ALEV MERAL DÜLGER
CURRICULUM VITAE

CONTACT INFORMATION

Dicle University

Faculty of Science

Department of Mathematics

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EDUCATION

Postdoc, Mathematics, Middle East Technical University, Turkey, 2020 - 2022

Ph.D., Mathematics, Dicle University, Turkey, 2019

Thesis: Generalized Dynnikov Coordinates on the Finitely Punctured Torus

M.S., Financial Mathematics, Middle East Technical University, Turkey, 2013

Thesis: Optimal Portfolio Strategies Under Various Risk Measures

M.S., Educational Sciences, Mathematics (non-thesis education**), Anadolu University,** Turkey, 2009

B.S., Mathematics (first-class honours degree), Eskişehir Osmangazi University, Turkey, 2008

High school, Eryaman Foreign Language Weighted High School (first-class honours degree), Turkey, 2003

POSITIONS

Assistant Professor Doctor, Dicle University	2022 – present
Visiting Research Assistant Doctor, Middle East Technical University	2020 – 2022
Research Assistant Doctor, Dicle University	2019 – 2022
Research Assistant, Dicle University	2015 – 2019
Mathematics Teacher, Private Smart School Ivedik OSB Technical College, Turkey	2014 – 2015

FOREIGN LANGUAGE SCORE (English)

- Public Personnel Language Exam in Turkey (KPDS, December 5, 2010) score: 82
- The Exam of the Foreign Language in Turkey (YDS, September 7, 2014) score: 80

RESEARCH INTERESTS

Low dimensional topology, Dynnikov coordinates on orientable surfaces, combinatorial problems for multicurves on orientable surfaces via Dynnikov coordinates, geometric topology

LECTURING

Undergraduate Courses

Semester	Course name	Language	Hour
2024-2025	LINEAR ALGEBRA I	Turkish	4
2024-2025	SHY101 CALCULUS I	Turkish	4
2024-2025	MAT 561 CALCULUS I	Turkish	4
2024-2025	MAT 1563 CALCULUS I	Turkish	2
2024-2025	MAT2606 LINEAR ALGEBRA II	Turkish	4
2024-2025	INS 104 LINEAR ALGEBRA	Turkish	4
2024-2025	EEZ104 LINEAR ALGEBRA	Turkish	3
2024-2025	MAK120 LINEAR ALGEBRA	Turkish	2
2024-2025	SHY102 CALCULUS II	Turkish	4
2024-2025	TEACHING PRACTICE (SPRING)	Turkish	2
2023-2024	MAK120 LINEAR ALGEBRA	Turkish	2
2023-2024	MAT2606 LINEAR ALGEBRA II	Turkish	4
2023-2024	SHY102 CALCULUS II	Turkish	4
2023-2024	MAT 1564 CALCULUS II	Turkish	2
2023-2024	EEZ104 LINEAR ALGEBRA	Turkish	3
2023-2024	MAT2605 LINEAR ALGEBRA I	Turkish	4
2023-2024	SHY101 CALCULUS I	Turkish	4
2023-2024	MAT 1563 CALCULUS I	Turkish	2
2023-2024	TEACHING PRACTICE (SPRING)	Turkish	2
2023-2024	TEACHING PRACTICE (FALL)	Turkish	2
2022-2023	INS 104 LINEAR ALGEBRA	Turkish	4
2022-2023	EEZ 104 LINEAR ALGEBRA	Turkish	3
2022-2023	MAK120 LINEAR ALGEBRA	Turkish	2
2022-2023	SHY102 CALCULUS II	Turkish	4

PAPERS AND PREPRINTS

- Dynnikov coordinates on punctured torus. Turkish Journal of Mathematics, 45(2), 661-677, 2021. (SCI-E)
  https://journals.tubitak.gov.tr/cgi/viewcontent.cgi?article=1137&context=math

- Multiple Curves on Punctured Orientable Surfaces. FILOMAT, 36(20), 6929-6943, 2022. (SCI-E)

https://www.pmf.ni.ac.rs/filomat-content/2022/36-20/36-20-9-17415.pdf

- Geometric Intersection Numbers between Multiple and Elementary Curves on Punctured Torus. FILOMAT, 36(20), 7043-7057, 2022. (SCI-E)
  https://www.pmf.ni.ac.rs/filomat-content/2022/36-20/36-20-18-17795.pdf

- Ölçülen Yapraklanmaların Genelleştirilmiş Dynnikov Koordinat Sistemi. European Journal of Science and Technology, Özel Sayı 28, 437-440, Kasım 2021. (TR-Dizin)
  https://doi.org/10.31590/ejosat.1004314

- Comparison of Various Risk Measures for an Optimal Portfolio. Acta Universitatis Apulensis, (64), 83-115, 2020. (Mathematical Reviews, Zentralblatt für Mathematik, EBSCO)
  http://auajournal.uab.ro/upload/97_1627_aua_manuscript.pdf

- Sonlu Noktası Çıkarılmış Disk Üzerindeki Örgüler, (with Meryem Demirtaş), BEU Journal of Science, 9(3), 1460-1468, 2020. (TR-Dizin) https://doi.org/10.17798/bitlisfen.641264

TALKS GIVEN

- Geometric intersections of multiple curves and specific curves on a punctured torus, TURK-COSE 2024: VI. International Turkic World Congress on Science and Engineering, Baku, Azerbaijan, December 19-21, 2024.
- Homology Groups of Mapping Class Groups, EJONS 13th International Conference on Mathematics, Engineering, Natural & Medical Sciences, Nevşehir, Turkey, October 26-27, 2021.
- Portfolio Optimization in the Presence of Expected Loss, 8th International Congress on Fundamental and Applied Sciences, Antalya, Turkey, October 19-21, 2021.
- Ölçülen Yapraklanmaların Genelleştirilmiş Dynnikov Koordinat Sistemi, 1 st International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, November 1-3, 2021.
- Generalized Dynnikov Coordinates on Higher Genus Surfaces, 5th Workshop of Association for Turkish Women in Maths, Diyarbakır, Turkey, May 05-07, 2018.
- Generalized Dynnikov Coordinates on Higher Genus Surfaces, 2018 International Conference on Topology and its Applications, Nafpaktos, Greece, July 7-11, 2018.
- Optimal Portfolio Strategies Under Various Risk Measures, (with Ömür Uğur), International Conference On Pure and Applied Mathematics, Yüzüncü Yıl University, Van, Turkey, August 25-28, 2015.

CONFERENCES AND WORKSHOPS

- 12th Ankara Mathematics Days, Hacettepe University, Ankara, Turkey, May 25-26, 2017.
- 4th Workshop of Association of Turkish Women In Maths, Middle East Technical University, Ankara, Turkey, April 28-29, 2017.
- 10th Ankara Mathematics Days, Middle East Technical University, Ankara, Turkey, June 11-12, 2015.

CONFERENCE ORGANIZER

- The Ninth International Conference on Computational Mathematics and Engineering Sciences (CMES-2025), Member of the Organizing Committee, Diyarbakır, TURKEY, 17-19 May 2025.
- INTERNATIONAL 8TH USBILIM HEALTH, ENGINEERING AND APPLIED SCIENCES CONGRESS, Member of the Organizing Committee, Diyarbakır, TURKEY, 26.11.2024 - 28.11.2024.
- 5th Workshop of Association of Turkish Women in Mathematics, Member of the Organizing Committee, Diyarbakır, Turkey, May 5-7, 2018.

SCIENTIFIC COMMITTEE MEMBER

- Dicle University 3rd International Symposium on Graduate Researches in Science, Scientific Committee Member, Diyarbakır, TURKEY, May 12-14, 2025.
- The Ninth International Conference on Computational Mathematics and Engineering Sciences (CMES-2025), Scientific Committee Member, Diyarbakır, TURKEY, 17-19 May 2025.

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SESSION CHAIR

- The Ninth International Conference on Computational Mathematics and Engineering Sciences (CMES-2025), Session Chair, Diyarbakır, TURKEY, 17-19 May 2025.

PEER REVIEWING

- Dicle University 3rd International Symposium on Graduate Researches in Science, Diyarbakır,TURKEY, May 12-14, 2025.
- WSEAS TRANSACTIONS ON BUSINESS AND ECONOMICS, WSEAS: Athens, Greece / Sofia, Bulgaria / Houston, Texas, USA, 24.11.2024 -24.11.2024 (International)
- WSEAS TRANSACTIONS ON MATHEMATICS, WSEAS: Athens, Greece / Sofia, Bulgaria / Houston, Texas, USA, 23.11.2024 -23.11.2024 (International)

ACTIVITIES

- Training in the summer school about Low Dimensional Topology, Budapest, Hungary, July 4-8, 2016 (under Erasmus Staff Mobility Programme).
- Exhibition guide for Imaginary-open mathematics exhibition, Diyarbakır, Turkey, November 9-24, 2015.