MENEVŞE ERYÜZLÜ PAULOVICKS

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RESEARCH INTEREST

Functional Analysis, Operator Algebras, and Noncommutative Geometry

EMPLOYMENT

- Postdoctoral Associate, Department of Mathematical Sciences, New Mexico State University, August 2025-present.
- Postdoctoral Associate, Department of Mathematics, University of Colorado Boulder, August 2021-May 2024.

EDUCATION

- 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

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

  Advisor: John Spraker

  Thesis Title: Two Generalizations of the Filippov Operation

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

  Advisor: Alev Firat

  Thesis Title: On Basic Algebras and Commutative Basic Algebras

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

PUBLICATIONS AND PREPRINTS

1. Valentin Deaconu, M. E. Paulovicks, S. Kaliszewski, and J. Quigg, *k-graph algebras are iterated Cuntz-Pimsner algebras-from the bottom up,* arXiv:2603.20923, 2026.

2. M. E. Paulovicks and M. Tomforde, *A Cuntz-Krieger Uniqueness Theorem for Cuntz-Pimsner algebras*, Math. Scand. **131**, no. 2, 333-366, 2025.

3. R. J. Deeley, M. Eryüzlü, M. Goeffeng, and A. Yashinski, *Wieler Solenoids: Non-Hausdorff expansiveness, Cuntz-Pimsner models, and functorial properties,* Trans. Amer. Math. Soc. DOI: https://doi.org/10.1090/tran/9478 Published electronically: July 17, 2025.

4. M. E. Paulovicks, *Exactness of the Cuntz-Pimsner Construction,* arXiv:2409.17465v1, 2024 (to appear in New York Journal of Mathematics).

5. M. Eryüzlü. *Passing C*-correspondence Relations to the Cuntz-Pimsner algebras*, Münster J. of Math. **15**, no. 2, 441-471, 2022.

6. M. Eryüzlü, S. Kaliszewski, and J. Quigg. *Erratum to ``Exact Sequences in the Enchilada Category''*, Theory Appl. Categ. **38**, no. 14, 432-435, 2022.

7. M. Eryüzlü, S. Kaliszewski, and J. Quigg. *Exact Sequences in the Enchilada Category*, Theory Appl. Categ. **35** , no. 12, 350-370, 2020.

INVITED AND SELECTED CONTRIBUTED TALKS

1. Quantum Mathematics Seminar, University of South Wales, 2026, *invited talk*.

2. Joint Math Meetings, Special Session: Advances in Operator Algebras, 2026, *invited talk*.

3. Mathematical Physics and Operator Algebras Seminar, Michigan State University, 2025, *invited talk*.

4. New Mexico State University Colloquium, 2025, *invited talk*.

5. Arizona State University and Embry-Riddle Aeronautical University (ASERAU) C*-algebra seminar, Arizona State University, 2025, *invited talk*.

6. Joint Math Meetings, AWM Special Session: Women in Operator Algebras, 2025, *invited talk*.

7. New Mexico State University Analysis Seminar, 2024, *invited talk*.

8. Western Kentucky University Graduate Seminar, 2024, *invited talk*.
9. Brazos Analysis Seminar, Texas Christian University, 2024, *invited talk*.
10. Fall Central Sectional AMS meeting Special Session: Advances in Operator Algebras, Creighton University, 2023, *invited talk*.
11. Rowlee Workshop/Nebraska-Iowa Functional Analysis Seminar, University of Nebraska-Lincoln, 2023, *invited talk*.
12. Arizona State University and Embry-Riddle Aeronautical University (ASERAU) C*-algebra seminar, Arizona State University, 2022, *invited talk*.
13. Arizona State University and Embry-Riddle Aeronautical University (ASERAU) C*-algebra seminar, Arizona State University, 2021, *invited talk*.
14. Algebras and Rings in Colorado Springs Seminar (ARCS), University of Colorado Colorado Springs, 2021, *invited talk*.
15. CU Boulder Math Club, University of Colorado Boulder, 2021, *invited talk*.
16. Operator Theory and Operator Algebras Early Career Workshop, 2021, *contributed talk*.
17. Joint Math Meetings, AMS/MMA Special Session: Non-commutative Geometry and Applications, 2020, *invited talk*.
18. NYC Noncommutative Geometry Seminar, St. Johns University, 2020, *invited talk*.
19. 48th Canadian Operator Symposium, 2020, *contributed talk*.
20. Young Mathematicians in C*-algebras/Young Women in C*-algebras, University of Copenhagen, 2019, *contributed talk*.

SERVICE

Conference and Seminar Organization

- Co-organizer, Special Session: Operator Algebras, Noncommutative Geometry, and Applications, Joint Mathematics Meetings, 2026.
- Co-organizer, Groupoid Fest Conference, New Mexico State University, 2025.
- Co-organizer, Analysis Seminar, New Mexico State University, 2025-present.

- Co-organizer, Special Session: Developments in Operator Algebras, MAA Rocky Mountain Section Meeting, University of Colorado Boulder, 2025.
- Co-organizer, Special Session: Developments in Operator Algebras, MAA Rocky Mountain Section Meeting, University of Colorado Boulder, 2024.
- Co-organizer, Functional Analysis Seminar, University of Colorado Boulder, 2022-2024.
- Co-organizer, Groupoid Fest Conference, University of Colorado Boulder, 2022.

Committee Work

- PhD Thesis Committee Member, Rachel Chaiser, *A Low-Dimensional Counterexample to the HK-Conjecture*, 2024.

Journal Referee

- Mathematische Annalen

Other

- Invited Panel Speaker, How to be a successful graduate student and a teaching assistant, Arizona State University, 2019/2020.
- Mentor, School of Mathematical and Statistical Sciences, Peer Mentorship Program, Arizona State University, 2018-2021.
- Member, AMS Student Chapter, Arizona State University, 2017-2021.
- Volunteer, ASU Homecoming AMS booth, 2017.
- Vice President, AMS Student Chapter, Western Kentucky University, 2015-2016

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)

MATH 1511, Calculus I (New Mexico State University)

MATH 2530, Calculus III (New Mexico State University)

- 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)

SCHOLARSHIPS, AWARDS, AND CERTIFICATES

1. Quantum Computation using Qiskit v2.X Developer - Associate, IBM Professional Certification, 2026.
2. New Mexico State University Arts and Science Faculty/Postdoc Travel Award, 2025.
3. Arizona State University Block Grant Summer Research Award, 2018.
4. Dr. R. Glenn Powers Memorial Scholarship Fund, 2016.
5. Fruit of the Loom Exceptional Graduate Student Award, 2016.

6. Certificate of Completion, Best Practices in Mentoring and College Teaching, 2015.

REFERENCES

- John Quigg, Professor of Mathematics.
  Arizona State University
  quigg@asu.edu

- Boyu Li, Assistant Professor of Mathematics.
  New Mexico State University
  boyuli@nmsu.edu

- Robin J. Deeley, Associate 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)