul, Turkey 2009 - 2012
• Bilkent University Instructor	Ankara, Turkey 2008 - Autumn
Administrative Positions	
• Department of Mathematics, Boğaziçi University Chair	İstanbul, Turkey July 15, 2022 - today
• Matematik Dünyası - Popular math magazine • Editor	İstanbul, Turkey 2021 - today
• TMD - Turkish Mathematical Society • Vice-president	İstanbul, Turkey 2021 - today
• IMBM - Istanbul Center for Mathematical Sciences • Codirector	İstanbul, Turkey 2019 - 2022
Feza Gürsey Center for Mathematics and Physics • Vice chair RESEARCH VISITS	İstanbul, Turkey 2015 - 2018
University of California at Santa Cruz	Santa Cruz, CA, USA
• Fulbright Scholar, Funded partially by TÜBİTAK	August 2018 - July 2019
• MSRI (Mathematical Sciences Reseach Institute) • Research Associate	Berkeley, CA, USA January - April 2008
at "Representation theory of finite groups and related topics" supported by $T\ddot{U}B\dot{I}TA$	AK
• University of California at Santa Cruz • Junior Specialist	Santa Cruz, CA, USA September 2006 - June 2007
Research under supervision of Robert Boltje supported by TÜBİTAK	
Honors and Awards	
• TÜBİTAK 2219 - Research Fellowship for Abroad Study, March 2019 – August 2019)
• Fulbright Foundation Academic Research Fellowship, August 2018 – March 2019	
• Bilim Akademisi (Science Academy of Turkey) Young Scientist Award Program (BA	GEP), 2017
 Türk Matematik Vakfı (Turkish Mathematical Foundation) Masatoshi Gündüz İkeda Boğaziçi University Foundation Academic Encouragement Award, 2009, 2010, 2011, 	
award, discontinued after 2016. • TÜBİTAK Research Fellowship for Abroad Study, 2008	
 TÜBİTAK Research Fellowship, 2006 – 2008 	
 TÜBİTAK Research Fellowship for Abroad Study, 2006 – 2007 	

- Bilkent University Department of Mathematics Alişbah Fellowship, 2005
- TÜBİTAK Research Fellowship, 2005 2006
- Bilkent University Merit Scholarship, 1997 2008. (Scholarship for BS, MS and PhD).

- TÜBİTAK Research Grant (1001-119F422) 2020 2023: Classification of simple modules over Green biset functors (Principal Researcher); Ruslan Muslumov (Ph.D.), Doğa Ulaş Budak (M.S.), Mustafa Akdağ (M.S.), İbrahim Aslan (M.S.) and Mehmet Arslan (Post-doc) were/are fully supported.
- TÜBİTAK Research Grant (1002-117F291) 2018-2019: Alroran Izleçlerinin Basit Modüllerinin Sınıflandırılması (Principal Researcher)
- Boğaziçi University Research Grant (11144) 2015-2017: Dade group of Mackey functors for *p*-groups (Principal Researcher)
- TÜBİTAK Research Grant (1001-115F156) 2015-2018: Tower Tableaux and Schubert Polynomials (Researcher); Mustafa Türköz (M.S.) and Gözde Sert (M.S.) were fully supported.
- TÜBİTAK Research Grant (1001-113F240) 2014-2017: Fibered biset functor structure of the character rings (Principal Researcher); Mehmet Arslan (Ph.D.), Deniz Yılmaz (M.S.), Irmak Balçık (M.S.), Ruslan Muslumov(M.S.) were fully supported.
- Boğaziçi University Research Grant (7623) 2013-2015: Gerçel Karakter halkasının yapısı (Principal Researcher)
- TÜBİTAK Career Research Grant (1001-109T661) 2010-2013: Representations of finite groups of Lie type (Principal Researcher); Zehra Bilgin (M.S.) was fully supported.
- Boğaziçi University Research Grant (6029) 2011-2013: Reduced words of permutations (Researcher)

Research Interests

Mackey functors, (fibered) biset functors and category algebras, Green biset functors, block theory, fusion systems, homological algebra.

TEACHING EXPERIENCE - SELECTED COURSES

- Undergraduate Courses:: Calculus I and II (for engineering faculty students), Abstract Mathematics, Algebra I (Group Theory), Algebra II (Rings, Fields and Galois Theory), Matrix Theory (a linear algebra course for engineering faculty), Linear Algebra, Introduction to Set Theory, Groups and Geometries, Topics in Group Theory, Combinatorial Representation Theory, Representation Theory of Finite Groups
- Graduate Courses:: Algebra I (Groups, rings and modules), Algebra II (ring extensions, filed extensions and Galois Theory), Schubert Calculus, Finite group representations, Axiomatic representation theory, Modular representation theory I and II, Category Theory, Homological Algebra, Advanced group theory

GRADUATE STUDENTS - POST-DOC ADVISING

• Post-Doc Advising:

- Cihan Bahran: (2022-2023)
- Mehmet Arslan: (2020-2021)
- PhD Students:
 - Ruslan Muslumov: (2022) Simple functors over section Burnside rings
 - Mert Seviniş: (2019) The fibered Burnside ring of a fusion system
 - Mehmet Arslan: (2018) Composition factors of the functor of complex characters
- MS Students:
 - İbrahim Aslan: (2023) Expected
 - Mustafa Akdağ: (2023) Expected
 - Said Yılmaz: (2022) Expected
 - Doğa Ulaş Budak: (2021) Relative endo-trivial modules
 - Ebru Beyza Küçük: (2019) Complex Representations of GL(2,q)
 - Ayçin İplikçi: (2019) Mackey functors over fusion systems
 - Turan Karakurt: (2018) Modular Representations of GL(2, p)
 - Gözde Sert: (2018) A survey on endotrivial modules over p-groups
 - Ruslan Muslumov: (2017) The Green functor of the character ring of finite groups
 - Mustafa Türköz: (2017) Co-Advisor, a Physics thesis
 - $\circ~$ Irmak Balçık: (2016) On simple modules over the section Burnside functor
 - $\circ~$ Deniz Yılmaz: (2015) The fibered p-biset functor of the fibered Burnside ring
 - $\circ~$ Zehra Bilgin: (2012) On quotients of Hom-functors, co-Advisor with Arzu Boysal

Administrative Duities

- Professor representative in the faculty board: 2021-2022
- Vice chair of the Department of Mathematics.: 2019-2022
- Member graduate assistant admissions committee. (of three members): 2013-today
- Member Ph.D. qualifying exam committee.: 2013-today
- Member academic advising committee
- (Center for Teaching and Learning (CeTeLe)). (of 15 members): 2017-today
- Graduate advisor.: 2019-2022
- Member graduate admissions committee. (of five members): 2019-2022
- Academic advisor for undergraduates (class of 2011): 2011-2021
- Member Faculty of Arts and Sciences Dean election committee. (of four members): 2022
- Member hiring committee. (of four members): 2019-2020
- Member graduate curriculum revision committee. (of five members): 2017-2018
- Member hiring committee. (of three members): 2017-2018
- Vice chair of the Department of Mathematics.: 2016-2017
- Graduate advisor.: 2016-2017
- Member colloquium committee. (of two members): 2015-2017
- Member ug curriculum revision committee. (of five members): 2015-2016
- Member graduate admissions committee. (of five members): 2012-2017
- **PROFESSIONAL DUITIES**
- Member of the Algebra Panel TÜBİTAK-ARDEP: 2012-today
- Member of Research Fellowship Evaluation Panel TÜBİTAK-BİDEP: 2012-today
- Referee for some math journals:

PUBLICATIONS

- O. Coşkun, M. Seviniş: The fibered Burnside ring of a fusion system, Int. Journal of Algebra and Comp. 31 (03) (2021), 453 - 470
- 2. M. Arslan, O. Coşkun: The functor of complex characters of finite groups, Journal of Algebra 562 (2020), 115-147.
- 3. O. Coşkun, E. Yalçın: Obstructions for gluing biset functors, Journal of Algebra 532 (2019), 268-310.
- O. Coşkun, D. Yılmaz: Fibered p-biset functor structure of fibered Burnside rings, Algebras and Representation Theory 22 (2019), 21-41.
- 5. R. Boltje, O. Coşkun: Fibered biset functors, Advances in Mathematics 339 (2018), 540-598.
- 6. O. Coşkun, M. Taşkın: Tower diagrams and Pieri's Rule, Discrete Mathematics 341 (2018), 3089-3105.
- 7. O. Coşkun: The Dade group of Mackey functors for p-groups, Journal of Algebra 470 (2017), 172-196.
- 8. O. Coşkun: *Inducing native Mackey functors to biset functors*, Journal of Pure and Applied Algebra 219 (2015), 2359-2380.
- 9. O. Coşkun, M. Taşkın: Sorting and generating reduced words, Archiv der Mathematik 101 (2013), 427-436.
- O. Coşkun, M. Taşkın: Tower tableaux and Schubert polynomials, Journal of Combinatorial Theory Series A 120 (2013), 1976-1995.
- 11. O. Coşkun, M. Taşkın: Tower Tableaux, Journal of Combinatorial Theory Series A 120 (2013), 843-871.
- 12. O. Coşkun: *Gluing Borel-Smith functions and the group of endo-trivial modules*, Bulletin of the London Mathematical Society 43 (2011), 912-926.
- O. Coşkun, S. Pamuk: Projective resolutions of globally defined Mackey functors in characteristic zero, Archiv der Mathematik 96 (2011), 39-48.
- 14. O. Coşkun: Ring of subquotients of a finite group II: Pure bisets, Journal of Algebra 324 (2010), 706-731.
- 15. O. Coşkun: Ring of Subquotients of a finite group I: Linearization, Journal of Algebra 322 (2009), 2773 2792.
- O. Coşkun, E. Yalçın: A Tate cohomology sequence for generalized Burnside rings, Journal of Pure and Applied Algebra 213 (2009), 1306 - 1315.
- O. Coşkun: Alcahestic subalgebras of the alchemic algebra and a correspondence of simple modules, Journal of Algebra 320 (2008), 2422 - 2450.
- O. Coşkun: Mackey functors, induction from restriction functors and coinduction from transfer functors, Journal of Algebra 315 (2007), 224 - 248.

Preprints

- 1. R. Boltje, O. Coşkun and Ç. Karagüzel: The functor of trivial source modules.
- 2. O. Coşkun, R. Muslumov: Simple section biset functors.

POPULAR ARTICLES

As the editor in chief of the journal of Matematik Dünyası, it is part of my duty to write popular articles (each refereed). This is why I have many of them in a short period.

- 1. Başarının iki yüzü, Matematik Dünyası, 113 (2022) 14 15.
- 2. Galois grupları, Matematik Dünyası, 112 (2022) 17 24.
- 3. Rubik küp grubu, Matematik Dünyası, 112 (2022) 50 59.
- 4. Asal Portreler, Matematik Dünyası, 111 (2021) 10 13.
- 5. Unutulmuş bir problem: Feit-Thompson sanısı, Matematik Dünyası, 111 (2021) 76 78