

## Assoc. Prof. ESRA BOLAT GÜMÜŞ

### Personal Information

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### International Researcher IDs

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Yoksis Researcher ID: 234568

### Education Information

Doctorate, Suleyman Demirel University, Sağlık Bilimleri Enstitüsü, Ortodonti Anabilim Dalı, Turkey 2008 - 2014

Undergraduate, Ankara University, Faculty of Dentistry, Diş Hekimliği Fakültesi, Turkey 2003 - 2008

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Health&Medicine, CPR/Temel Yaşam Desteği, Medipol Üniversitesi Hastanesi, 2016

Health&Medicine, Orthodontic Treatment Mechanics and the Pre-adjusted Appliance, Opal Orthodontics, Eksen Medikal, 2013

Health&Medicine, Effective and Efficient Class II Treatments Course, 3M UNITEK, 2012

Health&Medicine, eClinger Certification Seminar, eClinger Worldwide, 2012

Education Management and Planning, Deney Hayvanları Kullanım Kursu, Ege Üniversitesi Hayvan Deneyleri Yerel Etik Kurulu ve Tıp Fakültesi Genel Cerrahi Anabilim Dalı, 2011

### Dissertations

Doctorate, Ratlarda C ve E Vitamini Uygulamalarının Ortodontik Diş Hareketi Üzerine Etkilerinin Histolojik ve Biyokimyasal olarak İncelenmesi, Suleyman Demirel University, Sağlık Bilimleri Enstitüsü, Ortodonti Anabilim Dalı, 2014

### Research Areas

Health Sciences, Dentistry, Clinical Sciences, Orthodontics

### Academic Titles / Tasks

Assistant Professor, Akdeniz University, Faculty of Dentistry, Department of Clinical Sciences, 2018 - Continues

Assistant Professor, Akdeniz University, Faculty of Dentistry, Department of Clinical Sciences, 2017 - 2018

## Supervised Theses

Bolat Gümüş E., CERRAHİ DESTEKLİ HIZLI ÜST ÇENE GENİŞLETMESİ VE FARKLI İKİ TİP MİNİ VİDA DESTEKLİ HIZLI ÜST ÇENE GENİŞLETME AYGITLARININ ETKİLERİNİN SONLU ELEMANLAR ANALİZİ İLE DEĞERLENDİRİLMESİ, Dental Specialty, E.TATLISU(Student), 2024

Bolat Gümüş E., Farklı sagittal yön iskeletsel anomaliye sahip hastalarda çiğneme kaslarının ultrasonografi ve ultrasonografik elastografi ile incelenmesi, Dental Specialty, C.TÜFEKÇİ(Student), 2023

Bolat Gümüş E., İskeletsel sınıf II hastalarda uygulanan fonksiyonel ortopedik tedavilerin çiğneme kasları üzerine etkilerinin ultrasonografi ve ultrasonografik elastografi ile değerlendirilmesi, Dental Specialty, H.ÇETİN(Student), 2023

BOLAT GÜMÜŞ E., Sınıf II bölüm 1 ve sınıf II bölüm 2 olgularda uygulanan monoblock ve twin block apareylerinin etkilerinin karşılaştırılması, Dental Specialty, F.DİKMEN(Student), 2020

BOLAT GÜMÜŞ E., Asimetrik premolar çekimli sabit ortodontik tedavilerin ark simetrisi ve okluzyon üzerine etkilerinin değerlendirilmesi, Dental Specialty, E.POLATCAN(Student), 2019

BOLAT GÜMÜŞ E., Farklı remineralizasyon ajanlarının mine yüzeyine etkisinin optik koherens tomografi ile incelenmesi, Dental Specialty, E.BAY(Student), 2019

BOLAT GÜMÜŞ E., Ortodontik tedavi-apikal kök rezorpsiyonu ilişkisinin değerlendirilmesi, Dental Specialty, F.BAYIR(Student), 2019

BOLAT GÜMÜŞ E., Farklı tipteki hızlı üst çene genişletme apareylerinin iskeletsel ve dentoalveolar yapıları olan etkilerinin değerlendirilmesi, Dental Specialty, E.EKER(Student), 2019

BOLAT GÜMÜŞ E., İskeletsel Sınıf I maloküzyona sahip hastalarda damon ve konvansiyonel braket sistemlerinin dentoalveolar yapıları olan etkilerinin karşılaştırılması, Dental Specialty, M.KARA(Student), 2018

BOLAT GÜMÜŞ E., Farklı 'alternate rapid maxillary expansion and construction (alt ramec)' prosedürleriyle birlikte uygulanan yüz maskesi tedavisinin etkilerinin karşılaştırılması, Dental Specialty, M.Hilmi(Student), 2017

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

- I. **Evaluation of masticatory muscles in patients with different sagittal direction skeletal anomalies by ultrasonography and ultrasonographic elastography.**  
Tüfekçi C., Bolat Gümüş E., Günen Yılmaz S.  
Oral radiology, 2024 (SCI-Expanded)
- II. **Third molar angulation and retromolar space after functional orthodontic treatment: Evaluation of panoramic radiographs after monoblock or Herbst appliance**  
Gümüş E., ESENLİK E., Kayafoglu G. E., Yıldırım M.  
Journal of Orofacial Orthopedics, vol.85, no.Suppl 2, pp.181-188, 2024 (SCI-Expanded)
- III. **Effects of functional orthopedic treatment on mandibular trabecular bone in class II patients using fractal analysis Auswirkungen einer funktionellen orthopädischen Behandlung auf Trabekelknochen im Unterkiefer von Klasse-II-Patienten anhand einer Fraktalanalyse**  
Bolat Gümüş E., Yavuz E., Tufekci C.  
Journal of Orofacial Orthopedics, vol.84, pp.155-164, 2023 (SCI-Expanded)
- IV. **Does puberty affect oxidative stress levels and antioxidant activity of saliva in patients with fixed orthodontic appliances?**  
ESENLİK E., BOLAT GÜMÜŞ E., Eroglu Albayrak G., KUMBUL DOĞUÇ D.  
JOURNAL OF OROFACIAL ORTHOPEDICS-FORTSCHRITTE DER KIEFERORTHOPADIE, vol.84, no.SUPPL 2, pp.56-64, 2023 (SCI-Expanded)
- V. **Effects of miniscrew-facilitated micro-osteoperforations on the rate of orthodontic tooth movement : A split-mouth, randomized controlled trial.**  
Bolat Gümüş E., Kimsız E.

Journal of orofacial orthopedics = Fortschritte der Kieferorthopädie : Organ/official journal Deutsche Gesellschaft für Kieferorthopädie, vol.84, no.Suppl 2, pp.104-110, 2023 (SCI-Expanded)

- VI. **Effects of different distractor positions on the formation of expansion, stress and displacement patterns in surgically assisted rapid maxillary expansion without pterygomaxillary disjunction: a finite element analysis study.**  
Koç O., Bolat Gumus E.  
Computer methods in biomechanics and biomedical engineering, pp.1-11, 2023 (SCI-Expanded)
- VII. **Microleakage beneath orthodontic brackets in high field magnetic resonance imaging (MRI) AT 1.5 & 3 Tesla.**  
Bolat Gümüş E., Şatir S., Kuştarci A.  
Dento maxillo facial radiology, pp.20210512, 2022 (SCI-Expanded)
- VIII. **Condylar and ramal vertical asymmetry in patients with different vertical skeletal patterns**  
Bolat E., Tercanlı Alkış H.  
AUSTRALASIAN ORTHODONTIC JOURNAL, vol.37, pp.85-92, 2021 (SCI-Expanded)
- IX. **Efficacy of a casein phosphopeptide amorphous calcium phosphate (CPP-ACP) paste in preventing white spot lesions in patients with fixed orthodontic appliances: A prospective clinical trial**  
Esenlik E., Celik E. U., Bolat E.  
EUROPEAN JOURNAL OF PAEDIATRIC DENTISTRY, vol.17, no.4, pp.274-280, 2016 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Evaluation of mandibular trabecular bone structure in growing children with Class I, II, and III malocclusions using fractal analysis: A retrospective study.**  
Tercanlı H., Bolat Gümüş E.  
International orthodontics, vol.22, no.3, pp.100875, 2024 (ESCI)
- II. **The Relationship Between Hand Preference and Mandibular Asymmetry: A Preliminary Study**  
Alkış H., Bolat Gümüş E.  
CLINICAL AND EXPERIMENTAL HEALTH SCIENCES, vol.14, no.1, pp.114-119, 2024 (ESCI)
- III. **Evaluation of the Effects of Asymmetric Premolar Extraction Treatment on Arch Form and Symmetry**  
Polatcan Kılıç E., BOLAT GÜMÜŞ E.  
Akdeniz Dental Journal, vol.2, no.3, pp.120-129, 2023 (Peer-Reviewed Journal)
- IV. **Evaluation of the effects of different types of adhesives on enamel demineralization during fixed orthodontic treatment**  
BOLAT GÜMÜŞ E., DALMIŞ DEMİRAĞ Z. D., ÇİFTÇİ Z. Z.  
Contemporary Pediatric Dentistry, vol.4, no.1, pp.1-14, 2023 (Peer-Reviewed Journal)
- V. **A qualitative twitter analysis of the patient experience with invisible orthodontics; lingual braces versus invisalign**  
Bolat Gümüş E., Hoşgör Yorgancıoğlu E.  
Apos Trends in Orthodontics, vol.11, pp.218-222, 2021 (ESCI)
- VI. **External apical root resorption after orthodontic treatment: Incidence,severity and risk factors**  
Bayır F., Bolat Gümüş E.  
Journal of Dental Research Dental Clinics Dental Prospects (JODDD), vol.15, no.2, pp.100-105, 2021 (Peer-Reviewed Journal)
- VII. **Ortodontide güncel pekiştirme uygulamaları**  
BAYIR F., BOLAT GÜMÜŞ E.  
Akdeniz Tıp Dergisi, vol.7, pp.27-35, 2021 (Peer-Reviewed Journal)
- VIII. **Ortodontide Güncel Pekiştirme Uygulamaları: Literatür Derlemesi**  
BAYIR F., BOLAT GÜMÜŞ E.  
Akdeniz Tıp Dergisi, vol.7, no.1, pp.27-35, 2021 (Peer-Reviewed Journal)
- IX. **Relationship Between the Initial Position of Palatally Displaced Canines and Treatment Duration**

ESENLİK E., BOLAT GÜMÜŞ E., FINDIK Y.

ODOVTOS INTERNATIONAL JOURNAL OF DENTAL SCIENCES, vol.22, no.3, pp.187-200, 2020 (ESCI)

- X. **İskeletsel Sınıf 1 Hastalarda Damon ve Konvansiyonel Braket Sistemlerinin Dentoalveoler Yapılar ve Gülümseme Estetiği Üzerine Etkilerinin Karşılaştırılması**  
Kara Özkaya M., Bolat E.  
Akdeniz Tıp Dergisi, vol.3, pp.394-405, 2020 (Peer-Reviewed Journal)
- XI. **Sınıf II Bölüm 1 Ve Sınıf II Bölüm 2 Olgularda Uygulanan Monoblok Ve Twin Blok Apareylerinin Etkilerinin Karşılaştırılması**  
DİKMEN TORAN F., BOLAT E.  
Süleyman Demirel Üniversitesi Sağlık Bilimleri Dergisi, 2020 (Peer-Reviewed Journal)
- XII. **Evaluation of the effects of vitamins C and E on experimental orthodontic tooth movement**  
Bolat E., Esenlik E., Öncü M., Özgöçmen M., Avunduk M. C., Çoban Yüksel Ö.  
Journal of Dental Research, Dental Clinics, Dental Prospects, vol.14, no.2, pp.131-137, 2020 (Peer-Reviewed Journal)
- XIII. **Mandibuler Simfizyel Orta Hat Distraksiyonu için Yeni Dizayn edilmiş Hastaya Özel Hibrit Aperey**  
FINDIK Y., TOPAL O., BOLAT E., AKPINAR H.  
Süleyman Demirel Üniversitesi Sağlık Bilimleri Enstitüsü Dergisi, vol.7, no.3, pp.66-67, 2016 (Peer-Reviewed Journal)
- XIV. **Skeletal Facial Morphology and Third Molar Agenesis**  
KÖMERİK N., ESENLİK E., TOPAL O., BOLAT GÜMÜŞ E.  
IBIMA Publishing Journal of Research and Practice in Dentistry, pp.1-11, 2014 (Peer-Reviewed Journal)
- XV. **Obezite Ortodonti İlişkisi**  
ESENLİK E., BOLAT E.  
Süleyman Demirel Üniversitesi Sağlık Bilimleri Enstitüsü Dergisi, vol.2, no.2, pp.101-111, 2011 (Peer-Reviewed Journal)
- XVI. **Klinik ve Bilimsel Çalışmalarda Etik Kurallar**  
BOLAT E.  
Süleyman Demirel Üniversitesi Sağlık Bilimleri Enstitüsü Dergisi, vol.1, no.2, pp.125-133, 2010 (Peer-Reviewed Journal)
- XVII. **Klinik ve Bilimsel Araştırmalarda Etik Kurallar**  
ESENLİK E., BOLAT GÜMÜŞ E.  
Süleyman Demirel Üniversitesi Sağlık Bilimleri Enstitüsü Dergisi, vol.1, no.2, pp.125-133, 2010 (Peer-Reviewed Journal)
- XVIII. **Ethical rules in clinical and other scientific researches**  
ESENLİK E., BOLAT E.  
Süleyman Demirel University Institute of Health Sciences, vol.1, no.1, pp.125-133, 2010 (Peer-Reviewed Journal)

## Books

- I. **Ortodontik Tedavilerin Temporamandibular Eklem Üzerine Etkilerinin Değerlendirilmesi**  
BOLAT GÜMÜŞ E.  
in: Farklı Açılardan Temporamandibular Eklem, Yılmaz Ahmet Behran, Günen Yılmaz Sevcihan, Editor, Akademisyen Yayınevi, Ankara, pp.91-101, 2022
- II. **Ortognatik cerrahide relaps.**  
Yıldırım N., BOLAT GÜMÜŞ E., ALTAY M. A.  
in: Ortognatik Cerrahi; Profil Değişimleri, Stabilité ve Relaps, Yücel ZE, Editor, Türkiye Türkiye Klinikleri Yayınevi, Ankara, pp.65-74, 2021
- III. **ORTOGNATİK CERRAHİDE RELAPS**  
YILDIRIMYAN N., BOLAT GÜMÜŞ E., ALTAY M. A.  
in: Ortognatik Cerrahi; Profil Değişimleri, Stabilité ve Relaps, Yücel Ziver Ergün, Editor, Türkiye Klinikleri Dış

Hekimliği Bilimleri Dergisi, Ankara, pp.65-74, 2021

**IV. Micro-osteoperforations**

Bolat E.

in: Current Approaches in Orthodontics, Işık Aslan B, Editor, IntechOpen, London, pp.73-94, 2019

**V. Micro-osteoperforations**

BOLAT GÜMÜŞ E.

in: Current Approaches in Orthodontics, Belma Işık Aslan, Fatma Deniz Uzuner, Editor, IntechOpen, London, pp.73-94, 2019

## **Papers Published in Refereed Scientific Meetings**

- I. The Role of Radio-Morphological Development of Teeth in Determining Bone Age And Pubertal Growth Curve Stages: A Retrospective Study**  
SEMERCİ Z. M., GÜNEN YILMAZ S., BOLAT GÜMÜŞ E.  
The 24th International Congress Of Dentomaxillofacial Radiology, Brüksel, Belgium, 06 July 2023, pp.42
- II. Düşük Doz Lazer Tedavisi ve Mikroosteoperforasyonların Ortodontik Diş Hareket Hızına Etkileri: Randomize Kontrollü Split-Mouth Çalışması / Effects of Low-Level Laser Therapy and Microosteoperforations on the Rate of Orthodontic Tooth Movement: A Randomized Controlled Split-Mouth Study**  
Bolat Gümüş E., Sadry S., Ekiz Uslu B.  
17. Türk Ortodonti Derneği Uluslararası Sanal Sempozyumu, 28 - 29 November 2021, pp.55
- III. A QUALITATIVE TWITTER ANALYSIS OF THE PATIENT EXPERIENCE WITH INVISIBLE ORTHODONTICS; LINGUAL BRACES VS INVISALIGN**  
HOŞGÖR E., BOLAT GÜMÜŞ E.  
4th International Health Sciences and Life Congress 08-10 April 2021 Burdur/TURKEY, Burdur, Turkey, 8 - 10 April 2021, pp.789-798
- IV. Evaluation of the effects of different types of adhesives used in fixed orthodontic treatment**  
DALMIŞ D., BOLAT GÜMÜŞ E.  
4th International Health Sciences and Life Congress 08-10 April 2021 Burdur/TURKEY, Burdur, Turkey, 8 - 10 April 2021, pp.1233-1247
- V. EVALUATION OF THE EFFECTS OF MINI-IMPLANT-FACILITATED MICRO-OSTEOPERFORATIONS ON THE RATE OF ORTHODONTIC TOOTH MOVEMENT: A SPLIT-MOUTH, RANDOMIZED CONTROLLED TRIAL**  
KINSIZ E., BOLAT GÜMÜŞ E.  
4th International Health Sciences and Life Congress 08-10 April 2021 Burdur/TURKEY, Burdur, Turkey, 8 - 10 April 2021, pp.288
- VI. NONSURGICAL ORTHODONTIC TREATMENT OF A YOUNG ADULT PATIENT WITH MAXILLARY TRANSVERSAL DEFICIENCY**  
KINSIZ E., BOLAT E.  
3rd Congress of BAOS 4th Congress of MOS "The Highs and Lows of Orthodontics – Our Learning Curve", Ohrid, Macedonia, 12 - 15 September 2019
- VII. FUNCTIONAL ORTHODONTIC TREATMENT OF A CLASS II PATIENT WITH SEVERE CROWDING**  
DALMIŞ D., BOLAT E.  
3rd Congress of BAOS 4th Congress of MOS "The Highs and Lows of Orthodontics – Our Learning Curve", 12 - 15 September 2019
- VIII. CLASS III ELASTICS WITH RAPID MAXILLARY EXPANSION DEVICE**  
DALMIŞ D., BOLAT E.  
3rd Congress of BAOS 4th Congress of MOS "The Highs and Lows of Orthodontics – Our Learning Curve", Ohrid, Macedonia, 12 - 15 September 2019
- IX. ORTHODONTIC TREATMENT OF A 12-YEAR OLD PATIENT WITH SEVERE ERUPTION PROBLEM**

HOŞGÖR E., BOLAT E.

3rd Congress of BAOS 4th Congress of MOS "The Highs and Lows of Orthodontics – Our Learning Curve", Ohrid, Macedonia, 12 - 15 September 2019

- X. **Comparison of the Treatment Effects of Forsus Fatigue Resistant Device and Mono Block Appliance in Growing Class II Patients**  
BOLAT E.  
3rd Congress of BAOS 4th Congress of MOS "The Highs and Lows of Orthodontics – Our Learning Curve", 12 - 15 September 2019
- XI. **Evaluation of the Effects of Different Types of Rapid Maxillary Expansion Appliances on Skeletal and Dentoalveolar Structures**  
BOLAT E., EKER E.  
24th BaSS Congress, Tirana, Albania, 9 - 11 May 2019
- XII. **Management of thalassemia-induced facial deformity with bimaxillary segmental osteotomies combined with dermal filler: Report of a case**  
ERDEM A. S., BOLAT E., ÖZALP Ö., ALTAY M. A., SİNDEL A.  
ACBID 13. International Congress with EACMFS Endorsement, 24 - 28 April 2019
- XIII. **Intraoral approach to buccal lipectomy: A case series and reappraisal**  
ERDEM A. S., BOLAT E., ÖZALP Ö., ALTAY M. A., SİNDEL A.  
ACBID 13. International Congress with EACMFS Endorsement, 24 - 28 April 2019
- XIV. **Ortopedik ve Cerrahi Destekli Hızlı Üst Çene Genişletme Yöntemlerinin İskeletsel ve Dentoalveolar Etkilerinin Karşılaştırılması**  
BOLAT E., EKER E.  
TDB 24. Uluslararası Diş Hekimliği Kongresi, Ankara, Turkey, 27 - 30 September 2018
- XV. **DIŞ HEKİMLİĞİ ÖĞRENCİLERİNİN ORTODONTİ UZMANLIĞINA BAKIŞ AÇISININ DEĞERLENDİRİLMESİ ANKET ÇALIŞMASI**  
EKER E., BOLAT E.  
TDB 24. Uluslararası Diş Hekimliği Kongresi, Ankara, Turkey, 27 - 30 September 2018
- XVI. **Interdisciplinary Treatment of a Patient with Cleft Lip, Impacted Canine and Anterior Cross Bite.**  
EROĞLU ALBAYRAK G., BOLAT GÜMÜŞ E., NALÇACI R.  
XIV. International Symposium of the Turkish Orthodontic Society, Eskişehir, Turkey, 2 - 04 November 2015, pp.321
- XVII. **Use of Custom Made Mandibular Midline Distractor for Width Discrepancies of The Mandible**  
FINDIK Y., BAYKUL T., olgun t., BOLAT E.  
AÇBİD 2015, Turkey, 27 - 31 May 2015
- XVIII. **ORTHOGNATHIC SURGICAL CORRECTION OF SEVERE CLASS II MALOCCLUSION A CASE REPORT**  
BOLAT E., TÜRKKAHRAMAN M. H., FINDIK Y., BAYKUL T.  
8. AÇBİD International Congress, Antalya, Turkey, 28 May - 01 June 2014, pp.94
- XIX. **Alveolar Cleft Revision: A Case Series.**  
FINDIK Y., ŞENTÜRK M. F., BAYKUL T., ÖNER B., BOLAT E.  
8. AÇBİD INTERNATIONAL CONGRESS, Antalya, Turkey, 28 May - 01 June 2014, pp.124-125
- XX. **INTERDISCIPLINARY TREATMENT OF A PATIENT WITH SKELETAL CIRCULAR OPEN BITE A CASE REPORT**  
BOLAT E., TÜRKKAHRAMAN M. H., BAYKUL T., FINDIK Y., TÜRKASLAN S. S.  
8. AÇBİD International Congress, Antalya, Turkey, 28 May - 01 June 2014, pp.95
- XXI. **Orthognathic Surgical Correction of Severe Class III Malocclusion A Case Report**  
BOLAT E., TÜRKKAHRAMAN M. H., BAYKUL T., AYDIN M. A., FINDIK Y.  
International Craniofacial Anomalies Congress, Isparta, Turkey, 25 - 27 April 2013, pp.51
- XXII. **Interdisciplinary Treatment of a Patient with Amelogenesis Imperfecta and Open-Bite Malocclusion: A Case Report**  
BOLAT GÜMÜŞ E., TÜRKKAHRAMAN M. H., ÖZDEMİR KISACIK F., EROĞLU E.  
International Craniofacial anomalies Congress, Isparta, Turkey, 25 - 27 April 2013, pp.59-60
- XXIII. **Orthodontic Treatment of a Patient With Maxillary Canine-First Premolar Transposition**

BOLAT GÜMÜŞ E., AKSOY A., KILIÇ G.

88th Congress of European Orthodontic Society, Santiago de Compostela, Spain, 18 - 23 June 2012, pp.293

**XXIV. Treatment of a Skeletal and Dental Class II Patient with Skeletal Anchorage Reinforced Pendulum Appliance**

KILIÇ G., AKSOY A., KAPTAN AKAR N., BOLAT GÜMÜŞ E.

88th Congress of European Orthodontic Society, Santiago de Compostela, Spain, 18 - 23 June 2012, pp.272

**XXV. Treatment of a unilateral impacted maxillary canine with deep bite malocclusion**

BOLAT E., AKSOY A., FINDIK Y.

88th Congress of European Orthodontic Society, Spain, 18 - 23 June 2012, pp.293

## **Metrics**

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