

Assoc. Prof. LEYLA BUGAY

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: A-6038-2016

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Biography

12.06.1984 yılında Adana'da doğdu. İlk, orta ve lise öğrenimini Adana'da tamamladıktan sonra 2002 yılında Ç. Ü. Matematik bölümünde lisans öğrenimine başladı ve 2006 yılında fakülte ve bölüm 2. si olarak mezun oldu. Aynı yıl Ç. Ü. Fen Bilimleri Enstitüsü Matematik Anabilim Dalında yüksek lisansa kabul edildi. YADEM'de İngilizce hazırlık sınıfını bitirdikten sonra 2007 yılında yüksek lisans öğrenimine ve aynı yıl Ç. Ü. Matematik bölümünde araştırma görevlisi olarak çalışmaya başladı. 2010 yılında yüksek lisansını bitirip yine aynı yıl Ç. Ü. Fen Bilimleri Enstitüsü Matematik Anabilim Dalında doktora çalışmasına başladı ve Aralık 2015 tarihinde mezun oldu. Eylül 2020 de doçentlik ünvanını aldı. Ocak 2016 tarihinden itibaren Ç. Ü. Fen-Edebiyat Fakültesi Matematik Bölümünde Doktor Öğretim Üyesi olarak görevine devam etmektedir. Evli ve iki çocuk annesidir.

Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Matematik, Turkey 2010 - 2015

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Matematik, Turkey 2007 - 2010

Undergraduate, Cukurova University, Fen Edebiyat Fakültesi, Matematik, Turkey 2002 - 2006

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Education Management and Planning, Pedagojik Formasyon Sertifikası, Çukurova Üniversitesi Eğitim Fakültesi, 2013

Dissertations

Doctorate, BAZI DÖNÜŞÜM YARIGRUPLARININ DOĞURAYLARI ve RANKLARI, Cukurova University, Fen-Bilimleri Enstitüsü, Matematik, 2015

Postgraduate, YARIGRUPLARIN BRUCK-REILLY GENİŞLEMELERİNİN SONLU TAKDİM EDİLEBİLİRLİĞİ, Cukurova University, Fen Bilimleri Enstitüsü, Matematik, 2010

Research Areas

Mathematics, General Algebraic Systems, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Cukurova University, Fen-Edebiyat Fakültesi, Matematik, 2016 - Continues

Research Assistant, Cukurova University, Fen Bilimleri Enstitüsü, Matematik, 2007 - 2015

Courses

MATEMATİK 2, Undergraduate, 2017 - 2018

Matematik1, Undergraduate, 2017 - 2018

Yüksek Matematik 2, Undergraduate, 2016 - 2017

Yarıgrup Teorisi, Postgraduate, 2017 - 2018

Diferansiyel Denklemler, Undergraduate, 2017 - 2018

Yüksek Matematik1, Undergraduate, 2017 - 2018

Grup takdimlerine Giriş, Postgraduate, 2016 - 2017

Advising Theses

BUGAY L., Dönüşüm Yarıgruplarında Bazı Özel Ranklar, Postgraduate, K.Dilek(Student), 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Ranks of certain semigroups of transformations with idempotent complement whose restrictions belong to a given semigroup**
BUGAY L., Sönmez R., AYIK H.
Turkish Journal of Mathematics, vol.48, no.3, pp.414-422, 2024 (SCI-Expanded)
- II. **Quasi-idempotent ranks of the proper ideals in finite symmetric inverse semigroups**
BUGAY L.
TURKISH JOURNAL OF MATHEMATICS, vol.45, no.1, pp.281-287, 2021 (SCI-Expanded)
- III. **On the ranks of certain ideals of monotone contractions**
BUGAY L.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.49, no.6, pp.1988-1996, 2020 (SCI-Expanded)
- IV. **Combinatorial Results for Semigroups of Order-Preserving and A-Decreasing Finite Transformations**
BUGAY L., YAĞCI M., AYIK H.
BULLETIN OF THE MALAYSIAN MATHEMATICAL SCIENCES SOCIETY, vol.42, no.3, pp.921-932, 2019 (SCI-Expanded)
- V. **Quasi-idempotent ranks of some permutation groups and transformation semigroups**
BUGAY L.
TURKISH JOURNAL OF MATHEMATICS, vol.43, no.5, pp.2390-2395, 2019 (SCI-Expanded)
- VI. **The ranks of certain semigroups of partial isometries**
Bugay L., YAĞCI M., AYIK H.
SEMIGROUP FORUM, vol.97, no.2, pp.214-222, 2018 (SCI-Expanded)
- VII. **Generating sets of certain finite subsemigroups of monotone partial bijections**
Bugay L., AYIK H.
TURKISH JOURNAL OF MATHEMATICS, vol.42, no.5, pp.2270-2278, 2018 (SCI-Expanded)
- VIII. **On the second homology of the Schutzenberger product of monoids**
YAĞCI M., BUGAY L., AYIK H.

- TURKISH JOURNAL OF MATHEMATICS, vol.39, no.5, pp.763-772, 2015 (SCI-Expanded)
- IX. **GENERATING SETS OF FINITE TRANSFORMATION SEMIGROUPS $PK(n, r)$ AND $K(n, r)$**
 AYIK H., BUGAY L.
 COMMUNICATIONS IN ALGEBRA, vol.43, no.2, pp.412-422, 2015 (SCI-Expanded)
- X. **GENERATING SETS OF STRICTLY ORDER-PRESERVING TRANSFORMATION SEMIGROUPS ON A FINITE SET**
 AYIK H., BUGAY L.
 BULLETIN OF THE KOREAN MATHEMATICAL SOCIETY, vol.51, no.4, pp.1055-1062, 2014 (SCI-Expanded)
- XI. **On transformations of index 1**
 Bugay L., KELEKÇİ O.
 TURKISH JOURNAL OF MATHEMATICS, vol.38, no.3, pp.419-425, 2014 (SCI-Expanded)
- XII. **Generating sets of finite singular transformation semigroups**
 AYIK G., AYIK H., BUGAY L., KELEKÇİ O.
 SEMIGROUP FORUM, vol.86, no.1, pp.59-66, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **Quasi-idempotents in certain transformation semigroups**
 BUGAY L.
 Algebra and Discrete Mathematics, vol.37, no.2, pp.181-190, 2024 (ESCI)
- II. **A general approach for generating sets of certain subsemigroups of monotone maps**
 BUGAY L.
 ASIAN-EUROPEAN JOURNAL OF MATHEMATICS, vol.13, no.7, 2020 (ESCI)
- III. **On Minimal Generating Sets of Certain Subsemigroups of Isometries**
 BUGAY L., YAĞCI M.
 Mathematical Sciences and Applications E-Notes, vol.8, no.2, pp.71-78, 2020 (Peer-Reviewed Journal)
- IV. **Certain ranks of some ideals in symmetric inverse semigroups contains $\text{rank} \circ \text{rank}$ or $\text{rank} \circ \text{rank}$**
 BUGAY L.
 Balıkesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.22, no.2, pp.669-678, 2020 (Peer-Reviewed Journal)
- V. **Some Involutions which Generate the Finite Symmetric Group**
 BUGAY L.
 Mathematical Sciences and Applications E-Notes, vol.8, no.1, pp.25-28, 2020 (Peer-Reviewed Journal)
- VI. **Generating Sets in Some Semigroups of Order-Preserving Transformations on a Finite Set**
 AYIK H., BUGAY L.
 SOUTHEAST ASIAN BULLETIN OF MATHEMATICS, vol.38, pp.163-172, 2014 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **ON INVOLUTIONS IN FINITE SYMMETRIC GROUP S_n**
 BUGAY L.
 10th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2021), 25 - 27 August 2021
- II. **Quasi-idempotents in P_n**
 BUGAY L.
 5th International Conference of Mathematical Sciences (ICMS 2021), 23 - 27 January 2021
- III. **On minimal quasi-idempotent generating sets of certain permutation groups and transformation semigroups**
 BUGAY L.
 5th International Conference of Mathematical Sciences (ICMS 2021), 23 - 27 January 2021

- IV. **On nilpotents in finite A-increasing isotone maps**
 Bugay L.
 5th International Conference of Mathematical Sciences, İstanbul, Turkey, 23 - 27 January 2021, pp.1
- V. **THE METHOD TO FIND GENERATING SETS OF CERTAIN SUBSEMIGROUPS OF ORDER-PRESERVING PARTIAL BIJECTIONS.**
 BUGAY L.
 International Conference on Mathematical Studies and Applications 2018, Karaman, Turkey, 4 - 06 October 2018, pp.1
- VI. **THE RANKS OF CERTAIN SUBSEMIGROUPS OF ORDER- PRESERVING PARTIAL ISOMETRIES.**
International Conference on Mathematical Studies and Applications 2018
 BUGAY L.
 International Conference on Mathematical Studies and Applications 2018, Karaman, Turkey, 4 - 06 October 2018, pp.1
- VII. **A general approach to find generating sets of certain finite subsemigroups of symmetric inverse semigroup.**
 BUGAY L.
 International Conference on Pure and Applied Mathematics ICPAM-VAN 2018, Van, Turkey, 11 - 13 September 2018, pp.1
- VIII. **The cardinal and Idempotent Number of Order-preserving and A-increasing Finite Transformations Semigroup.**
 BUGAY L.
 5th INTERNATIONAL CONFERENCE on RECENT ADVANCES in PURE AND APPLIED MATHEMATICS (ICRAPAM2018), Trabzon, Turkey, 23 - 27 July 2018, pp.1
- IX. **Ranks and generating sets of certain semigroups of partial isometries.**
 BUGAY L.
 INTERNATIONAL CONFERENCE ON SEMIGROUPS, Lisbon, Portugal, 11 - 14 July 2018, pp.1
- X. **Generating sets and ranks of certain subsemigroups of monotone transformations**
 BUGAY L.
 XX. Antalya Algebra Days, İzmir, Turkey, 16 - 19 May 2018, pp.1
- XI. **The Structure of All Generating Sets of Certain Monotone Partial Transformation Subsemigroups**
 BUGAY L.
 INTERNATIONAL CONFERENCE on MATHEMATICAL ADVANCES and APPLICATIONS (ICOMAA2018), İstanbul, Turkey, 11 - 13 May 2018, pp.1
- XII. **Generating sets of finite transformation semigroups $PK(n,r)$ and $K(n,r)$**
 BUGAY L.
 XIX. Antalya Algebra Days, İzmir, Turkey, 17 - 21 May 2017
- XIII. **Bazı Sıra-Koruyan Kesin Kısmi Dönüşüm Yarıgruplarının Doğuray Kümeleri**
 BUGAY L.
 IV. Kadın Matematikçiler Derneği Çalıştayı, Ankara, Turkey, 28 - 29 April 2017, pp.1
- XIV. **Bazı Sonlu Sıra-Koruyan Dönüşüm Yarıgruplarının Doğuray Kümeleri**
 BUGAY L., AYIK H.
 XXVI. Ulusal Matematik Sempozyumu, Diyarbakır, Turkey, 4 - 07 September 2013, pp.12
- XV. **Sonlu Tekil Dönüşüm Yarıgruplarının Doğuray Kümeleri**
 BUGAY L., AYIK G., AYIK H., KELEKCI O.
 XXV. Ulusal Matematik Sempozyumu, Niğde, Turkey, 5 - 07 September 2012, pp.12

Supported Projects

BUGAY L., Project Supported by Higher Education Institutions, Kısmi dönüşümler yarıgrupunda bazı sayısal veriler, 2018 - 2020

BUGAY L., AYIK H., Project Supported by Higher Education Institutions, Generating sets of finite transformation semigroups PKnr and Knr, 2017 - 2018

Scientific Refereeing

Turkish Journal of Mathematics, SCI Journal, March 2018

Metrics

Publication: 33

Citation (WoS): 15

Citation (Scopus): 16

H-Index (WoS): 2

H-Index (Scopus): 3

Congress and Symposium Activities

10th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2021), Attendee, İstanbul, Turkey, 2021

5. International Conference of Mathematical Sciences (ICMS 2021), Session Moderator, İstanbul, Turkey, 2021

International Conference on Mathematical Studies and Applications, Attendee, Karaman, Turkey, 2018

International Conference on Pure and Applied Mathematics ICPAM-VAN 2018, Attendee, Van, Turkey, 2018

5th INTERNATIONAL CONFERENCE on RECENT ADVANCES in PURE AND APPLIED MATHEMATICS, Attendee, Trabzon, Turkey, 2018

INTERNATIONAL CONFERENCE ON SEMIGROUPS, Attendee, Lisbon, Portugal, 2018

INTERNATIONAL CONFERENCE on MATHEMATICAL ADVANCES and APPLICATIONS (ICOMAA2018), Attendee, İstanbul, Turkey, 2018

XX. Antalya Algebra Days, Attendee, İzmir, Turkey, 2018

XIX. Antalya Algebra Days, Attendee, İzmir, Turkey, 2017

IV. Kadın Matematikçiler Derneği Çalıştayı, Attendee, Ankara, Turkey, 2017

26. Ulusal Matematik Sempozyumu, Attendee, Diyarbakır, Turkey, 2013

25. Ulusal Matematik sempozyumu, Attendee, Niğde, Turkey, 2012

Scholarships

YURT İÇİ DOKTORA BURSUSU, TUBITAK, 2010 - Continues

YURT İÇİ YÜKSEK LİSANS BURSUSU, TUBITAK, 2006 - Continues