

# Prof. HACI BAYRAM KARADAĞ

## Personal Information

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## International Researcher IDs

ORCID: 0000-0001-6474-877X

Publons / Web Of Science ResearcherID: ABH-7639-2020

Yoksis Researcher ID: 27229

## Education Information

Doctorate, Inonu University, Fen-Bilimleri Enstitüsü, Matematik, Geometri Anabilim Dalı, Turkey 1989 - 1994

Postgraduate, Inonu University, Fen-Bilimleri Enstitüsü, Matematik, Geometri Anabilim Dalı, Turkey 1987 - 1989

Undergraduate, Inonu University, Fen-Edebiyat Fakültesi, Matematik, Turkey 1982 - 1986

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, Kapalı Küresel Eğriler ve Jacobi Teoremleri Üzerine, Inonu University, Fen-Edebiyat Fakültesi, Matematik, Geometri Anabilim Dalı, 1994

Postgraduate, Altmanifoldların Diferensiyel Geometrisi ve Kinematığı üzerine, Inonu University, Fen-Edebiyat Fakültesi, Matematik, Geometri Anabilim Dalı, 1989

## Research Areas

Mathematics, Differential Geometry, Natural Sciences

## Academic Titles / Tasks

Professor, Inonu University, Fen-Edebiyat Fakültesi, Matematik, 2013 - Continues

Associate Professor, Inonu University, Fen-Edebiyat Fakültesi, Matematik, 2009 - 2013

Assistant Professor, Inonu University, Fen-Edebiyat Fakültesi, Matematik, 1994 - 2009

Research Assistant, Inonu University, Fen-Edebiyat Fakültesi, Matematik, 1987 - 1994

## Academic and Administrative Experience

Inonu University, Fen-Edebiyat Fakültesi, Matematik, 2017 - Continues  
Inonu University, Fen-Edebiyat Fakültesi, Matematik, 2017 - Continues  
Inonu University, Fen-Edebiyat Fakültesi, Matematik, 2016 - Continues  
Inonu University, Fen-Edebiyat Fakültesi, Matematik, 2008 - Continues  
Inonu University, Sürgü Meslek Yüksekokulu, 2014 - 2015  
Inonu University, Fen-Edebiyat Fakültesi, Matematik, 2010 - 2013

## Courses

Genel Matematik, Associate Degree, 2020-2021  
Dönüşümler ve Geometriler, Undergraduate, 2020-2021  
Uzay kinematikleri ve Lie Grupları, Undergraduate Minor, 2020-2021  
Genel Matematik I, II, Undergraduate, 2013-2014  
Diferensiyel Geometri I, II, Undergraduate, 2013-2014  
Semi-Riemann Geometri, Undergraduate Minor, 2013-2014  
Genel Matematik I, II, Undergraduate, 2012-2013  
Altmanifoldların Diferensiyel Geomtrisi, Undergraduate Minor, 2012-2013  
İstatistik, Undergraduate, 2012-2013  
Diferensiyel Geometri I, II, Undergraduate, 2012-2013  
Diferensiyellenebilir Manifoldlar, Undergraduate Minor, 2012-2013  
Diferensiyellenebilir Manifoldlar I, II, Undergraduate Minor, 2011-2012  
Diferensiyel Geometri I, II, Undergraduate, 2011-2012  
Genel Matematik I, II, Undergraduate, 2011-2012  
Mesleki Matematik, Undergraduate, 2011-2012  
Genel Matematik I, II, Undergraduate, 2010-2011  
Tensör Geometri, Undergraduate Double Major, 2010-2011  
Diferensiyel Geometri I, II, Undergraduate, 2010-2011  
Genel Matematik I, II, Undergraduate, 2009-2010  
Diferensiyel Geometri I, II, Undergraduate, 2009-2010  
Altmanifoldların Diferensiyel Geometrisi, Undergraduate Minor, 2009-2010

## Advising Theses

Karadağ H. B., Yoğunluklu eğriler ve yüzeylerin bazı karakterizasyonları, Doctorate, M.ALtin(Student), 2019  
KARADAĞ H. B., Tanjant Demetler Üzerinde Cheeger-Gromoll Metrikli Bazı Yapılar, Doctorate, A.Kazan(Student), 2015  
KARADAĞ H. B., Minkowski 3-Uzayında Eğriler ve Yüzeylerin Geometrisi, Postgraduate, A.Kazan(Student), 2011  
KARADAĞ H. B., Lorentz Yüzeylerinin Diferensiyel Geometrisi Üzerine, Postgraduate, İ.Tanrıverdi(Student), 2003

## Jury Memberships

Associate Professor Exam, Doçentlik Sınavı Jurisi, Üniversiteler Arası Kurum, April, 2015

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Nonnull Curves with Constant Weighted Curvature in Lorentz-Minkowski Plane with Density**  
Altin M., Kazan A., KARADAĞ H. B.  
TURKISH JOURNAL OF MATHEMATICS, vol.44, no.2, pp.588-610, 2020 (SCI-Expanded)
- II. **Erratum to Paracontact Tangent Bundles with Cheeger Gromoll Metric**

- KAZAN A., KARADAĞ H. B.  
MEDITERRANEAN JOURNAL OF MATHEMATICS, vol.13, no.2, pp.883-884, 2016 (SCI-Expanded)
- III. **LOCALLY DECOMPOSABLE GOLDEN RIEMANNIAN TANGENT BUNDLES WITH CHEEGER-GROMOLL METRIC**  
Kazan A., KARADAĞ H. B.  
MISKOLC MATHEMATICAL NOTES, vol.17, no.1, pp.399-411, 2016 (SCI-Expanded)
- IV. **Paracontact Tangent Bundles with Cheeger-Gromoll Metric**  
Kazan A., KARADAĞ H. B.  
MEDITERRANEAN JOURNAL OF MATHEMATICS, vol.12, no.2, pp.497-523, 2015 (SCI-Expanded)
- V. **On the developable ruled surfaces Kinematically generated in Minkowski 3-Space**  
KARADAĞ H. B., KILIÇ E., ADAG M.  
KUWAIT JOURNAL OF SCIENCE, vol.41, no.1, pp.21-34, 2014 (SCI-Expanded)
- VI. **Invariant submanifolds of Sasakian manifolds**  
KARADAĞ H. B., Atceken M.  
BALKAN JOURNAL OF GEOMETRY AND ITS APPLICATIONS, vol.12, no.1, pp.68-75, 2007 (SCI-Expanded)
- VII. **Lighthlike ruled surfaces in  $R^{-1}(4)$**   
Kihc E., KARADAĞ H. B.  
BALKAN JOURNAL OF GEOMETRY AND ITS APPLICATIONS, vol.11, no.2, pp.88-100, 2006 (SCI-Expanded)
- VIII. **On the integral invariants of kinematically generated ruled surfaces**  
Karadag H. B., Keles S.  
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE, vol.29, pp.455-470, 2005 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Monge Hypersurfaces in Euclidean 4-Space with Density**  
Altın M., Kazan A., KARADAĞ H. B.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.23, no.1, pp.207-214, 2020 (ESCI)
- II.  **$e^{ax+by}$  Yoğunluklu  $E^3_1$  Uzayında Sıfır Ağırlıklı Eğriliğe Sahip Null Olmayan Düzlemsel Eğrilerin Oluşturduğu Yüzeyler**  
Altın M., Kazan A., KARADAĞ H. B.  
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, no.1, pp.45-55, 2020 (Peer-Reviewed Journal)
- III. **Ruled Surfaces Constructed by Planar Curves in Euclidean 3-Space with Density**  
Altın M., Kazan A., KARADAĞ H. B.  
Celal Bayar University Journal of Science, vol.16, no.1, pp.81-88, 2020 (Peer-Reviewed Journal)
- IV. **Rotational Surfaces Generated by Cubic Hermitian and Cubic Bezier Curves**  
Gunduz H., Kazan A., KARADAĞ H. B.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.22, no.4, pp.1075-1082, 2019 (ESCI)
- V. **RULED SURFACES IN  $E^3$  WITH DENSITY**  
Altın M., Kazan A., KARADAĞ H. B.  
HONAM MATHEMATICAL JOURNAL, vol.41, no.4, pp.683-695, 2019 (ESCI)
- VI. **Ruled Surfaces in  $E^3$  with Density**  
Altın M., Kazan A., KARADAĞ H. B.  
HONAM MATHEMATICAL JOURNAL, vol.41, no.4, pp.683-695, 2019 (ESCI)
- VII. **Rotational surfaces generated by cubic Hermitian and cubic Bezier curves**  
Gündüz H., Kazan A., KARADAĞ H. B.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.22, no.4, pp.1075-1082, 2019 (Peer-Reviewed Journal)
- VIII. **A study on self-similar surfaces**  
Altın M., KARADAĞ M., KARADAĞ H. B.  
Mathematics in Natural Science, vol.4, pp.37-44, 2019 (Peer-Reviewed Journal)

- IX. **Embankment Surfaces in Euclidean 3-Space and Their Visualizations**  
Kazan A., KARADAĞ H. B.  
COMMUNICATIONS IN MATHEMATICS AND APPLICATIONS, vol.10, no.3, pp.617-636, 2019 (ESCI)
- X. **NORMAL RULED SURFACES OF A SURFACE ALONG A CURVE IN EUCLIDEAN 3-SPACE E-3**  
Abdel-Baky R. A., Nazra S. H.  
INTERNATIONAL JOURNAL OF ANALYSIS AND APPLICATIONS, vol.17, no.4, pp.559-577, 2019 (ESCI)
- XI. **ROTATIONAL SURFACES GENERATED BY PLANAR CURVES IN E-3 WITH DENSITY**  
Altin M., Kazan A., KARADAĞ H. B.  
INTERNATIONAL JOURNAL OF ANALYSIS AND APPLICATIONS, vol.17, no.3, pp.311-328, 2019 (ESCI)
- XII. **TRANS-SASAKIAN MANIFOLDS WITH RESPECT TO GENERALIZED TANAKA-WEBSTER CONNECTION**  
Kazan A., KARADAĞ H. B.  
HONAM MATHEMATICAL JOURNAL, vol.40, no.3, pp.487-508, 2018 (ESCI)
- XIII. **MAGNETIC NON-NULL CURVES ACCORDING TO PARALLEL TRANSPORT FRAME IN MINKOWSKI 3-SPACE**  
KAZAN A., KARADAĞ H. B.  
Commun.Fac.Sci.Univ.Ank.Series A1, no.67, pp.147-160, 2018 (Peer-Reviewed Journal)
- XIV. **Magnetic Non-Null Curves According to Parallel Transport Frame in Minkowski 3-Space**  
KAZAN A., KARADAĞ H. B.  
Commun. Fac. Sci. Univ. Ank. Ser. A1, vol.67, pp.147-160, 2018 (Peer-Reviewed Journal)
- XV. **MAGNETIC NON-NULL CURVES ACCORDING TO PARALLEL TRANSPORT FRAME IN MINKOWSKI 3-SPACE**  
Kazan A., KARADAĞ H. B.  
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.67, no.1, pp.147-160, 2018 (ESCI)
- XVI. **WEIGHTED MINIMAL AND WEIGHTED FLAT SURFACES OF REVOLUTION IN GALILEAN 3-SPACE WITH DENSITY**  
Kazan A., KARADAĞ H. B.  
INTERNATIONAL JOURNAL OF ANALYSIS AND APPLICATIONS, vol.16, no.3, pp.414-426, 2018 (ESCI)
- XVII. **Magnetic Curves According to Bishop Frame and Type-2 Bishop Frame in Euclidean 3-Space**  
KAZAN A., KARADAĞ H. B.  
British Journal of Mathematics & Computer Science, vol.22, pp.1-18, 2017 (Peer-Reviewed Journal)
- XVIII. **Twisted Surfaces in the Pseudo-Galilean Space**  
KAZAN A., KARADAĞ H. B.  
Biska, vol.5, pp.72-79, 2017 (Peer-Reviewed Journal)
- XIX. **2-Magnetic Curves in Euclidean 3-Space**  
KAZAN A., KARADAĞ H. B.  
Theoretical Mathematics & Applications, vol.7, pp.15-28, 2017 (Peer-Reviewed Journal)
- XX. **Magnetic Pseudo Null and Magnetic Null Curves in Minkowski 3-Space**  
KAZAN A., KARADAĞ H. B.  
International Mathematical Forum, vol.12, pp.119-132, 2017 (Peer-Reviewed Journal)
- XXI. **Paracontact Finsler Structures on Vector Bundles**  
KAZAN A., KARADAĞ H. B.  
British Journal of Mathematics&Computer Science, vol.4, pp.3403-3426, 2014 (Peer-Reviewed Journal)
- XXII. **Rotation Surfaces in 4-Dimensional Pseudo-Euclidean Spaces**  
KAZAN A., KARADAĞ H. B.  
International Journal of Innovation in Science and Mathematics, vol.2, no.2, pp.264-269, 2014 (Peer-Reviewed Journal)
- XXIII. **Surfaces of Revolution in Minkowski 3-Space Satisfying  $\Gamma_{11,1}(G)=k(G+C)$**   
KAZAN A., KARADAĞ H. B.  
Journal of Mathematics and System Science, vol.3, pp.567-572, 2013 (Peer-Reviewed Journal)
- XXIV. **Rotation Surfaces Generated by Planar Profile Curves with Constant Curvature in E3,1**

- KARADAĞ H. B., KAZAN A.  
Theoretical Mathematics&Applications, vol.3, pp.47-68, 2013 (Peer-Reviewed Journal)
- XXV. **A Classification of Surfaces of Revolution in Lorentz-Minkowski Space**  
KAZAN A., KARADAĞ H. B.  
International Journal of Contemporary Mathematical Sciences, vol.6, pp.1915-1928, 2011 (Peer-Reviewed Journal)
- XXVI. **CLASSIFICATION OF LIGHTLIKE RULED SURFACES IN LORENTZIAN 3-SPACE**  
KARADAĞ H. B., KILIÇ E., KARADAĞ M.  
Oriental J. Math, vol.2, no.1, pp.17-37, 2010 (Peer-Reviewed Journal)
- XXVII. **SPECIAL NULL CURVES ON THE RULED SURFACES IN THE MINKOWSKI 3-SPACES**  
KILIÇ E., KARADAĞ H. B., KARADAĞ M.  
INDIAN JOURNAL OF MATHEMATICS, vol.51, no.1, pp.1-14, 2009 (Scopus)
- XXVIII. **Coisotropic Submanifolds of a Semi-Riemannian Manifold**  
KILIÇ E., SAHİN B., KARADAĞ H. B., GÜNEŞ R.  
Turkish J Math, vol.28, pp.335-352, 2004 (Peer-Reviewed Journal)

### **Refereed Congress / Symposium Publications in Proceedings**

- I. **Generalized Trigonometric B-Spline and Nurbs Curves and Surfaces with shape parameters**  
GÜNDÜZ H., KARADAĞ M., KARADAĞ H. B.  
18th International Geometry Symposium July 12-13, 2021, Inonu University, Malatya-TURKEY, Malatya, Turkey, 12 July 2021
- II. **Yoğunluklu Dönel Yüzeyler Üzerine**  
Altın M., Kazan A., KARADAĞ H. B.  
III. Uluslararası Battalgazi Bilimsel Çalışmalar Kongresi, Malatya, Turkey, 21 - 23 September 2019, pp.160-166
- III. **Yoğunluklu Uzaylarda Weingarten Yüzeyler Üzerine**  
Altın M., Kazan A., KARADAĞ H. B.  
III. Uluslararası Battalgazi Bilimsel Çalışmalar Kongresi, Malatya, Turkey, 21 - 23 September 2019, pp.167-172
- IV. **Some Characterizations of Curves in Spaces \vith Density**  
ALTIN M., KARADAĞ M., KARADAĞ H. B.  
16th International Geometry Symposium July 4-7, 2018 Manisa Celal Bayar University, Manisa-TURKEY, Manisa, Turkey, 04 July 2018
- V. **Self-Similar Surfaces in four-Dimension Euclidean Space**  
ALTIN M., KARADAĞ M., KARADAĞ H. B.  
3rd INTERNATIONAL CONFERENCE ON COMPUTATIONAL MATHEMATICS AND ENGINEERING SCIENCES - (CMES-2018) 04-06 May 2018, Girne, CYPRUS (Turkish Republic of Northern Cyprus), Girne, Cyprus (Kktc), 04 June 2018
- VI. **CLASSIFICATION OF DEGENERATE RULED SURFACES IN MINKOWSKI 3-SPACE**  
KARADAĞ H. B., KARADAĞ M., KELEŞ S.  
IV International Geometry Symposium, Zonguldak, Turkey, 17 July 2006
- VII. **ON THE INTEGRAL INVARIANTS AND THE ABNORMALITY OF CONGRUENCES OBTAINED KINEMATICALLY**  
KARADAĞ H. B., KARADAĞ M., KELEŞ S.  
XIV. Ulusal Matematik Sempozyumu, Eskişehir, Turkey, 19 September 2001

### **Supported Projects**

KARADAĞ H. B., ALTIN M., Project Supported by Higher Education Institutions, Yoğunluklu Eğriler ve Yüzeylerin Bazı Karakterizasyonları, 2018 - 2020

## Metrics

Publication: 48

Citation (WoS): 20

Citation (Scopus): 8

H-Index (WoS): 3

H-Index (Scopus): 2

## Congress and Symposium Activities

On Magnetic Curves with respect to Type-2 Bishop Frame in E3 (Poster Bildiri), Attendee, Nevşehir, Turkey, 2017

On Spacelike Magnetic Curves with respect to Bishop Frame in E3,1, Attendee, Nevşehir, Turkey, 2017

2-Magnetic Curves in E3, Attendee, Mersin, Turkey, 2017

Magnetic Pseudo-Null Curves in E3,1, Attendee, Şanlıurfa, Turkey, 2017

Magnetic Null Curves in E3,1 (Poster Bildiri), Attendee, Şanlıurfa, Turkey, 2017

Twisted Surfaces in G1,3, Attendee, Mersin, Turkey, 2017

On Golden Riemannian Tangent Bundles with C-G Metric, Attendee, Denizli, Turkey, 2016

On Golden Shaped Rotation Surfaces in Minkowski 3-Space, Attendee, Elazığ, Turkey, 2016

Two Classifications for Para-Sasakian Finsler Manifolds (Poster Bildiri), Attendee, Niğde, Turkey, 2015

Para-Sasakian Finsler Structures on Vector Bundles, Attendee, Niğde, Turkey, 2015

On Curvatures of Para-Sasakian Finsler Structures, Attendee, Niğde, Turkey, 2015

Rotation Surfaces in 4-Dimensional Pseudo-Euclidean Spaces, Attendee, Bilecik, Turkey, 2014

Surfaces of Revolution in Minkowski 3-Space Satisfying  $\Gamma_{11,1}(G)=k(G+C)$ , Attendee, Diyarbakır, Turkey, 2013

CMC and CGC Surfaces of Revolution in Minkowski 3-Space, Attendee, Ordu, Turkey, 2013

Rotation Surfaces whose Profile Curves are Planar and with Constant Curvature in E3,1, Attendee, Samsun, Turkey, 2011

A Classification of Surface of Revolution about Spacelike and Timelike Axis by means of  $\Gamma_{11,1}$  Christoffel Component, Attendee, Antalya, Turkey, 2010

## Non Academic Experience

İnönü üniversitesi