

Fatih ERTEM

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Department of Biomechanics
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Education

- 2011 – 2018** **Doctor of Philosophy (PhD)**
Dokuz Eylul University, Health Science Institute , Department of
Biomechanics (3.69/4.00)
- 2009 – 2011** **Master of Science (M.Sc)**
Dokuz Eylul University, Health Science Institute , Department of
Biomechanics (3.39/4.00)
- 2004 – 2009** **Bachelor of Science (BSc)**
Gazi University, Technical Education Faculty, Department of Automotive
(72,7 / 100)

Work experience

- Research Assitant** Dokuz Eylul University, Health Science Institute , Department of
Biomechanics (December 2010 - January 2018)
- Visiting Researcher** University Of Vermont, Department of Orthopaedics Rehabilitation,
McClure Musculoskeletal Research Center, 95 Carrigan Drive,
438A Stafford Hall, Burlington, VT 05405. (December 2011 - May
2012)
- Work and Travel USA** Harrah's & Harvey's Hotel Casino, South Lake Tahoe
Stateline, Nevada, (June 2008 - September 2008)
- Work and Travel USA** Horizon Casino Resort, South Lake Tahoe Stateline, Nevada,
(August 2008 - September 2008)
- Internship** Dogus Automotive, Ankara, Turkey (February 2008)
- Internship** Renault, Izmir, Turkey (August 2007 – September 2007)
- Work and Travel USA** Waffle House, Destin, Florida, (June 2006 – September 2006)

Work and Travel USA Nautica , Silver Sands Factory Stores, Destin, Florida,
(August 2006 – September 2006)

Publications

- 1) Karaarslan A. A., Acar N., Örgen Y., Aycan H., **Ertem F.**, Sesli E. "A novel nail providing more biomechanical rotational and axial stability than conventional interlocking nail in femur complex fracture model". Eur J Trauma Emerg Surg (2017) 43:491–496. (2017) 43:491–496.
- 2) Karakaşlı A, Acar N, **Ertem F**, Ozmanevra R, Erduran M. A novel anatomical patellar plate for transverse patellar fracture - A biomechanical in-vitro study. Acta Orthop Traumatol Turc. 2017 Jul;51(4):337-341.
- 3) Kar A, Demirkıran ND, Tatari H, Uzun B, **Ertem F**. "Hexagonal grafts in mosaicplasty: Biomechanical comparison of standard cylindrical and novel hexagonal grafts in calf cadaver model" Acta Orthopaedica et Traumatologica Turcica 51 (2017) 160-164.
- 4) Karakaşlı A, Acar N, Özcanhan MH, **Ertem F**. "Biomechanical comparison of pullout strengths of five cortical screw types: An innovative measurement method". Joint Diseases & Related Surgery. 2016 Dec;27(3):138-45.
- 5) Acar N, Karakaşlı A, Özcanhan MH, **Ertem F**, Erduran M. "The Mechanical Effect of Rod Contouring on Rod-Screw System Strength in Spine Fixation". J Korean Neurosurg Soc. 59(5): 425-9.
- 6) Karakaşlı A, Acar N, Karaaslan AA, **Ertem F**, Havıtcıođlu H "A novel adjustable dynamic plate for treatment of long bone fractures: An in vitro biomechanical study". Journal of Clinical Orthopaedics and Trauma. 7S (2016) 177–183.
- 7) Karakaşlı A, Başıcı O, **Ertem F**, Skiak E, Havıtcıođlu H, "Dual Plating for Fixation of Humeral Shaft Fractures: Mechanical Comparison of Various Combinations of Plate Lengths", Acta Orthop Traumatol Turc, Vol 49, No 5 (2015).
- 8) Hapa O, Barber FA, Başıcı O, Horoz L, **Ertem F**, Karakaşlı A, Havıtcıođlu H. "Biomechanical Performance of Hip Labral Repair Techniques". Arthroscopy. 2016 Jun;32(6).
- 9) Karaaslan AA, Karakaşlı A, Aycan H, **Ertem F**, Sesli E. "Biomechanical comparison of three-point bending resistance of titanium and stainless steel locking screws in intramedullary nails". Eklem Hastalık Cerrahisi, 2015;26(3):145-150.
- 10) Karaaslan AA, Aycan H, Mayda A, **Ertem F**, Sesli E. "Biomechanical comparison of femoral intramedullary nails for interfragmentary rotational stability". Joint Diseases & Related Surgery. 2015;26(3):131-136.

- 11) Skiak, E, Karakaşlı A, Başcı O, Satoğlu İS, **Ertem F**, Havıçtıoğlu H. "*Distal femoral derotational osteotomy with external fixation for correction of excessive femoral anteversion in patients with cerebral palsy*". Journal of Pediatric Orthopaedics B, 2015, 2015.
- 12) Cabuk H, Avcı A, Durmaz H, Cabuk FK, **Ertem F**, Şener M. "*The effect of diclofenac on matrix metalloproteinase levels in the rotator cuff*". Arch Orthop Trauma Surg., 134(12):1739-44. 2014.
- 13) Roemhildt ML, Beynnon BD, Gauthier AE, Gardner-Morse M, **Ertem F**, Badger GJ. "*Chronic in vivo load alteration induces degenerative changes in the rat tibiofemoral joint*". Osteoarthritis and Cartilage, 21(2):346-57. 2013.

International Conference Presentation

- 1) Kara A, Çeçen B, **Ertem F**, Bilici G, Havıçtıoğlu H. Loofah and collagen scaffolds with PRP for cartilage tissue engineering: Comparative in vivo study. EORS 2017 Congress (European Orthopaedic Research Society). Poster Sunum. Munich, 2017. (Poster Presentation)
- 2) Karakaşlı A, **Ertem F**, Kızmazoğlu C, Havıçtıoğlu H. Kinematics of a Novel Mobile Telescopic Spinal Fixation System. EORS 2017 Congress (European Orthopaedic Research Society). Sözlü Sunum. Munich 2017. (Oral Presentation)
- 3) Kara A, Uzun B, **Ertem F**, Tatari MH. Hexagonal grafts in system in mosaicplasty: a biomechanical study. Knee Surgery Sport Traumatology Arthroscopy. İspanya 2016 (Oral Presentation)
- 4) Karakaşlı A, Skiak E, Satoğlu İS, Demirkıran ND, **Ertem F**, Havıçtıoğlu H. A Preliminary Persistent Compression Dynamic Plate for Treatment of Long Bone Fractures: An In Vitro Biomechanical Study. EORS Programme; Bristol, 2015. (Oral Presentation).
- 5) **Ertem F**, Havıçtıoğlu Ç, Erduran M, Havıçtıoğlu H. Biomechanical Assessment of a Novel Expandable Hip Screw versus Dynamic Hip Screw. EORS Programme; Bristol, 2015. (Oral Presentation).
- 6) Karaaslan AA, Karakaşlı A, **Ertem F**, Aycan H. Biomechanical Comparison of Titanium and Stainless Steel Locking Screws for Intramedullary Nailing. EORS Programme; Page:140, Bristol, 2015. (Oral Presentation).
- 7) Karakaşlı A, Özcanhan MH, Karaaslan AA, Özmanevra R, **Ertem F**, Yıldız DV. Study of Biomechanical Screw Purchase Performances of Five Types of Cortical Screws: An Innovative Measurement Method. EORS Programme; Page:92, Bristol, 2015. (Oral Presentation).
- 8) **Ertem F**, Hapa O, Başcı O, Horoz L, Karakaşlı A, Havıçtıoğlu H. Biomechanical Performance of Various Hip Labral Repair Techniques. EORS Programme; Bristol, 2015. (Oral Presentation).
- 9) Karakaşlı A, **Ertem F**, Demirkıran ND, Bektaş YE, Havıçtıoğlu H. Biomechanical Assessment of Novel Distal Angular Condylar Femoral Intramedullary Nail. EORS Programme; Bristol, 2015. (Oral Presentation).

- 10) Karakaşlı A, Skiak E, Karaaslan AA, **Ertem F**, Kızmazoğlu C, Havıçtıoğlu H. Pullout Strength of Different Distal Terminal Fixation Constructs in Thoracolumbar Spine Surgery. An in-Vitro Biomechanical Study. EORS Programme; Bristol, 2015. (Oral Presentation).
- 11) Havıçtıoğlu H, Kumtepe E, **Ertem F**. Telemetric Hallux Valgus Deformity Correction Shoes. European Orthopaedic Research Society, EORS 2014 Programme; Page:23, O6.9. Nantes 2014, (Oral Presentation).
- 12) Karakaşlı A, Başcı O, **Ertem F**, Skiak E, Havıçtıoğlu H. Dual plating for fixation of humeral shaft fractures: Mechanical comparison of various combinations of the plate lengt. EORS 2014 Programme; Page:47; P8.8. Nantes, 2014. (Poster).
- 13) Düzel S, **Ertem F**, Taylan O, Uzun B, Havıçtıoğlu H. Biomechanical comparison between a standart intramedullary nail and self guided multiple cannulated intramedullary nail. European Orthopaedic Research Society, EORS 2014 Programme; Page:40, P:1.8. Nantes, 2014 (Poster)
- 14) Roemhildt M, Gauthier A, Beynnon B, **Ertem F**, Gardner -Morse M, Badger G. Chronic In Vivo Varus Loading Induces Degenerative Changes in the Rat Tibiofemoral Joint. Orthopaedic Research Society, ORS 2013 Programme, Paper no:134. Texas 2013. (Oral Presentation).

National Conference Presentation

- 1) Horoz L, Başcı O, Karakaşlı A, Havıçtıoğlu H, Hapa O, **Ertem F**, Demirkıran ND. Kalça Labrum Yırtıklarının Tamirinde Farklı Sütür Tekniklerinin Biyomekanik Olarak Karşılaştırılması. 25. Türk Ortopedi ve Travmatoloji Kongresi; Sf. , Antalya, 2015. Oral Presentation).
- 2) Karakaşlı A, Hapa O, Erduran M, Zhamılov V, Havıçtıoğlu H, **Ertem F**. Kifoz Deformite Tedavisinde, Posterior Spinal Enstruman Distalde Çıkmanın (Pullout) Önlenmesi; Değişik Tespit Yöntemlerinin Biyomekanik Olarak Karşılaştırılması. 24. Ulusal Türk Ortopedi ve Travmatoloji Kongresi Bildiri Kitapçığı; Sf:62, S17-10, Antalya, 2014. (Oral Presentation).
- 3) Karakaşlı A, Başcı O, Skiak E, **Ertem F**, Havıçtıoğlu H. Humerus Diafiz Kırıklarında İkili Plaklama: Çeşitli Plak Uzunlukları Kombinasyonlarının Mekanik Karşılaştırılması. 24. Ulusal Türk Ortopedi ve Travmatoloji Kongresi Bildiri Kitapçığı;, Sf:14, S2-6, Antalya, 2014. (Oral Presentation).
- 4) Karakaşlı A, Başcı O, Skiak E, **Ertem F**, Havıçtıoğlu H. Humerus Diafiz Kırıklarında İkili Plaklama: Çeşitli Plak Uzunlukları Kombinasyonlarının Mekanik Karşılaştırılması. VII. Uluslararası Katılımlı Ulusal Biyomekanik Kongresi Bidiri Kitapçığı; Sf:45, Isparta, 2014. (Oral Presentation).
- 5) Dinçer C, Karakaşlı A, Uzun B, **Ertem F**, Taylan O, Havıçtıoğlu H. Çok Eklemlı Kontrollü Kalça Protezi Tasarımının Geliştirilmesi ve Biyomekanik Özellikleri. VII. Uluslararası Katılımlı Ulusal Biyomekanik Kongresi Bidiri Kitapçığı, S:99, Isparta, 2014. (Oral Presentation).

- 6) Düzel S, **Ertem F**, Taylan O, Uzun B, Havıtcıođlu H. Uzun Kemiklerin Tedavisinde Kendinden Kılavuzlu Çok Kanallı İntramedüler Tespit Çivisinin Geliştirilmesi. Ortopedi-Travmatoloji, Biyomekanik Arařtırmalarda İnovasyon ve AR-GE Etkinlik Kitapçığı; S:84-86. Balçova, 2013 (Oral Presentation).
- 7) Havıtcıođlu H, Kumtepe E, **Ertem F**. Akıllı Telemetrik Halluks Valgus Ayakkabısı. Ortopedi-Travmatoloji, Biyomekanik Arařtırmalarda İnovasyon ve AR-GE Etkinlik Kitapçığı; S:69-71, Balçova, 2013. (Oral Presentation).
- 8) **Ertem F**, Havıtcıođlu Ç, Erduran M, Havıtcıođlu H. Geniřleyebilen Kemik Tespit Çivisinin Geliştirilmesi. Ortopedi-Travmatoloji, Biyomekanik Arařtırmalarda İnovasyon ve AR-GE Etkinlik Kitapçığı; S:38-39, Balçova, 2013 . (Oral Presentation).
- 9) Uzun B, **Ertem F**, Düzel S, Baran Ö, Havıtcıođlu H. Comparison between a standard intramedullary nail and self-guided multiple cannulated intramedullary nail. Journal of Biomechanis, Volume 44, Supplement 1, Page 1. V. Uluslararası Katılımlı Ulusal Biyomekanik Kongresi, Çeřme, 2010. (Oral Presentation).
- 10) Erduran M, Karakařlı A, **Ertem F**, Taylan O, Yıldız DV, Çelik S, Havıtcıođlu H. Biomechanical effects of the distance from the fracture zone to the interlocking fixation screw of intramedullary nail. Journal of Biomechanics, Volume 44, Supplement 1, Page 4. V. Uluslararası Katılımlı Ulusal Biyomekanik Kongresi, Çeřme, 2010. (Oral Presentation).

Book Chapter

DeLee & Drez's Orthopaedic Sports Medicine, 4th Edition. 2-Volume Set. Mark Miller & Stephen Thompson ; Biomechanics of the Knee, Bruce Beynon, **Fatih Ertem**
Hardcover ISBN: 9781455743766 - eBook ISBN: 9781455742219

Projects

" Biomechanical Assessment of a Novel Expandable Hip Screw versus Dynamic Hip Screw, Cadaveric Study " TUBITAK, 111S545. (October 2015-April 2017)

" Comparison between a standard intramedullary nail and self-guided multiple cannulated intramedullary nail ". TUBITAK, 111M342 (November 2011 - May 2013).

Courses and Congress

25. *European Orthopaedic Research Society Annual Meeting (EORS 2017)*
Munich, Germany (September 2017)

23. *European Orthopaedic Research Society Annual Meeting (EORS 2015)*
Bristol, England (September 2015)

VII. *Natioanl Biomechanics Congress*
Isparta, Turkey (October 2014)

22. *European Orthopaedic Research Society Annual Meeting (EORS 2014)*
Nantes, France (July 2014)

Innovation Symposium of Orthopedics-Traumatology and Biomechanical Researches
İzmir, Turkey (June 2013)

VI. *Natioanl Biomechanics Congress*
Sakarya, Turkey (September 2012)

Orthopaedic Research Society Annual Meeting, (ORS 2012) Congress
San Francisco, USA. (February 2012)

Laboratory Animal Science Symposium, Symposium
Izmir, Turkey (October 2010)

V. *Natioanl Biomechanics Congress*
Izmir, Turkey (September 2010)

Research-Innovation-Patent in Universities, Symposium
Izmir, Turkey (February 2010)

Research-Innovation-Patent in Universities, Workshop
Izmir, Turkey (February 2010)

Computer Skill

Operating Systems:	Windows
Software / Applications	Microsoft Office, AutoCAD, Ansys 15.0, Solidworks, Oracle, SPSS 20.
Markup Languages:	HTML
Databases:	Microsoft