

CURRICULUM VITAE

Eylem ÖZTÜRK

Department of Mathematics, Faculty of Science

Hacettepe University, Beytepe-Ankara, Turkey

Phone: 90 312 2977850

Fax: 90 312 2992017

e-mail: eyturk1983@gmail.com, eozturk@hacettepe.edu.tr

Educational Background

- Ph.D in Mathematics, Hacettepe University, Turkey, 2014
- M.Sc in Mathematics, Hacettepe University, Turkey, 2008
- B.Sc in Mathematics, Hacettepe University, Turkey, 2005

Theses

- Ph.D Thesis: Investigation of Class of Nonlinear Diffusion-Reaction Equations. (2014, Supervisor: Prof. Dr. Kamal SOLTANOV, Faculty of Science, Department of Mathematics, Hacettepe University.)
- M.Sc Thesis: "Investigation of the 3. Type Boundary Value Problem of a Yamabe Type Equation." (2008, Supervisor: Prof. Dr. Kamal SOLTANOV, Faculty of Science, Department of Mathematics, Hacettepe University.)

Foreign Language

- English

Work Experience

- Assistant Professor, Department of Mathematics, Hacettepe University, Beytepe- Ankara, Turkey, 2018-present.
- Research Assistant Dr., Department of Mathematics, Hacettepe University, Beytepe- Ankara, Turkey, 2014-2018.
- Research Assistant, Department of Mathematics, Hacettepe University, Beytepe- Ankara, Turkey, 2006-2013.

Research Visiting

- 3 September 2012-8 February 2013, collaborate with Prof. Dr. Gregory Seregin, Oxford Centre for Nonlinear PDE, University of Oxford.

Papers

1. Global multiplicity of positive solutions for nonlinear robin problems with an indefinite potential term (with Nikolaos S. Papageorgiou), *Results Math* **79**, 113 (2024). <https://doi.org/10.1007/s00025-024-02142-2> (SCI-indexed).
2. Well-posedness and Global Attractors for Viscous Fractional Cahn-Hilliard Equations with Memory" (with Joseph L. Shomberg), September 2022, *Mathematical and Computational Applications* 6(9):505 (SCI-indexed).
3. The limit as $p \rightarrow \infty$ for the p -Laplacian equation with dynamical boundary conditions (with Julio D. Rossi), October 2021, *Electronic Journal Of Differential Equations* (SCI-indexed).
4. Existence and Behavior results for a nonlocal nonlinear parabolic equation with variable exponent" (with Uğur Sert), *Kyungpook Mathematical Journal*, 2020 (ESCI-indexed).
5. Well-posedness and long time behavior for p -Laplacian Equation with nonlinear Boundary Condition (with Stanislav Antontsev), *Journal of Mathematical Analysis and Applications*, April 2019, pages 1604-1630 (SCI-indexed).
6. Asymptotic Behavior of the Non-Autonomous Reaction-Diffusion Equation with Robin Boundary Condition, Eylem Ozturk, *Commun. Fac. Sci. Univ. Ank. Ser. A1.*, 2019 (ESCI-indexed).
7. Existence and non-existence of solutions of reaction-diffusion equation with Robin boundary condition (with Kerime Kallı), *Ukrainian Mathematical Journal*, Vol. 68, 2016 (SCI-indexed).
8. Solvability and long time behavior of nonlinear reaction–diffusion equations with Robin boundary condition (with Kamal Soltanov), *Nonlinear Analysis-Theory Methods & Application*, Volume: 108 Pages: 1-13, (2014) (SCI-indexed).
9. Robin and Initial Value Problem for a Yamabe Type Parabolic Equation, (with Kamal Soltanov). *Progress in Analysis, Proceedings of the 8th Congress of the International Society for Analysis, its Applications, and Computation*, Volume 2, page 31, 2011.
10. On Some Yamabe Type Equations, (with Kamal Soltanov) *AIP Conf. Proc.*, 1168, 377 (2009). (SCI-indexed)

11. Well-posedness and blow up of solutions for Laplacian with nonlocal memory under Robin Boundary Condition, Eylem Öztürk (submitted).
12. The limit as $p \rightarrow \infty$ in nonlocal p -Laplacian equation with dynamical boundary conditions, Eylem Öztürk (submitted).
13. Variational approach to periodic problem for nonlinear parabolic equation in Musielak-Orlicz spaces (submitted with Andrea Nowakowski).
14. Global multiplicity of positive solutions for anisotropic (p,q) Robin boundary problems with an indefinite potential term (submitted with Nikolaos S. Papageorgiou).
15. On the asymptotic behavior of the solutions of a class of anisotropic initial-boundary value problems (submitted with Cristian Enache).

Scientific and Technical Writings

- “Pandeminin matematiğini anlamak”, Journal of the Faculty of Science, Hacettepe University, 2021.

Special Seminars

- “Investigation of a class of reaction-diffusion equations”, 25 October 2012, Oxford Centre for Nonlinear PDE, University of Oxford (full details are available at <http://www.maths.ox.ac.uk/groups/oxpde/events/oxpde-lunchtime-seminar>)

Conferences

1. İzmir Mathematics Days V, September 27-29, 2023 (with talk).
2. The 6th Mediterranean International Conference of Pure & Applied Mathematics and Related Areas, Paris, FRANCE, August 23–27, 2023 (with talk).
3. The Tenth Congress of Romanian Mathematicians, June 30- July 5, 2023 Pitesti, Romania (with talk).
4. Inaugural meeting of Asian-Oceanian Women in Mathematics, 24-28 April 2023 (with talk).

5. TKMD Kadın ve Bilim IX , Hacettepe Univ., Math. Dept., 24 November, 2023.
6. 27th International Conference on Difference Equations and Applications, Centrale Supélec, Paris-Saclay, France, 2022 (with talk).
7. International Conference on Analysis and Its Applications-2021 (ICAA_Nepal_2021) (with talk).
8. Turkey-Italy Colloquium on Applied Analysis and Differential Equations, Hacettepe University, Ankara, Turkey, 2019 (invited talk)
9. Function Spaces XII 2018, Krakow, Poland, 2018 (with talk)
10. Equadiff 2017, Bratislava, Slovakia, 2017 (with talk).
11. Workshop on Analysis and PDE, 2017, Leibniz Universitat Hannover, Germany, 2017 (with poster presentation).
12. The 11th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Orlando, USA, 2016 (with talk)
13. Workshop on Nonlinear PDEs in Applied Mathematics , Izmir, Turkey, 2017.
14. International Conference on Nonlinear Operators Differential Equations and Applications, ICNODEA 2015, July 14 - 17, 2015C, Cluj-Napoca, Romania (with talk)
15. Workshop in Nonlinear PDEs, September 7-11, 2015 ULB, Belgium.
16. Summer School on Semigroups for Dynamical Systems: Perturbation, Positivity, Networks, Germany between 19-24 July, 2015.
17. The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Madrid, Spain, 2014 (with talk).
18. International Conference on Nonlinear PDE, Mathematical Institute, University of Oxford, 2012 (with poster presentation).
19. The International Society for Analysis, its Applications and Computation (ISAAC), Moscow, Russia, 2011 (with talk).
20. Mathematical Analysis, Differential Equations and Their Applications, Bulgaria, 2010 (with talk).
21. 7th International Conference of Numerical Analysis and Applied Mathematics, Crete, Greece, 2009 (with talk).
22. 12. Mathematics Symposium, Hacettepe University, Ankara, 2013 (with talk).

23. 9th Ankara Mathematics Days, Atılım University, Ankara, 2014.
24. 7th Ankara Mathematics Days, Bilkent University, Ankara, 2012.
25. 6th Ankara Mathematics Days, Hacettepe University, Ankara, 2011.
26. XXI. National Mathematics Symposium, Koç University, İstanbul, Turkey, 2008.
27. XX. National Mathematics Symposium, Erzurum, Turkey, 2007 (with talk).
28. XIX. National Mathematics Symposium, Kütahya, Turkey, 2006.

Awards

1. Grant by International Society of Difference Equations (ISDE) for 27th International Conference on Difference Equations and Applications, Centrale Supélec, Paris-Saclay, France, 2022.
2. Scholarship for 110T558 TUBITAK-NASU Project “The solvability, Complete Integrability and Analytical Properties of the Solution Manifolds to Nonlinear Dynamical Systems of Mathematical Physics”, 15.11.2011-10.01.2014.
3. Grant by TUBITAK for The 11th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Orlando, USA, 2016.
4. Grant by Leibniz Universität Hannover for Workshop on Analysis and PDE, 2017, Leibniz Universität Hannover, Germany, 2017
5. Grant by Wuppertal University for Summer School on Semigroups for Dynamical Systems: Perturbation, Positivity, Networks, Germany between 19-24 July, 2015.

Administrative Duties

1. Co-head of Department of Mathematics, Hacettepe University June 2023-..

2. Member of organization committee, TKMD Kadın ve Bilim IX , Hacettepe Univ., Math. Dept., 24 November, 2023.
3. Coordinator of Mathematics Department, Hacettepe University, June 2021-June 2023
4. Member of organization committee, TKMD Kadın ve Bilim IX , Hacettepe Univ., Math. Dept., 24 November, 2023.
5. "Matematik Kitapları Söyleşileri ", Member of organization committee, Department of Mathematics, Hacettepe University, 2023-.
6. Member of editorial board, Journal of the Faculty of Science, Hacettepe University, 2018-2022.
7. Member of organization committee, Turkey-Italy Colloquium on Applied Analysis and Differential Equations, Hacettepe University, Ankara, Turkey, 2019.
8. Member of organization committee, 12th Ankara Mathematics Days, Hacettepe University, Ankara, Turkey, 2017.
9. Member of organization committee, 2. Career Day of Mathematics Department of Hacettepe University, 17 April 2014.
10. Member of organization committee, 1. Career Day of Mathematics Department of Hacettepe University, 29 May 2013.
11. Member of organization committee, 6th Ankara Mathematics Days, Hacettepe University, Ankara, 2011.