# Deniz Yılmaz

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| CONTACT INFORMATION | Friedrich Schiller University of Jena<br>Department of Mathematics and Computer Science<br>07737, Jena<br>Germany | +49 (162) 816-3057<br>`deyilmaz@ucsc.edu` |

**RESEARCH INTERESTS**

Representation Theory of Finite Groups

**EDUCATION**

**University of California Santa Cruz, USA**

Ph.D. in Mathematics, 2015 - 2020

- Advisor: Robert Boltje
- Thesis: The $A$-fibered Burnside ring as $A$-fibered biset functor in characteristic zero

**Boğaziçi University, Turkey**

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

**POSITIONS**

**Friedrich Schiller University of Jena, Germany**

Postdoctoral Researcher, November 2020 - present

- Advisor: Burkhard Külshammer

**University of Picardie Jules Verne, France**

Visitor as Chateaubriand Fellow, February 2019 - June 2019

- Advisor: Serge Bouc

**PUBLICATIONS AND PREPRINTS**

- *The fibered p-biset functor 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*, Pacific Journal of Mathematics, 305(1) (2020), 29-41 (with Robert Boltje and Çisil Karagüzel) arXiv: 1909.06666

- *Diagonal p-permutation functors*, Journal of Algebra, 556 (2020), 1036-1056 (with Serge Bouc) arXiv: 1907.12877

- *The A-fibered Burnside ring as A-fibered biset functor in characteristic zero*, to appear in Algebras and Representation Theory (with Robert Boltje) arXiv: 1909.06668

- *Galois descent of equivalences between blocks of p-nilpotent groups*, to appear in Proceedings of the American Mathematical Society (with Robert Boltje) arXiv: 2102.13149

- *On the category of diagonal p-permutation functors*, in preparation (with Serge Bouc)

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| <span style="font-variant:small-caps">Talks</span> | • *Diagonal p-permutation functors*, Halle-Jena Algebra Seminar (January 2021) |
| | • *Fusion systems of block of finite groups over arbitrary fields*, AMS Fall Eastern Virtual Sectional Meeting at Penn State University (October 2020) |
| | • *The A-fibered Burnside Ring as A-Fibered Biset Functor in Characteristic Zero*, Algebra and Number Theory Seminar, UC Santa Cruz (February 2020) |
| | • *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) |
| | • *Introduction to Biset Functors*, Graduate Colloquium, UC Santa Cruz (December 2015) |

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| <span style="font-variant:small-caps">Conferences Attended</span> | • Conference on Categorical and Homotopical Methods in Representation Theory of Finite Groups, LAMFA, France, 2019 |
| | • Functorial Methods in Representation Theory, Nesin Mathematics Village, Turkey, 2017 |
| | • Introductory Workshop on the Representation Theory of Finite Groups, EPFL, 2016 |

<span style="font-variant:small-caps">Teaching Experience</span>

**Instructor**

• Character Theory, Summer Semester 2021, Friedrich-Schiller University of Jena
• Calculus I, Summer Term 2018 & 2019, Boğaziçi University

**Teaching Assistant**

• 2015-2020, University of California, Santa Cruz

    Algebra II
    Linear Algebra
    Introduction to Proof and Problem Solving
    Introduction to Number Theory
    Calculus with Applications II
    Calculus with Applications I
    Calculus for Science, Engineering and Mathematics
    Precalculus

• 2013-2015, Boğaziçi University

    Introduction to Complex Analysis
    Differential Equations
    Calculus III
    Calculus I
    Introduction to Calculus for Social Sciences

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| <span style="font-variant:small-caps">Honors and Awards</span> | **Chateaubriand Fellowship, 2019** |
| | Offered by the Office of Science and Technology of the Embassy of France in the United States |
| | **Excellence Scholarship, 2008 - 2013** |
| | Offered by Prime Ministry of Turkey (ranked 6th in the National University Entrance Exam in 2008) |
| <span style="font-variant:small-caps">Relevant Skills</span> | Languages: Turkish, English |
| <span style="font-variant:small-caps">References</span> | Robert Boltje, Mathematics Professor, University of California Santa Cruz, `boltje@ucsc.edu` |
| | Serge Bouc, Mathematics Professor, University of Picardie Jules Verne, `serge.bouc@u-picardie.fr` |
| | Olcay Coşkun, Mathematics Professor, Boğaziçi University, `olcay.coskun@boun.edu.tr` |
| | Burkhard Külshammer, Mathematics Professor, Friedrich Schiller University of Jena, `kuelshammer@uni-jena.de` |