

MENEVŞE ERYÜZLÜ PAULOVICKS

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RESEARCH INTEREST

Functional Analysis, Operator Algebras, and Noncommutative Geometry

EMPLOYMENT

Visiting Assistant Professor, Department of Mathematics, University of Colorado Boulder, August 2021- May 2024.

EDUCATION

1. Ph.D in Theoretical Mathematics, Arizona State University, 2016-2021

Advisor: John Quigg

Thesis Title: A Categorical Study of C^* -correspondences and Associated Cuntz-Pimsner Algebras

2. M.S in Mathematics, Western Kentucky University, 2014-2016

Advisor: John Spraker

Thesis Title: Two Generalizations of the Filippov Operation

3. M.S in Mathematics, Ege University, Turkey, Program of Algebra and Number Theory, 2013-2016.

Advisor: Alev Firat

Thesis Title: On Commutative Basic Algebras

4. B.S in Theoretical Mathematics, Ege University, Turkey, 2013.

PUBLICATIONS AND PREPRINTS

1. M. E. Paulovicks and M. Tomforde, *Polymorphism Category and Non-negative Rank Factorization* (to be submitted soon).
2. M. E. Paulovicks, *Exactness of the Cuntz-Pimsner Construction*, arXiv:2409.17465v1(2024).
3. R. J. Deeley, M. Eryüzlü, M. Goeffeng, and A. Yashinski, *Wieler Solenoids: Non-Hausdorff expansiveness, Cuntz-Pimsner models, and functorial properties*, arXiv.2310.00415 (2023).
4. M. Eryüzlü and M. Tomforde, *A Cuntz-Krieger Uniqueness Theorem for Cuntz-Pimsner algebras*, arXiv.2212.00248v3 (2023).
5. M. Eryüzlü. *Passing C^* -correspondence Relations to the Cuntz-Pimsner algebras*, Münster J. of Math. **15** (2022), 441-471.
6. M. Eryüzlü, S. Kaliszewski, and J. Quigg. *Erratum to "Exact Sequences in the Enchilada Category"*, Theory Appl. Categ. **38** (2022), no. 14, 432-435.
7. M. Eryüzlü, S. Kaliszewski, and J. Quigg. *Exact Sequences in the Enchilada Category*, Theory Appl. Categ. **35** (2020), no. 12, 350-370.

TEACHING EXPERIENCE

• INSTRUCTOR

MATH 116, College Algebra (Western Kentucky University)

MATH 265/266, Calculus I and II for Engineers (Arizona State University)

MATH 211, Mathematics for Business Analysis (Arizona State University)

MATH 2130, Linear Algebra (University of Colorado Boulder)

MATH 3430 Ordinary Differential Equations (University of Colorado Boulder)

MATH 3001 Analysis I (University of Colorado Boulder)

MATH 8304 Topics in Analysis (University of Colorado Boulder)

Reading Course on Functional Analysis (University of Colorado Boulder)

• TEACHING ASSISTANT

MAT 109, General Mathematics (Western Kentucky University)

MATH 136, Calculus I (Western Kentucky University)

MATH 136, Calculus I-Honors (Western Kentucky University)

MATH 271/272, Calculus with Analytic Geometry II and Calculus III (Arizona State University)

MATH 570/571, Graduate Real Analysis I and II (Arizona State University)

- GRADER

MAT 300, Introduction to Mathematical Structures (Arizona State University)

MAT 371/372, Real Analysis I and II (Arizona State University)

INVITED AND CONTRIBUTED TALKS

1. Joint Math Meetings, AWM Special Session: Women in Operator Algebras, to be held in January 2025, *invited talk*.
2. New Mexico State University Analysis Seminar, 2024, *invited talk*.
3. Western Kentucky University Graduate Seminar, 2024, *invited talk*.
4. Brazos Analysis Seminar, Texas Christian University, 2024, *invited talk*.
5. Fall Central Sectional AMS meeting Special Session: Advances in Operator Algebras, Creighton University, 2023, *invited talk*.
6. Rowlee Workshop/Nebraska-Iowa Functional Analysis Seminar, University of Nebraska-Lincoln, 2023, *invited talk*.
7. Arizona State University and Embry-Riddle Aeronautical University (ASERAU) C^* -algebra seminar, Arizona State University, 2022, *invited talk*.
8. Arizona State University and Embry-Riddle Aeronautical University (ASERAU) C^* -algebra seminar, Arizona State University, 2021, *invited talk*.
9. Algebras and Rings in Colorado Springs Seminar (ARCS), University of Colorado Colorado Springs, 2021, *invited talk*.
10. CU Boulder Math Club, University of Colorado Boulder, 2021, *invited talk*.
11. Operator Theory and Operator Algebras Early Career Workshop, 2021, *contributed talk*.
12. Joint Math Meetings, AMS/MMA Special Session: Non-commutative Geometry and Applications, 2020, *invited talk*.
13. NYC Noncommutative Geometry Seminar, St. Johns University, 2020, *invited talk*.

14. 48th Canadian Operator Symposium, 2020, *contributed talk*.
15. Young Mathematicians in C*-algebras/Young Women in C*-algebras, University of Copenhagen, 2019, *contributed talk*.
16. Western Kentucky University Mathematics Symposium, 2016, *contributed talk*.

SERVICE

1. Co-organizer, Special Session on Operator Algebras at the MAA Rocky Mountain Section Meeting, Colorado College, 2024.
2. Co-organizer, Functional Analysis Seminar, University of Colorado Boulder, 2022-2024.
3. Co-organizer, Groupoid Fest Conference, University of Colorado Boulder, 2022.
4. Invited Panel Speaker, How to be a successful graduate student and a teaching assistant, Arizona State University, 2019/2020.
5. Mentor, School of Mathematical and Statistical Sciences, Peer Mentorship Program, Arizona State University, 2018-2021.
6. Member, AMS Student Chapter, Arizona State University, 2017-2021.
7. Volunteer, ASU Homecoming AMS booth, 2017.
8. Vice President, AMS Student Chapter, Western Kentucky University, 2015-2016

SCHOLARSHIPS, AWARDS AND CERTIFICATES

1. ASU Block Grant Summer Research Award, 2018.
2. Dr. R. Glenn Powers Memorial Scholarship Fund, 2016.
3. Fruit of the Loom Exceptional Graduate Student Award, 2016.
4. Certificate of Completion, Best Practices in Mentoring and College Teaching, 2015.

REFERENCES

- John Quigg, Professor of Mathematics.
Arizona State University
quigg@asu.edu
- Robin J. Deeley, Assoc. Professor of Mathematics.
University of Colorado Boulder
robin.deeley@colorado.edu
- Carla Farsi, Professor of Mathematics.
University of Colorado Boulder
carla.farsi@colorado.edu
(Teaching Letter)
- Mark Tomforde, Assoc. Professor of Mathematics.
University of Colorado Colorado Springs
mtomford@uccs.edu
- Gene Abrams, Professor of Mathematics.
University of Colorado Colorado Springs
gabrams@math.uccs.edu
(Supplemental Research Letter)