

# Deniz Yılmaz

---

## CONTACT INFORMATION

University of California Santa Cruz  
Department of Mathematics  
1156 High Street  
Santa Cruz, CA, 95060 USA

+90 (537) 937-2053  
deyilmaz@ucsc.edu

## RESEARCH INTERESTS

Representation Theory of Finite Groups

## EDUCATION

### University of California Santa Cruz

Ph.D. Mathematics, 2015-Present  
Advanced to Candidacy

- Advisor: Robert Boltje
- Email: boltje@ucsc.edu

### Université de Picardie Jules Verne

Visitor as Chateaubriand Fellow, 02.2019-06.2019

### Boğaziçi University

Master's in Mathematics, 2013-2015

- Advisor: Olcay Coşkun
- Thesis: The Fibered  $p$ -Biset Functor of the Fibered Burnside Ring

Bachelor's in Mathematics, 2008-2013

Bachelor's in Electrical and Electronics Engineering, 2008-2013

## PUBLICATIONS

- *The fibered  $p$ -biset structure of the fibered Burnside rings*, Algebras and Representation Theory, 22 (2019), 21-41 (with Olcay Coşkun) arXiv: 1712.03460
- *Fusion systems of blocks of finite groups over arbitrary fields*, to appear in Pacific Journal of Mathematics (with Robert Boltje and Çisil Karagüzel) arXiv: 1909.06666
- *Diagonal  $p$ -permutation functors*, submitted (with Serge Bouc) arXiv: 1907.12877
- *The  $A$ -fibered Burnside ring as  $A$ -fibered biset functor in characteristic zero*, submitted (with Robert Boltje) arXiv: 1909.06668
- *Shifted diagonal  $p$ -permutation functors*, in preparation (with Serge Bouc)
- *Galois descent of equivalences between blocks of  $p$ -nilpotent groups*, in preparation

## TALKS

- *The  $A$ -fibered Burnside Ring as  $A$ -Fibered Biset Functor in Characteristic Zero*, AMS Fall Western Sectional Meeting at UC Riverside (November 2019)
- *Diagonal  $p$ -permutation functors*, AMS Fall Eastern Sectional Meeting at Binghamton University (October 2019)
- *The Fibered  $p$ -Biset Functor of the Fibered Burnside Ring*, Workshop on endo- $p$ -permutation and trivial source modules in the representation theory of finite groups, EPFL (August 2016)
- *Grothendieck Groups and Grothendieck Rings*, Workshop on representation rings and their unit groups, UNAM (June 2016)

	<ul style="list-style-type: none"> <li>• <i>Introduction to Biset Functors</i>, Graduate Colloquium, UC Santa Cruz (December 2015)</li> </ul>
CONFERENCES ATTENDED	<ul style="list-style-type: none"> <li>• Conference on Categorical and Homotopical Methods in Representation Theory of Finite Groups, LAMFA, France, 2019</li> <li>• Functorial Methods in Representation Theory, Nesin Mathematics Village, Turkey, 2017</li> <li>• Introductory Workshop on the Representation Theory of Finite Groups, EPFL, 2016</li> </ul>
TEACHING EXPERIENCE	<p><b>Instructor</b></p> <ul style="list-style-type: none"> <li>• Calculus I, Summer Term 2018 &amp; 2019, Boğaziçi University</li> </ul> <p><b>Teaching Assistant</b></p> <ul style="list-style-type: none"> <li>• 2015 -Present, University of California, Santa Cruz <ul style="list-style-type: none"> <li>Algebra II</li> <li>Linear Algebra</li> <li>Introduction to Proof and Problem Solving</li> <li>Introduction to Number Theory</li> <li>Calculus with Applications II</li> <li>Calculus with Applications I</li> <li>Calculus for Science, Engineering and Mathematics</li> <li>Precalculus</li> </ul> </li> <li>• 2013-2015, Boğaziçi University <ul style="list-style-type: none"> <li>Introduction to Complex Analysis</li> <li>Differential Equations</li> <li>Calculus III</li> <li>Calculus I</li> <li>Introduction to Calculus for Social Sciences</li> </ul> </li> </ul>
HONORS AND AWARDS	<ul style="list-style-type: none"> <li>• Chateaubriand Fellowship, 2019</li> <li>• Excellence Scholarship from Prime Ministry of Turkey, 2008 - 2013</li> </ul>
RELEVANT SKILLS	Languages: Turkish, English
REFERENCES	<p>Robert Boltje, Mathematics Professor, University of California Santa Cruz, <a href="mailto:boltje@ucsc.edu">boltje@ucsc.edu</a></p> <p>Serge Bouc, Mathematics Professor, Université de Picardie Jules Verne, <a href="mailto:serge.bouc@u-picardie.fr">serge.bouc@u-picardie.fr</a></p> <p>Olcay Coşkun, Mathematics Professor, Boğaziçi University, <a href="mailto:olcay.coskun@boun.edu.tr">olcay.coskun@boun.edu.tr</a></p>