

Deniz Yılmaz

- CONTACT INFORMATION University of Picardie Jules Verne +33 7 83 37 62 41
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80039, Amiens Cedex 1
France
- 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 RingBachelor's in Mathematics, 2008 - 2013
Bachelor's in Electrical and Electronics Engineering, 2008 - 2013
- POSITIONS **University of Picardie Jules Verne, France**
Postdoctoral Researcher, October 2021 - present
 - Advisor: Serge Bouc**Friedrich Schiller University of Jena, Germany**
Postdoctoral Researcher, November 2020 - September 2021
 - 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*, Algebras and Representation Theory, 24(5) (2021), 1359-1385 (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
- *Diagonal p -permutation functors, semisimplicity, and functorial equivalence of blocks*, submitted (with Serge Bouc) arXiv: 2201.12645
- *Functorial equivalence classes of blocks with cyclic and Klein four defect groups*, in preparation (with Serge Bouc)

TALKS

- *Diagonal p -permutation functors*, The work of Serge Bouc (August 2021)
- *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)

CONFERENCES ATTENDED

- 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

TEACHING EXPERIENCE

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

HONORS AND AWARDS

- Postdoctoral Fellowship, 2021
 - Offered by the Scientific and Technological Research Council of Turkey
- 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 (among 1,640,000 candidates)

RELEVANT SKILLS

Languages: Turkish, English

REFERENCES

Robert Boltje, Mathematics Professor, University of California Santa Cruz
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Olcay Coşkun, Mathematics Professor, Boğaziçi University
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Burkhard Külshammer, Mathematics Professor, Friedrich Schiller University of Jena
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