

Assoc. Prof. SEMRA KAYA

Personal Information

Office Phone: [+90 276 221 2121](tel:+902762212121) Extension: 2530

Email: semra.kaya@usak.edu.tr

Web: <https://avesis.usak.edu.tr/semra.kaya>

International Researcher IDs

ORCID: 0000-0001-6473-4458

Yoksis Researcher ID: 53938

Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 2006 - 2011

Postgraduate, Ankara University, Fen Fakültesi, Matematik Bölümü, Turkey 2003 - 2006

Undergraduate, Ankara University, Fen Fakültesi, Matematik Bölümü, Turkey 1999 - 2003

Dissertations

Doctorate, Farklı geometrilere Möbius transformasyonları ve hareketler, Ankara University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2011

Postgraduate, Möbius transformasyonların geometrisi, Ankara University, Fen Fakültesi, Matematik Bölümü, 2006

Research Areas

Algebraic Geometry, Differential Geometry, Geometry

Academic Titles / Tasks

Associate Professor, Usak University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2016 - Continues

Assistant Professor, Usak University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2011 - 2016

Research Assistant, Ankara University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2009 - 2011

Research Assistant, Usak University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2009 - 2009

Academic and Administrative Experience

Usak University, 2016 - 2018

Usak University, 2011 - 2016

Courses

Lisans Tezi I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

Hareket Geometrisi I, Doctorate, 2023 - 2024
Kuaterniyonlar Teorisi, Postgraduate, 2023 - 2024
Riemann Geometrisi I, Postgraduate, 2023 - 2024
Riemann Geometrisine Giriş, Doctorate, 2023 - 2024
Analitik Geometri I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2016 - 2017
Diferensiyel Geometri II, Undergraduate, 2022 - 2023, 2021 - 2022, 2014 - 2015
Lineer Cebir, Undergraduate, 2022 - 2023
Diferensiyel Geometri I, Undergraduate, 2022 - 2023, 2021 - 2022, 2016 - 2017
Analitik Geometri II, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
Lisans Tezi II, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012
Köprüde Gelen İlham Kuaterniyonlar, Undergraduate, 2020 - 2021
Genel Matematik, Undergraduate, 2020 - 2021
Uzmanlık Alan dersi I, Postgraduate, 2020 - 2021
Mesleki İngilizce I, Undergraduate, 2020 - 2021, 2012 - 2013
Uzmanlık Alan dersi II, Postgraduate, 2020 - 2021
Uzmanlık Alan dersi V, Doctorate, 2020 - 2021
Uzmanlık Alan dersi VI, Doctorate, 2020 - 2021
Matematik ve Sanat, Undergraduate, 2020 - 2021
Mesleki İngilizce II, Undergraduate, 2020 - 2021, 2013 - 2014, 2012 - 2013
Kuaterniyonlar Teorisi I, Postgraduate, 2019 - 2020, 2014 - 2015
Matematik II, Undergraduate, 2019 - 2020
Diferensiyellenebilir Manifoldlar I, Postgraduate, 2019 - 2020, 2014 - 2015
İşletme Matematiği II, Undergraduate, 2019 - 2020
İşletme Matematiği I, Undergraduate, 2019 - 2020
Matematik I, Undergraduate, 2019 - 2020
MATRİS TEORİSİ I, Undergraduate, 2016 - 2017
İSTATİSTİK I, Undergraduate, 2015 - 2016, 2014 - 2015
DİFERANSİYEL GEOMETRİ II, Undergraduate, 2015 - 2016
DİFERANSİYEL GEOMETRİ I, Undergraduate, 2015 - 2016
İSTATİSTİK II, Undergraduate, 2015 - 2016, 2014 - 2015
Matematik II (Kimya Müh.), Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013
Matematik I (Kimya Müh.), Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013
Matematik II (İnşaat Müh.), Undergraduate, 2014 - 2015
İleri Diferensiyel Geometri II, Doctorate, 2014 - 2015
Matematik I (İnşaat Müh.), Undergraduate, 2014 - 2015, 2013 - 2014
Hareket Geometrisi II, Doctorate, 2014 - 2015
Matematik I (Malzeme Bil. ve Nanoteknoloji Müh.), Undergraduate, 2014 - 2015
Matematik I (Makine Müh.), Undergraduate, 2013 - 2014
Kinematik I, Postgraduate, 2013 - 2014
Matematik I (Tekstil Müh.), Undergraduate, 2013 - 2014, 2012 - 2013
Soyut Matematik I, Undergraduate, 2013 - 2014
Matematik II (Tekstil Müh.), Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012
Çok Lineer Cebir I , Postgraduate, 2013 - 2014
Kinematik I , Undergraduate, 2013 - 2014, 2012 - 2013
Kinematik II, Undergraduate, 2012 - 2013, 2011 - 2012
Genel Matematik (Kamu Yönetimi Böl.), Undergraduate, 2011 - 2012

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Vector properties of geometric calculus**
Kaya Nurkan S., GÜRGİL İ., Kemal Karacan M.
Mathematical Methods in the Applied Sciences, vol.46, no.17, pp.17672-17691, 2023 (SCI-Expanded)
- II. **Electromagnetic curves and Rytov's law in the optical fiber with Maxwellian evolution via alternative moving frame**
NURKAN S., Ceyhan H., Özdemir Z., GÖK İ.
Revista Mexicana de Fisica, vol.69, no.6, 2023 (SCI-Expanded)
- III. **Surfaces with Constant Negative Curvature**
Nurkan S., GÜRGİL İ.
Symmetry, vol.15, no.5, 2023 (SCI-Expanded)
- IV. **Construction of vectorial moments via direction curves**
Nurkan S., Güven İ. A.
AIMS Mathematics, vol.8, no.6, pp.12857-12871, 2023 (SCI-Expanded)
- V. **Ordered Leonardo Quadruple Numbers**
Nurkan S., Güven İ. A.
Symmetry, vol.15, no.1, 2023 (SCI-Expanded)
- VI. **Characterizations of Adjoint Curves in Euclidean 3-Space**
Nurkan S., Güven İ. A., KARACAN M. K.
Proceedings of the National Academy of Sciences India Section A - Physical Sciences, vol.89, no.1, pp.155-161, 2019 (SCI-Expanded)
- VII. **A New Approach To Fibonacci, Lucas Numbers and Dual Vectors**
Güven İ. A., Nurkan S.
Advances in Applied Clifford Algebras, vol.25, no.3, pp.577-590, 2015 (SCI-Expanded)
- VIII. **Dual Fibonacci Quaternions**
Nurkan S., Güven İ. A.
Advances in Applied Clifford Algebras, vol.25, no.2, pp.403-414, 2015 (SCI-Expanded)
- IX. **Characterizations of timelike slant helices in Minkowski 3-space**
GÖK İ., Nurkan S., Ilarslan K., Kula L., Altinok M.
Mathematical Communications, vol.19, no.1, pp.119-138, 2014 (SCI-Expanded)

Articles Published in Other Journals

- I. **A new perspective on bicomplex numbers with Leonardo number components**
Turan M., Ozkaldi Karakus S., Kaya Nurkan S.
Communications Faculty of Sciences University of Ankara Series A1: Mathematics and Statistics, vol.72, no.2, pp.340-351, 2023 (ESCI)
- II. **Some Identities of Dual Mersenne Numbers**
NURKAN S., GÜRGİL İ.
Communications in Mathematics and Applications, vol.13, no.3, 2022 (Peer-Reviewed Journal)
- III. **Hyper-Dual Leonardo Numbers**
ÖZKALDI KARAKUŞ S., NURKAN S., turan m.
Konuralp Journal of Mathematics, 2022 (Peer-Reviewed Journal)
- IV. **A New Approach For Smarandache Curves**
Kaya Nurkan S., Güven İ.
Turkish Journal of Mathematics and Computer Science, vol.14, no.1, pp.155-165, 2022 (Peer-Reviewed Journal)
- V. **Adjoint Curve According to Modified Orthogonal Frame with Torsion in 3-Space**
ARIKAN M., NURKAN S.
Uşak University Journal of Science and Natural Sciences, vol.4, pp.54-64, 2020 (Peer-Reviewed Journal)
- VI. **Spherical Images of W-Direction Curves in Euclidean 3-Space**
GÜVEN İ., NURKAN S., İPEK A. T.

JOURNAL OF MATHEMATICS RESEARCH, 2020 (Peer-Reviewed Journal)

- VII. **Ruled surfaces in three dimensional lie groups**
Güven I. A., Nurkan S.
Journal of Mathematical and Computational Science, vol.10, no.4, pp.936-955, 2020 (Scopus)
- VIII. **Note on Bicomplex Matrices**
Ölçek C., Kaya Nurkan S.
Mathematical Sciences and Applications E-Notes, vol.6, no.2, pp.46-56, 2018 (Peer-Reviewed Journal)
- IX. **A Note on Bicomplex Fibonacci and Lucas Numbers**
NURKAN S., GÜVEN İ.
INTERNATIONAL JOURNAL OF PURE AND APPLIED MATHEMATICS, vol.291, no.3, pp.365-377, 2018 (Peer-Reviewed Journal)
- X. **Darboux rotation axis of a null curve in Minkowski 3-space**
NURKAN S., KARACAN M. K., TUNÇER Y.
J. Math. Comput. Sci., vol.6, no.5, pp.706-711, 2016 (Peer-Reviewed Journal)
- XI. **On Ruled Surfaces in Minkowski 3 Space**
TUNÇER Y., EKMEKÇİ F. N., NURKAN S., TUNÇER S.
International Journal of Mathematical Combinatorics, vol.2, pp.1-19, 2014 (Peer-Reviewed Journal)
- XII. **On pseudo null Bertrand curves in Minkowski space-time**
GÖK İ., Nurkan S., Ilarslan K.
Kyungpook Mathematical Journal, vol.54, no.4, pp.685-697, 2014 (Scopus)

Books & Book Chapters

- I. **A Special Curve-Pair Under the Mobius Transformation**
ÜNAL S., NURKAN S.
in: International Studies in Science and Mathematics, Akgül Hasan, Baba Hayri, İyit Neslihan, Editor, serüven, Uşak, pp.197-217, 2023

Refereed Congress / Symposium Publications in Proceedings

- I. **Adjoint Curve with Modified Orthogonal Frame**
NURKAN S., GÜVEN İ.
19th International Geometry Symposium, Turkey, 27 - 30 June 2022
- II. **Surfaces with Constant Negative Gaussian Curvature in The Simply Isotropic 3-Space**
NURKAN S., GÜRGİL İ., KARACAN M. K.
19th International Geometry Symposium, Edirne, Turkey, 27 - 30 June 2022
- III. **A New Type Of Dual Numbers**
GÜVEN İ., NURKAN S.
5th International Online Conference On Mathematics (ICOM-2021), 01 December 2021 - 03 December 2022
- IV. **Construction of Dual Direction Curves**
NURKAN S., GÜVEN İ.
10th International Eurasian Conf. On Math. Sciences and Applications (IECMSA-2021), Turkey, 25 - 27 August 2021
- V. **Integral Curves of Special Smarandache Curves**
NURKAN S.
18th International Geometry Symposium 2021, Turkey, 12 - 13 July 2021
- VI. **A Note on Bicomplex Matrices**
NURKAN S., DOLAŞIR S.
16th International Geometry Symposium, Turkey, 4 - 07 July 2018
- VII. **Twisted Surfaces in Isotropic 3-Space**

NURKAN S., GÜVEN İ., KARACAN M. K., DOLAŞIR S.

15th International Geometry Symposium, Amasya University, Amasya, Turkey, July 3-6 , 2017, 3 - 06 July 2017

- VIII. **Some Ruled Surfaces Related To W Direction Curves**
GÜVEN İ., NURKAN S., FİLİZ Ö.
14th International Geometry Symposium, Denizli, Turkey, 25 - 28 May 2016
- IX. **Matemathical Ratio in Painting**
GÜRSOY E., NURKAN S.
4th International Eurasian Conf. on Math. Sciences and Applications, 31 August - 03 September 2015
- X. **Bicomplex Fibonacci Numbers**
NURKAN S., GÜVEN İ.
4th International Eurasian Conf. on Math.Sciences and Applications, 31 August - 03 September 2015
- XI. **Mathematical Ratio in Painting**
GÜRSOY E., NURKAN S., Dinçer P., Kefeli T., Demirhan O.
IECMSA-2015 4th International Eurasian Conference on Mathematical Sciences and Applications, 31 August - 03 September 2015, pp.271
- XII. **Spherical Representatives of W Direction Curves**
GÜVEN İ., NURKAN S., AĞAOĞLU TOR İ.
13.GEOMETRİ SEMPOZYUMU, İstanbul, Turkey, 27 - 30 July 2015
- XIII. **Q Code in Modern Mosque Architecture**
GÜRSOY E., NURKAN S.
IECMSA-2014 3rd International Eurasian Conference on Mathematical Sciences and Applications, Viyana, Austria, 25 - 28 August 2014, pp.461
- XIV. **Dual Fibonacci Numbers**
GÜVEN İ., NURKAN S.
3rd International Eurasian Conf. on Math.Sciences and Applications, Viyana, Austria, 25 - 28 August 2014
- XV. **Code in Modern Mosque Architecture**
GÜRSOY E., NURKAN S.
3rd International Eurasian Conf. on Math. Sciences and Applications, Viyana, Austria, 25 - 28 August 2014
- XVI. **On Characterizations of New Curves in 3 space**
NURKAN S., KARACAN M. K., arslan güven i., TUNÇER Y.
XII. Geometri Sempozyumu, Bilecik, Turkey, 23 - 26 June 2014
- XVII. **On the characterizations of new curves in 3-space**
KARACAN M. K., NURKAN S.
12.Ulusal Geometri Sempozyumu, Turkey, 23 - 26 June 2014
- XVIII. **Darboux Rotation Axis of a Null Curve in Minkowski 3-space**
KARACAN M. K., TUNÇER Y., NURKAN S.
X. Geometri Sempozyumu, Balıkesir, Balıkesir, Turkey, 13 - 16 June 2012
- XIX. **A study on ruled surface of Weingarten type**
GÜVEN İ., NURKAN S., KARACAN M. K.
X.Ulusal Geometri Sempozyumu, Balıkesir, Turkey, 13 - 16 June 2012
- XX. **X Geometri Sempozyumu**
KARACAN M. K., TUNÇER Y., NURKAN S.
X. Geometri Sempozyumu, Bursa, Turkey, 13 - 16 June 2012
- XXI. **On the pitch and angle of pitch of ruled surfaces**
GÜVEN İ., NURKAN S., HACISALİHOĞLU H. H.
VIII. Ulusal Geometri Sempozyumu, Antalya, Turkey, 29 April - 02 May 2010
- XXII. **On the images of Mannheim partner curves under the Mobius transformations**
NURKAN S., GÜVEN İ., HACISALİHOĞLU H. H.
VIII. Ulusal Geometri Sempozyumu, Antalya, Turkey, 29 April - 02 May 2010
- XXIII. **Mobius Transformasyonları ve Küresel İnvaryantları**
NURKAN S., GÜVEN İ., HACISALİHOĞLU H. H.

VII. Ulusal Geometri Sempozyumu, Kırşehir, Turkey, 7 - 10 July 2009

XXIV. Minkowski 3 uzayında genel helisler ve düzlemsel eğriler

GÜVEN İ., NURKAN S., HACISALİHOĞLU H. H.

4. Ankara Matematik Günleri, Ankara, Turkey, 4 - 05 June 2009

Metrics

Publication: 48

Citation (Scopus): 65

H-Index (Scopus): 5