

# Prof. ZERRİN GÜL ESMERLİGİL

## Personal Information

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## International Researcher IDs

ORCID: 0000-0003-0251-1296

Yoksis Researcher ID: 129457

## Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Matematik, Turkey 1989 - 1994

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Matematik, Turkey 1986 - 1989

Undergraduate, Ankara University, Fen Fakültesi, Matematik, Turkey 1979 - 1985

## Foreign Languages

English, B2 Upper Intermediate

## Research Areas

Mathematics, Nonassociative Rings and Algebras, Natural Sciences

## Academic Titles / Tasks

Professor, Cukurova University, Fen-Edebiyat Fakültesi, Matematik, 2017 - Continues

Associate Professor, Cukurova University, Fen-Edebiyat Fakültesi, Matematik, 2013 - 2017

Assistant Professor, Cukurova University, Fen-Edebiyat Fakültesi, Matematik, 1995 - 2013

Lecturer PhD, Cukurova University, Fen-Edebiyat Fakültesi, Matematik, 1994 - 1995

Research Assistant, Cukurova University, Fen-Edebiyat Fakültesi, Matematik, 1986 - 1994

## Academic and Administrative Experience

Cukurova University, Fen-Edebiyat Fakültesi, 2006 - 2012

## Courses

Matematik, Undergraduate, 2016 - 2017

Optimizasyon, Undergraduate, 2016 - 2017

Matematik II, Undergraduate, 2016 - 2017  
Kısmi Türevli Diferansiyel Denklemler, Undergraduate, 2014 - 2015  
Analitik Geometri I, Undergraduate, 2013 - 2014  
Analitik Geometri II, Undergraduate, 2013 - 2014  
Diferansiyel Denklemler, Undergraduate, 2013 - 2014

## Advising Theses

ESMERLİGİL Z. G., Serbest Metabelyen Lie Cebirlerinin Endomorfizmleri, Otomorfizmleri, Primitif Elemanları ve Yörüngeleri, Postgraduate, P.Tekinşen(Student), 2011  
ESMERLİGİL Z. G., Gröbner Bazı ve İndirgeme Teknikleri, Postgraduate, N.Mansuroğlu(Student), 2009  
ESMERLİGİL Z. G., Serbest Lie Cebirlerinde Taşınabilen ve Taşınamayan Otomorfizmler ve Primitif Elemanlar, Doctorate, Z.Özkurt(Student), 2007  
ESMERLİGİL Z. G., Polinom Cebirlerinin Koordinat Polinomları ve Test Elemanları, Postgraduate, A.Sevindik(Student), 2006  
ESMERLİGİL Z. G., Serbest Akivis Cebirleri, Postgraduate, Ş.Fındık(Student), 2005

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

- I. **Ideals and primitive elements of some relatively free Lie algebras**  
Ekici N., Esmerligil Z., Ersalan D.  
SPRINGERPLUS, vol.5, 2016 (SCI-Expanded)
- II. **Test rank of  $F/R$  Lie algebras**  
ESMERLİGİL Z., KAHYALAR D., Ekici N.  
INTERNATIONAL JOURNAL OF ALGEBRA AND COMPUTATION, vol.16, no.4, pp.817-825, 2006 (SCI-Expanded)
- III. **Test sets and test rank of a free metabelian Lie algebra**  
ESMERLİGİL Z. G., Ekici N.  
COMMUNICATIONS IN ALGEBRA, vol.31, no.11, pp.5581-5589, 2003 (SCI-Expanded)

## Articles Published in Other Journals

- I. **On central Automorphisms of Free Center-By Metabelian Lie Algebras**  
ESMERLİGİL Z. G.  
International Advanced Research Journal in Science, Engineering and Technology, vol.3, no.7, pp.231-232, 2016  
(Peer-Reviewed Journal)
- II. **Fixed Points of Automorphisms Permuting the Generators Cyclically in Free solvable Lie algebras**  
ESMERLİGİL Z. G.  
International Advanced Research Journal in Science, Engineering and Technology, vol.3, no.6, pp.250-251, 2016  
(Peer-Reviewed Journal)
- III. **Primitive Elements and Preimage of Primitive Sets of Free Lie Algebras**  
ESMERLİGİL Z. G., Ersalan D.  
International Journal of Pure and Applied Mathematics, vol.95, pp.535-544, 2014 (Peer-Reviewed Journal)
- IV. **Delta Primitive Elements of Free Metabelian Lie Algebras**  
ESMERLİGİL Z. G., Ersalan D.  
MATHEMATICAL SCIENCES AND APPLICATIONS E-NOTES, vol.1, no.1, pp.51-55, 2013 (Peer-Reviewed Journal)
- V. **Test Elements of A Free Color Metabelian Lie Superalgebra of Rank Two**  
ESMERLİGİL Z. G.  
Jour. of Inst. of Math.& Comp. Sci., vol.17, pp.25-29, 2004 (Peer-Reviewed Journal)

- VI. **A Matrix Test for Color Lie Süperalgebras of rank Two**  
 ESMERLİGİL Z. G.  
 Hadronic J. Suppl., vol.18, no.1, pp.83-88, 2003 (Peer-Reviewed Journal)
- VII. **The Determination of Subalgebras of Codimension one in a Finitely Presented Lie Algebra**  
 ESMERLİGİL Z. G., Ekici N., Aydın E.  
 Bull.Cal. Math. Soc., vol.94, no.3, pp.197-208, 2002 (Peer-Reviewed Journal)
- VIII. **The determination of subalgebras of codimension one in a finitely presented Lie algebras**  
 Aydın E., Esmerligil Z. G., Ekici N.  
 Bull.Calcutta Math.Soc., vol.94, no.3, pp.197-208, 2002 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Fixed points of automorphisms permuting free generators of free metabelian Lie algebras**  
 ESMERLİGİL Z. G., EKİCİ N.  
 4th International Eurasian Conference on Mathematical Sciences and Applications, 31 August - 03 September 2015
- II. **Fixed Point of Automorphisms Permuting Free Generators of Free Metabelian Lie Algebras**  
 ESMERLİGİL Z. G., Ekici N.  
 4th INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Atina, Greece,  
 31 August - 03 September 2015, pp.327
- III. **Minimal central series of nilpotent product of abelian Lie algebras**  
 ESMERLİGİL Z. G., EKİCİ N.  
 IECMSA-2014, Viyana, Austria, 25 - 28 August 2014
- IV. **Minimal Central Series of Nilpotent Product of Abelian Lie Algebras**  
 ESMERLİGİL Z. G., Ekici N.  
 3rd INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Vienna,  
 Austria, 25 - 28 August 2014, pp.549
- V. **Primitive Elements and Preimage of Primitive Sets of Free Lie Algebras**  
 ESMERLİGİL Z. G., Ersalan D.  
 2nd INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Sarajevo,  
 Bosnia And Herzegovina, 26 - 29 August 2013, pp.20
- VI. **Esmerligil Z.G., Ersalan D. , "Delta-Primitive Elements of free Metabelian Lie Algebras", 1st INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Prishtine, KOSOVA, 3-7 Eylül 2012, pp.15-15**  
 ESMERLİGİL Z. G., ERSALAN D.  
 IECMSA, 3 - 07 September 2012, pp.15
- VII. **Delta-Primitive Elements of free Metabelian Lie Algebras**  
 ESMERLİGİL Z. G., Ersalan D.  
 1st INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Prishtine,  
 Kosova, 3 - 07 September 2012, pp.15
- VIII. **Rankı iki olan Serbest metabelyen Lie Cebirleri için bir Komutatör Testi**  
 ESMERLİGİL Z. G., Ekici N.  
 XXI.ULUSAL MATEMATİK SEMPOZYUMU, İstanbul, Turkey, 1 - 04 September 2008, pp.43
- IX. **İki Üreteçli  $F\langle R \rangle$  Serbest Lie cebirleri için Komutatör Testi**  
 ESMERLİGİL Z. G., Ekici N.  
 XIX.ULUSAL MATEMATİK SEMPOZYUMU, Kütahya, Turkey, 22 - 25 August 2006, pp.51
- X. **İki Üreteçli Serbest Metabelyen Lie Cebirlerinin Primitif Elemanları ve Otomorfizmleri**  
 ESMERLİGİL Z. G., Ekici N.  
 XVI. ULUSAL MATEMATİK SEMPOZYUMU, Van, Turkey, 10 - 12 September 2003, pp.101-105
- XI. **On Abelian Semigroup Presentations**  
 ESMERLİGİL Z. G., Ünlü Y.

XI. ULUSAL MATEMATİK SEMPOZYUMU, Isparta, Turkey, 7 - 11 September 1998, pp.57-64

XII. YARI GRUP TAKDİMLERİ İLE İLGİLİ ÖRNEKLER

ESMERLİGİL Z. G., Ünlü Y.

IV. ULUSAL MATEMATİK SEMPOZYUMU, Hatay, Turkey, 2 - 06 September 1991, pp.116-126

## Supported Projects

ESMERLİGİL Z. G., Project Supported by Higher Education Institutions, Fixed point of Automorphisms Permuting Free Generators of Free Metabelian Lie Algebras, 2015 - 2015

ESMERLİGİL Z. G., Project Supported by Higher Education Institutions, Minimal Central Series of Nilpotent Product of Abelian Lie Algebras, 2014 - 2014

## Metrics

Publication: 23

Citation (WoS): 12

Citation (Scopus): 14

H-Index (WoS): 2

H-Index (Scopus): 2

## Congress and Symposium Activities

4th INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Attendee, Athina, Greece, 2015

3rd INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Attendee, Wien, Austria, 2014

2nd INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Attendee, Sarajevo, Bosnia And Herzegovina, 2013

1st INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Attendee, Prishtine, Kosova, 2012

XXI. ULUSAL MATEMATİK SEMPOZYUMU, Attendee, İstanbul, Turkey, 2008

XIX. ULUSAL MATEMATİK SEMPOZYUMU, Attendee, Kütahya, Turkey, 2006

XVI. ULUSAL MATEMATİK SEMPOZYUMU, Attendee, Van, Turkey, 2003

XI. ULUSAL MATEMATİK SEMPOZYUMU, Attendee, Isparta, Turkey, 1998

IV. ULUSAL MATEMATİK SEMPOZYUMU, Attendee, Hatay, Turkey, 1991

## Non Academic Experience

Çukurova Üniversitesi

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