

Prof. BAHAR UYAR DÜLDÜL

Personal Information

Office Phone: [+90 212 383 5556](tel:+902123835556)

Web: <https://avesis.yildiz.edu.tr/buduldul>

International Researcher IDs

ORCID: 0000-0003-3281-8918

Yoksis Researcher ID: 172775

Education Information

Doctorate, Ondokuz Mayıs University, Institute Of Science, Matematik Anabilim Dalı, Turkey 2004 - 2009

Postgraduate, Ondokuz Mayıs University, Institute Of Science, Matematik Anabilim Dalı, Turkey 1999 - 2002

Undergraduate, Ondokuz Mayıs University, Faculty Of Education, Matematik Öğretmenliği, Turkey 1995 - 1999

Foreign Languages

English, B1 Intermediate

Dissertations

Doctorate, İki yüzeyin arakesit egrisi için bazı karakterizasyonlar, Ondokuz Mayıs Üniversitesi, Fen Bilimleri Enstitüsü, Matematik, 2009

Postgraduate, IR^n_v yarı-öklidiyen uzayında yarı-hiperregle yüzeylerin cebirsel degismezleri, Ondokuz Mayıs Üniversitesi, Fen Bilimleri Enstitüsü, Matematik, 2002

Research Areas

Mathematics, Geometry, Natural Sciences

Academic Titles / Tasks

Professor, Yıldız Technical University, Faculty Of Education, Department Of Mathematics And Science Education, 2025 - Continues

Associate Professor, Yıldız Technical University, Faculty Of Education, Department Of Mathematics And Science Education, 2019 - 2025

Assistant Professor, Yıldız Technical University, Faculty Of Education, Department Of Mathematics And Science Education, 2018 - 2019

Assistant Professor, Yıldız Technical University, Faculty Of Education, Department Of Mathematics And Science Education, 2011 - 2018

Assistant Professor, Sinop University, Faculty Of Education, Department Of Primary School, 2010 - 2011

Research Assistant, Ondokuz Mayıs University, Institute Of Science, Matematik, 1999 - 2002

Academic and Administrative Experience

Deputy Head of Department, Yildiz Technical University, Faculty Of Education, Department Of Mathematics And Science Education, 2023 - Continues
Sinop Üniversitesi, 2010 - 2011

Courses

Matematiğin Temelleri 1, Undergraduate, 2023 - 2024
Analitik Geometri, Undergraduate, 2023 - 2024
Öğretmenlik Uygulaması 1, Undergraduate, 2023 - 2024
Analiz 3, Undergraduate, 2023 - 2024
Analiz 1, Undergraduate, 2023 - 2024
Okul Deneyimi, Undergraduate, 2017 - 2018, 2016 - 2017
Genel Matematik, Undergraduate, 2017 - 2018, 2015 - 2016
Analitik Geometri 1, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016
Genel Matematik 1, Undergraduate, 2016 - 2017
Analitik Geometri 2, Undergraduate, 2016 - 2017, 2015 - 2016
Matematiksel Oyunlar, Undergraduate, 2016 - 2017
Topluma Hizmet Uygulamaları, Undergraduate, 2016 - 2017, 2015 - 2016
Genel Matematik 2, Undergraduate, 2016 - 2017
Geometri, Undergraduate, 2015 - 2016

Supervised Theses

Uyar Düldül B., THE INVESTIGATION OF GIFTED STUDENTS' PROCESSES OF CREATING KNOWLEDGE ABOUT THE CIRCLE AND CLOSED DISC WITH THE RBC+C MODEL, Postgraduate, Ş.GÜR(Student), 2024
Uyar Düldül B., The Effect of Teaching the Subject of Algebraic Expressions and Identities with Rebus Activities on the Academic Achievement, Mathematics Attitudes and Knowledge Retention of 8th Grade Students, Postgraduate, R.YILDIRIM(Student), 2024

Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, İstanbul Gelişim Üniversitesi, September, 2024
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, İstanbul Gelişim Üniversitesi, September, 2024
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, İstanbul Gelişim Üniversitesi, October, 2023
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, İstanbul Gelişim Üniversitesi, September, 2023
Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, July, 2023
Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, June, 2023
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, İstanbul Gelişim Üniversitesi, September, 2022
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Trakya Üniversitesi, September, 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **On some new frames along a space curve and integral curves with Darboux q -vector fields in E^3**
Uyar Düldül B.
AIMS MATHEMATICS, vol.9, no.7, pp.17871-17885, 2024 (SCI-Expanded)
- II. **Derivation of slant helices on a given surface through new approaches**
Duldul B. U., DÜLDÜL M.
APPLIED MATHEMATICS AND COMPUTATION, vol.366, 2020 (SCI-Expanded)
- III. **Extended Darboux frame curvatures of Frenet curves lying on parametric 3-surfaces**
UYAR DÜLDÜL B., DÜLDÜL M.
KUWAIT JOURNAL OF SCIENCE, vol.46, no.1, pp.15-23, 2019 (SCI-Expanded)
- IV. **A New Method for Finding the Shape Operator of a Hypersurface in Euclidean 4-Space**
Duldul B. U.
FILOMAT, vol.32, no.17, pp.5827-5836, 2018 (SCI-Expanded)
- V. **Extension of the Darboux frame into Euclidean 4-space and its invariants**
DÜLDÜL M., Duldul B. U., Kuruoglu N., Ozdamar E.
TURKISH JOURNAL OF MATHEMATICS, vol.41, no.6, pp.1628-1639, 2017 (SCI-Expanded)
- VI. **Differential geometry of non-transversal intersection curves of three implicit hypersurfaces in Euclidean 4-space**
ALESSIO O., DÜLDÜL M., Duldul B. U., ABDEL-ALL N. H., BADR S. A.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.308, pp.20-38, 2016 (SCI-Expanded)
- VII. **Can we find Willmore-like method for the tangential intersection problems?**
Duldul B., DÜLDÜL M.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.302, pp.301-311, 2016 (SCI-Expanded)
- VIII. **Non-transversal intersection curves of hypersurfaces in Euclidean 4-space**
BADR S. A., ABDEL-ALL N. H., ALESSIO O., DÜLDÜL M., Duldul B. U.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.288, pp.81-98, 2015 (SCI-Expanded)
- IX. **Differential geometry of non-transversal intersection curves of three parametric hypersurfaces in Euclidean 4-space**
Alessio O., DÜLDÜL M., Duldul B., Badr S. A., Abdel-All N. H.
COMPUTER AIDED GEOMETRIC DESIGN, vol.31, no.9, pp.712-727, 2014 (SCI-Expanded)
- X. **The extension of Willmore's method into 4-space**
Duldul B., DÜLDÜL M.
MATHEMATICAL COMMUNICATIONS, vol.17, no.2, pp.423-431, 2012 (SCI-Expanded)

Articles Published in Other Journals

- I. **Constructing Some New Frames and Associated Curves Using the Darboux Vector Fields of the Flc-Frame**
Uyar Düldül B.
JOURNAL OF SCIENCE AND ARTS, vol.70, no.1, pp.1, 2025 (ESCI)
- II. **New Vector Fields and Planes Obtained by the Extended Darboux Frame Apparatus of the Second Kind**
Uyar Düldül B.
WSEAS TRANSACTIONS ON MATHEMATICS, vol.24, pp.8-15, 2025 (Scopus)
- III. **On the geodesic curves of constant breadth according to the extended Darboux frame**
Uyar Düldül B.
JOURNAL OF SCIENCE AND ARTS, vol.69, no.4, pp.823-832, 2024 (ESCI)
- IV. **Characterizations of helices by using their Darboux vectors**
Düldül M., Uyar Düldül B.
Sigma Journal of Engineering and Natural Sciences, vol.38, no.3, pp.1299-1306, 2020 (ESCI)
- V. **Shape Operator via Darboux Frame Curvatures and Its Applications**

- Duldul B. U., Düldül M.
INTERNATIONAL ELECTRONIC JOURNAL OF GEOMETRY, vol.12, no.2, pp.182-187, 2019 (ESCI)
- VI. **Smarandache Curves According to the Extended Darboux Frame in Euclidean 4-Space**
Uyar Düldül B.
Journal of Computer Science & Computational Mathematics, vol.9, no.2, pp.17-22, 2019 (Peer-Reviewed Journal)
- VII. **Some special Smarandache curves according to the extended Darboux frame in E41**
UYAR DÜLDÜL B.
Malaya Journal of Matematik, vol.7, pp.72-75, 2019 (Peer-Reviewed Journal)
- VIII. **Extended Darboux frame field in Minkowski space-time E^4_1**
UYAR DÜLDÜL B.
Malaya Journal of Matematik, vol.6, pp.473-477, 2018 (Peer-Reviewed Journal)
- IX. **Curvatures of implicit hypersurfaces in Euclidean 4-space**
UYAR DÜLDÜL B.
İĞDIR ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, no.1, pp.229-236, 2018 (Peer-Reviewed Journal)
- X. **SOME INTEGRAL CURVES ASSOCIATED WITH A TIMELIKE FRENET CURVE IN MINKOWSKI 3-SPACE**
Duldul B.
HONAM MATHEMATICAL JOURNAL, vol.39, no.4, pp.603-616, 2017 (ESCI)
- XI. **On the geodesic torsion of a tangential intersection curve of two surfaces in R^3**
Uyar Düldül B., Çalışkan M.
ACTA MATHEMATICA UNIVERSITATIS COMENIANAE, vol.82, pp.177-189, 2013 (ESCI)
- XII. **Spacelike intersection curve of threespacelike hypersurfaces in E^4_1**
Uyar Düldül B., Çalışkan M.
Annales UMCS, vol.67, pp.23-33, 2013 (Peer-Reviewed Journal)
- XIII. **The geodesic curvature and geodesic torsion of the intersection curve of two surfaces**
UYAR DÜLDÜL B., ÇALIŞKAN M.
Acta Universitatis Apulensis, vol.24, pp.161-172, 2010 (Peer-Reviewed Journal)
- XIV. **On the properties of $k=1$ dimensional timelike ruled surfaces with the space like generating space in the Minkowski space $R^{n,1}$**
Can S., Uyar B., Aydemir İ.
MATHEMATICAL AND COMPUTATIONAL APPLICATIONS, vol.9, no.3, pp.393-398, 2004 (Scopus)
- XV. **On the minimality and total developability of the time like ruled surfaces with the time like generating space in the Minkowski space $R^{n,1}$**
CAN S., UYAR B., AYDEMİR İ.
International Journal of Differential Equations and Applications, vol.7, pp.339-348, 2003 (Peer-Reviewed Journal)
- XVI. **Hyperruled surfaces with the time like generating space in the Minkowski space $R^{n,1}$**
UYAR B., CAN S., AYDEMİR İ.
International Journal of Applied Mathematics, vol.14, pp.125-133, 2003 (Scopus)
- XVII. **On the algebraic invariants of shape operator of semi hyperruled surfaces in the semi Euclidean n space $R^{n,v}$**
UYAR B., KURUOĞLU N.
International Journal of Applied Mathematics, vol.14, pp.57-67, 2003 (Scopus)
- XVIII. **On the properties of time like hyperruled surfaces with the space like generating space in the Minkowski space $R^{n,1}$**
UYAR B., CAN S., AYDEMİR İ.
International Journal of Applied Mathematics, vol.14, pp.41-49, 2003 (Scopus)
- XIX. **On the algebraic invariants of shape operator of space like hyperruled surfaces with the space like generating space in the Minkowski space $R^{n,1}$**
UYAR B., CAN S., KURUOĞLU N.
International Journal of Applied Mathematics, vol.10, pp.159-166, 2002 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **An Investigation Of The Effect Of Using Animation In Algebra Learning Area On Students' Academic Achievement And Attitudes**
Turan G., Uyar Düldül B.
ISARC 4th International Black Sea Scientific Research and Innovation Congress, Trabzon, Turkey, 8 - 09 February 2025, pp.115-117
- II. **Examination Of Gifted Students' Abstraction Processes About Circle And Disc Using The RBC+C Model**
Gür E. Ş., Uyar Düldül B.
ISARC 9. International Palandöken Scientific Studies Congress, Erzurum, Turkey, 21 - 22 September 2024, pp.77-78
- III. **The Effect Of Teaching The Topic "Operations With Fractions" With History Of Mathematics Supported Activities On Student Achievement**
Ateş N., Uyar Düldül B.
1. International Üsküdar Scientific Researc And Innovation Congress, İstanbul, Turkey, 19 - 20 July 2024, pp.618-619
- IV. **8. Sınıf Öğrencilerinin Cebirsel İfadeler ve Özdeşlikler Konusunun Resfebe Etkinlikleri İle İşlenmesine Yönelik Görüşleri**
Yıldırım R. M., Uyar Düldül B.
4. Uluslararası Eğitimde Mükemmellik Kongresi(IEXCEL), Aydın, Turkey, 24 - 26 May 2024, pp.33
- V. **Matematik Tarihinin Matematik Dersine Yansıması:Sistersiyen Sayı Sistemi**
Kaya E. S., Uyar Düldül B.
YTÜ Fen Edebiyat Fakültesi 2209A/B Fen ve Matematik Öğrenci Çalıştayı, İstanbul, Turkey, 24 May 2024, pp.103
- VI. **Geometrik Cisimlerin Kavratılmasında Somut Materyal Kullanımının Etkisi**
Uyar G., Uyar Düldül B.
14. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, Burdur, Turkey, 19 - 21 May 2021, pp.27
- VII. **Shape Operator Along a Surface Curve and Its Applications**
UYAR DÜLDÜL B., DÜLDÜL M.
16th International Geometry Symposium, Manisa, Turkey, 04 July 2018, pp.294
- VIII. **Torsion of the tangential intersection curve of two surfaces by using Rodrigues' rotation formula**
UYAR DÜLDÜL B.
International Congress On Mathematics Statistics And Analytical Methods, İstanbul, Turkey, 02 March 2018, pp.77-78
- IX. **Associated curves with a timelike Frenet curve in Minkowski 3- space**
UYAR DÜLDÜL B.
International Conference on Mathematics and Engineering, İstanbul, Turkey, 10 May 2017, pp.425
- X. **İki yüzeyin tegetsel arakesit egrisinin jeodezikburulması üzerine**
Uyar Düldül B., Çalışkan M.
13. Geometri Sempozyumu, İstanbul, Turkey, 27 - 30 July 2015, pp.1
- XI. **Spacelike intersection curve of three spacelike hypersurfaces in E^4_1**
Uyar Düldül B., Çalışkan M.
International conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 8 - 12 June 2015, pp.66
- XII. **İki yüzeyin arakesit egrisinin geodezik egriligi ve geodezik burulması**
Uyar Düldül B., Çalışkan M.
9. Geometri Sempozyumu, Samsun, Turkey, 07 June 2011, pp.1

Supported Projects

Uyar Düldül B., Gür E. Ş., Project Supported by Higher Education Institutions, Üstün Yetenekli Öğrencilerin Çember ve Daire Konusuna İlişkin Bilgi Oluşturma Süreçlerinin RBC+C Modeli İle İncelenmesi, 2024 - 2025

Uyar Düldül B., Kaya E. S., TUBITAK Project, Matematik Tarihinin Matematik Dersine Yansıması: Sistersiyen Sayı Sistemi, 2024 - 2024

Uyar Düldül B., Kısa R., TUBITAK Project, Kendoku Oynuyorum, Çarpanlar ve Katlardan Korkmuyorum, 2023 - 2024

Uyar Düldül B., Soysal N. H., TUBITAK Project, Veri Analizi Konusunun Öğrencilerin Topladığı Veriler İle Anlatımının Öğrenci Başarısına Etkisi, 2021 - 2022

Uyar Düldül B., Uyar G., TUBITAK Project, Geometrik Cisimlerin Kavratılmasında Somut Materyal Kullanımının Etkisi, 2020 - 2021

Düldül M., Uyar Düldül B., Kuruoğlu N., Özdamar E., Project Supported by Higher Education Institutions, Darboux Çatı Alanının 4-Boyuta Genişletilmesi Ve İnvaryantlarının Değerlendirilmesi Çalışması, 2013 - 2017

Scientific Refereeing

Project Supported by Higher Education Institutions, BAP Research Project, Kocaeli University, Turkey, January 2023
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, July 2021

Tasks In Event Organizations

Aydoğdu İ., Yüce S., Gürses N., Köklü K., UYAR DÜLDÜL B., 13. Geometri Sempozyumu, Scientific Congress, İstanbul, Turkey, Temmuz 2015

Metrics

Publication: 41

Citation (WoS): 36

Citation (Scopus): 31

H-Index (WoS): 5

H-Index (Scopus): 5

Congress and Symposium Activities

ISARC 9. International Palandöken Scientific Studies Congress, Attendee, Erzurum, Turkey, 2024

1. International Üsküdar Scientific Researc And Innovation Congress, Attendee, İstanbul, Turkey, 2024

4. Uluslararası Eğitimde Mükemmellik Kongresi(IEXCEL), Attendee, Aydın, Turkey, 2024

YTÜ Fen Edebiyat Fakültesi 2209A/B Fen ve Matematik Öğrenci Çalıştayı, Attendee, İstanbul, Turkey, 2024

14. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, Attendee, Burdur, Turkey, 2021

16 th International Geometry Symposium, Attendee, Manisa, Turkey, 2018

International Congress On Mathematics Statistics And Analytical Methods, Attendee, Turkey, 2018

International Conference on Mathematics and Engineering, Attendee, Turkey, 2017

13. Geometri Sempozyumu, Attendee, Turkey, 2015

International Conference on Applied Analysis and Mathematical Modeling, Attendee, Turkey, 2015

9. Geometri Sempozyumu, Attendee, Turkey, 2011

VI. Ulusal Geometri Sempozyumu, Attendee, Turkey, 2008

IV. International Geometry Symposium, Attendee, Turkey, 2006

Awards

UYAR DÜLDÜL B., YTÜ Yayın Teşvik Ödülü, YTÜ Akademik Ödül Töreni, February 2015

UYAR DÜLDÜL B., YTÜ Yayın Teşvik Ödülü, YTÜ Akademik Ödül Töreni, February 2014

UYAR DÜLDÜL B., YTÜ Yayın Teşvik Ödülü, YTÜ Akademik Ödül Töreni, February 2012

Non Academic Experience

Sinop Teknik ve Endüstri Meslek Lisesi, Öğretmen

Çarşamba Pansiyonlu Yeşilirmak Lisesi, Öğretmen