

CURRICULUM VITAE

Eylem ÖZTÜRK YETKİL

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EDUCATION

Ph.D. in Mathematics, Hacettepe University, Türkiye, 2014

M.Sc. in Mathematics, Hacettepe University, Türkiye, 2008

B.Sc. in Mathematics, Hacettepe University, Türkiye, 2005

THESES

Ph.D. Thesis: Investigation of Class of Nonlinear Diffusion-Reaction Equations. (Supervisor: Prof. Dr. Kamal SOLTANOV, Hacettepe University, 2014)

M.Sc. Thesis: Investigation of the 3rd Type Boundary Value Problem of a Yamabe Type Equation. (Supervisor: Prof. Dr. Kamal SOLTANOV, Hacettepe University, 2008)

ACADEMIC APPOINTMENTS

Associate Professor, Department of Mathematics, Hacettepe University, 2025–Present

Assistant Professor, Department of Mathematics, Hacettepe University, 2018-2025.

Research Assistant Dr., Department of Mathematics, Hacettepe University, 2014-2018.

Research Assistant, Department of Mathematics, Hacettepe University, 2006-2014.

LANGUAGES

English

RESEARCH VISITS

1. 3 September 2012-8 February 2013, collaborate with Prof. Dr. Gregory Seregin, Oxford Centre for Nonlinear PDE, University of Oxford.

ERASMUS VISITS

1. ERASMUS Blended Intensive Program “Theoretical and numerical analysis of differential equations and their applications”, Cagliari, 21-25 July 2025, University of Cagliari, Department of Mathematics and Computer Science.

PAPERS

1. Impulsive limit in nonlinear mixed initial-boundary value problem for pseudo-parabolic equations with nonstandard growth: Stanislav Antontsev, Ivan Kuznetsov, Eylem Öztürk Yetkil, Serik Aitzhanov, Nonlinear Differential Equations and Applications NoDEA, 2026 (SCIE-indexed).
2. Logarithmic double phase problems with critical growth on the boundary: Öztürk, E., Winkert, P., J Elliptic Parabol Equ., 2026 (ESCI-indexed).
3. On the asymptotic behavior of the solutions of a class of anisotropic initial-boundary value problems: Cristian Enache, Eylem Öztürk, Applied Mathematics and Optimization, 2026, Volume 93, issue 2 (SCIE-indexed).
4. Resonant singular problems with unbalanced growth: Eylem Öztürk, Nikolaos S. Papageorgiou, 2026, online first, Zeitschrift für Analysis und ihre Anwendungen (SCIE-indexed).
5. Constant sign and nodal solutions for anisotropic eigenvalue Problems: Eylem Öztürk, Nikolaos S. Papageorgiou, 2025, Volume 29, issue 3, Positivity (SCIE-indexed).
6. Nonhomogeneous singular problems with sign-changing perturbation: Eylem Öztürk, Nikolaos S. Papageorgiou, 2025, Volume 11, issue 2, Journal of Elliptic and Parabolic Equations (ESCI-indexed).
7. Variational approach to the periodic problem for a nonlinear parabolic equation in Musielak–Orlicz spaces: A. Nowakowski, E. Öztürk, Nonlinear Anal. Real World Appl. 85 (2025), Paper No. 104375; (SCIE-indexed).
8. Nonhomogeneous singular problems with convection, Eylem Öztürk, Nikolaos S. Papageorgiou, December 2024, 26:62, Journal of Fixed Point Theory and Applications (SCIE-indexed).
9. Global multiplicity of positive solutions for anisotropic (p,q) Robin boundary problems with an indefinite potential term: Eylem Öztürk, Nikolaos S. Papageorgiou, November 2024, 58, Electronic Journal of Qualitative Theory of Differential Equations (SCIE-indexed).
10. The limit case in a nonlocal p -Laplacian equation with dynamical boundary conditions: Eylem Öztürk, 2024, Vol. 67, No:2, Revista de la UMA (SCIE-indexed).

11. Global multiplicity of positive solutions for nonlinear Robin problems with an indefinite potential term: Eylem Öztürk, Nikolaos S. Papageorgiou, Results Math 79, 113, 2024 (SCIE-indexed).
12. Well-posednes and Global Attractors for Viscous Fractional Cahn-Hilliard Equations with Memory: Eylem Öztürk, Joseph L. Shomberg, September 2022, Mathematical and Computational Applications 6(9):505 (SCIE-indexed).
13. Limit for the p-Laplacian equation with dynamical boundary conditions: Eylem Öztürk, Julio D. Rossi, October 2021, Electronic Journal of Differential Equations (SCIE-indexed).
14. Existence and Behavior results for a nonlocal nonlinear parabolic equation with variable exponent: Uğur Sert, Eylem Öztürk, Kyungpook Mathematical Journal, 2020 (ESCI-indexed).
15. Well-posedness and long-time behavior for p-Laplacian Equation with nonlinear Boundary Condition: Stanislav Antontsev, Eylem Öztürk, Journal of Mathematical Analysis and Applications, 2019 (SCIE-indexed).
16. Asymptotic Behavior of the Non-Autonomous Reaction-Diffusion Equation with Robin Boundary Condition, Eylem Öztürk, Commun. Fac. Sci. Univ. Ank. Ser. A1., 2019 (ESCI-indexed).
17. Existence and non-existence of solutions of reaction-diffusion equation with Robin boundary condition: Eylem Öztürk, Kerime Kallı, Ukrainian Mathematical Journal, Vol. 68, 2016 (SCI-indexed).
18. Solvability and long-time behavior of nonlinear reaction–diffusion equations with Robin boundary condition: Eylem Öztürk, Kamal Soltanov, Nonlinear Analysis-Theory Methods & Application, Volume: 108 Pages: 1-13, (2014) (SCI-indexed).
19. Robin and Initial Value Problem for a Yamabe Type Parabolic Equation: Eylem Öztürk, 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.
20. On Some Yamabe Type Equations: Eylem Öztürk, Kamal Soltanov. AIP Conf. Proc., 1168, 377 (2009). (SCI-indexed)

PROJECTS

1. 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.

SCIENTIFIC AND TECHNICAL WRITINGS

1. “Pandeminin matematiğini anlamak” Journal of the Faculty of Science, Hacettepe University, 2021.
2. “Doğruyu araken yanlışlarla karşılaşmak: Analiz’de Karşı Örnekler” Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü Lisans Dergisi, 2026

CONFERENCES

1. ICOMAA-2026, 9th International HYBRID Conference on Mathematical Advances and Applications, 07 -09 May 2026, Yıldız Technical University (with talk).
2. TKMD Kadın ve Bilim XI , Türk Hava Kurumu Univ., 21 November, 2025
3. Kadın ve Matematik: Cebirsel Kodlama Teorisi ve Kriptografi, 08 Mart 2025, Odtü, Ankara.
4. Modelling, PDE analysis and computational mathematics in materials science Prague, Czech Republic, 22nd–27th September 2024 (with talk).
5. ICOMAA-2024 7th International HYBRID Conference on Mathematical Advances and Applications, 08 -11 May 2024, Yıldız Technical University (with talk).
6. İzmir Mathematics Days V, September 27-29, 2023 (with talk).
7. The 6th Mediterranean International Conference of Pure & Applied Mathematics and Related Areas, Paris, FRANCE, August 23–27, 2023 (with talk).
8. The Tenth Congress of Romanian Mathematicians, June 30- July 5, 2023 Pitesti, Romania (with talk).
9. Inaugural meeting of Asian-Oceanian Women in Mathematics, 24-28 April 2023 (with talk).
10. TKMD Kadın ve Bilim IX , Hacettepe Univ., Math. Dept., 24 November, 2023.
11. 27th International Conference on Difference Equations and Applications, Centrale Supélec, Paris-Saclay, France, 2022 (with talk).
12. International Conference on Analysis and Its Applications-2021 (ICAA_Nepal_2021) (with talk).
13. Turkey-Italy Colloquium on Applied Analysis and Differential Equations, Hacettepe University, Ankara, Turkey, 2019 (invited talk)
14. Function Spaces XII 2018, Krakow, Poland, 2018 (with talk)
15. Equadiff 2017, Bratislava, Slovakia, 2017 (with talk).
16. Workshop on Analysis and PDE, 2017, Leibniz Universität Hannover, Germany, 2017 (with poster presentation).
17. The 11th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Orlando, USA, 2016 (with talk)
18. Workshop on Nonlinear PDEs in Applied Mathematics, Izmir, Turkey, 2017.
19. International Conference on Nonlinear Operators Differential Equations and Applications, ICNODEA 2015, July 14 - 17, 2015C, Cluj-Napoca, Romania (with talk)
20. Workshop in Nonlinear PDEs, September 7-11, 2015 ULB, Belgium.
21. Summer School on Semigroups for Dynamical Systems: Perturbation, Positivity, Networks, Germany between 19-24 July, 2015.
22. The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Madrid, Spain, 2014 (with talk).
23. International Conference on Nonlinear PDE, Mathematical Institute, University of Oxford, 2012 (with poster presentation).

24. The International Society for Analysis, its Applications and Computation (ISAAC), Moscow, Russia, 2011 (with talk).
25. Mathematical Analysis, Differential Equations and Their Applications, Bulgaria, 2010 (with talk).
26. 7th International Conference of Numerical Analysis and Applied Mathematics, Crete, Greece, 2009 (with talk).
27. 12. Mathematics Symposium, Hacettepe University, Ankara, 2013 (with talk).
28. 9th Ankara Mathematics Days, Atılım University, Ankara, 2014.
29. 7th Ankara Mathematics Days, Bilkent University, Ankara, 2012.
30. 6th Ankara Mathematics Days, Hacettepe University, Ankara, 2011.
31. XXI. National Mathematics Symposium, Koç University, İstanbul, Turkey, 2008.
32. XX. National Mathematics Symposium, Erzurum, Turkey, 2007 (with talk).
33. XIX. National Mathematics Symposium, Kültahya, Turkey, 2006.

AWARDS

1. Fully Support for the Modelling, PDE analysis and computational mathematics in materials science, Prague, Czech Republic, 22nd–27th September 2024.
2. Grant by International Society of Difference Equations (ISDE) for 27th International Conference on Difference Equations and Applications, Centrale Supélec, Paris-Saclay, France, 2022.
3. 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.
4. Grant by TUBITAK for The 11th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Orlando, USA, 2016.
5. Grant by Leibniz Universität Hannover for Workshop on Analysis and PDE, 2017, Leibniz Universität Hannover, Germany, 2017
6. Grant by Wuppertal University for Summer School on Semigroups for Dynamical Systems: Perturbation, Positivity, Networks, Germany between 19-24 July, 2015.

ADMINISTRATIVE DUTIES

1. Hacettepe Üniversitesi, Matematik Bölümü Lisans dergisi editörlüğü, 2025-
2. Member of organization committee, TKMD Kadın ve Bilim XI , Türk Hava Kurumu Univ., 21 November, 2025
3. Member of organization committee, ERASMUS Blended Intensive Program “Theoretical and numerical analysis of differential equations and their applications”, Cagliari, 21-25 July 2025 University of Cagliari, Department of Mathematics and Computer Science.
4. Member of organization committee, “Dünya Matematik Günü”, 2025, Department of Mathematics, Hacettepe University.
5. Co-head of Department of Mathematics, Hacettepe University June 2023-June 2024.
6. Coordinator of Mathematics Department, Hacettepe University, June 2021-June 2023.

7. Member of organization committee, TKMD Kadın ve Bilim IX , Hacettepe Univ., Math. Dept., 24 November, 2023.
8. “Matematik Kitapları Söyleşileri”, Member of organization committee, Department of Mathematics, Hacettepe University, 2023-.
9. Member of editorial board, Journal of the Faculty of Science, Hacettepe University, 2018-2022.
10. Member of organization committee, Turkey-Italy Colloquium on Applied Analysis and Differential Equations, Hacettepe University, Ankara, Turkey, 2019.
11. Member of organization committee, 12th Ankara Mathematics Days, Hacettepe University, Ankara, Turkey, 2017.
12. Member of organization committee, 6th Ankara Mathematics Days, Hacettepe University, Ankara, 2011.

ARTICLE REVIEW FOR AMERICAN MATHEMATICAL SOCIETY MATHSCINET

1. **MR4995005:** Vanterler da C. Sousa, J.; Kucche, Kishor D.; Srivastava, Hari M. Some fractional-order (p,q) -Laplacian systems of equations *Appl. Anal. Discrete Math.* 19 (2025), no. 2, 315–334.
2. **MR4972031** Aizicovici, Sergiu, Papageorgiou, Nikolaos S. and Staicu, Vasile, Parametric nonlinear nonhomogeneous singular problems with an indefinite perturbation, *Lib. Math. (N.S.)* 45 (2025), no. 1, 1-22.
3. **MR4951458:** Han, Jiangfeng; Liu, Zhenhai; Papageorgiou, Nikolaos S. Global existence and multiplicity of positive solutions for singular double phase equations. *Bull. Malays. Math. Sci. Soc.* **48** (2025), no. 5, Paper No. 179, 42 pp.
4. **MR4925373:** Failla, Giuseppe; Gasiński, Leszek; Papageorgiou, Nikolaos S. Constant sign and nodal solutions for variable exponent double phase problem. *Results Math.* **80** (2025), no. 5, Paper No. 147, 27 pp.
5. **MR4931395:** Gu, Mengyang; He, Siming: Mixing, enhanced dissipation, and phase transition in the kinetic Vicsek model, *SIAM J. Math. Anal.* 57 (2025), no. 4, 3878—3909.
6. **MR4933175:** Chen, Chao-Nien, Choi, Yung-Sze and Fusco, Nicola: Co-existence of planar and non-planar traveling waves in a sharp interface model, *J. Differential Equations* 446 (2025), Paper No. 113615, 41~pp

PROFESSIONAL MEMBERSHIP

1. Association for Turkish Women in Mathematics (TKMD, tkmd.org).
2. International Society of Difference Equations (ISDE)