**Curriculum Vitae and List of Published Works**

I am an orthopaedic surgeon. I graduated from Istanbul University, Cerrahpaşa Faculty of Medicine in 2001 and started as a resident in Istanbul University Istanbul Faculty of Medicine, Department of Orthopedics and Traumatology. In 2006, I became an orthopedic specialist by writing my thesis on “Kinematic and Kinetic Comparisons of Extensive Surgical Release and Ponseti Method for Treatment.” In 2007, I worked at Cologne University, Faculty of Medicine as a clinical observer for one month. I passed the European Board of Orthopaedics and Traumatology (EBOT) exam in 2010. After 2012, I started working as a specialist at Istanbul University, Istanbul Faculty of Medicine, Department of Orthopedics and Traumatology. In 2016, I attended a travelling fellowship program in South America on Pediatric Orthopedics with a scholarship granted by the European Paediatric Orthopaedic Society. I became an Associate Professor in 2017.

I established the Bilgili Fixator Company with the support of the Scientific and Technological Research Council of Turkey (TÜBİTAK) 1512 Project and designed a locked semicircular external fixator, and applied for a patent. Later, I also had different patent applications for implants. In 2017, I received Pediatric Orthopedics and Gait Analysis training from Prof. Dr. Thomas Dreher at Heidelberg Faculty of Medicine.

I have been involved in two projects under the coordination of Boğaziçi University Department of Biomedical Engineering: 1. A TÜBİTAK project called “3D Printing of Custom Designed Carbon Nanotube (CNT)/Poly(lactide-co-glycolide) (PLGA) Implants,” 2. An infrastructure project about biosensors and neuroprosthesis presented to the Ministry of Development. These projects are under application phase. They are not started.

I have prepared a Master’s Degree Program entitled “Orthopaedic and Biomedical Neurotechnology”.

**Some of the publications:**

Memiş A, Albayrak S, Bilgili F. A new scheme for automatic 2D detection of spheric and aspheric femoral heads: A case study on coronal MR images of bilateral hip joints of patients with Legg-Calve-Perthes disease. Comput Methods Programs Biomed. 2019 Jul;175:83-93. doi: 10.1016/j.cmpb.2019.04.001. Epub 2019 Apr 1.

Kaya CS, Bilgili F, Akalan NE, Temelli Y, Ateş F, Yucesoy CA. Intraoperative experiments combined with gait analyses indicate that active state rather than passive dominates the spastic gracilis muscle's joint movement limiting effect in cerebral palsy. Clin Biomech (Bristol, Avon). 2019 Jun 7;68:151-157. doi: 10.1016/j.clinbiomech.2019.06.005. [Epub ahead of print]

Gulenc Bariş, Akalan Nazif Ekin, Temelli Yener, Kuchimov Shavkat, Bilgili Fuat (2015) Investigation of two different psoas releasing procedures on contribution of stiff knee gait pattern for children with cerebral palsy: Over the pelvic brim and at the lesser trochanter. ESMAC Abstracts 2015 / Gait & Posture 42S (2015) S1–S101

Kaya Cemre Su, Bilgili Fuat, Temelli Yener, Ates Filiz, Yucesoy Can A. Co-activation of other muscles elevates spastic gracilis forces in agreement with the typical limited knee extension condition in CP. European Orthopaedic Research Society Annual Meeting

Akalan Nazif Ekin, Apti Adnan, Kuchimovc Shavkat, Leblebici Gokce, Kubra Onerge Kubra, Bilgili Fuat, Bacak İsmail, Miller Freeman, Temelli Yener Increased femoral anteversion related biomechanical abnormalities: Gait and hypermobility ESMAC Abstracts 2017 / Gait & Posture

Apti Adnan, Akalan Nazif Ekin, Kuchimovc Shavkat, Kilicoglu Onder Ismet, Leblebici Gokce, Bacak İsmail, Onerge Kubra, Bilgili Fuat, Kurt Aslihan, Temelli Yener, Miller Freeman. Increased femoral anteversion related biomechanical abnormalities: Hypermobility, foot posture and pressure ESMAC Abstracts 2017 / Gait & Posture

Leblebici Gokce, Akalan Nazif Ekin, Apti Adnan, Kuchimovc Shavkat, Bacak İsmail, Bilgili Fuat, Temelli Yener, Onerge Kubra, Miller Freeman. Increased femoral anteversion related biomechanical abnormalities: Lower extremity functionality, falling frequencies and anterior knee and low back pain. ESMAC Abstracts 2017 / Gait & Posture

Ertürk G, Akalan NE, Evrendilek H, Karaca G, Bilgili F. O 100 - Does one leg standing duration have relation with GMFM scores and stability in stance phase for Hemiplegic children? Gait Posture 2018 Jun 25. pii: S0966-6362(18)30892-0.

Kaya CS, Bilgili F, Akalan NE, Temelli Y, Ates F, Yucesoy CA. O 043 - Mechanics of spastic semitendinosus altered by intermuscular interactions elevate its contribution to pathological resistance against knee extension during gait. Gait Posture. 2018 Jun 28. pii: S0966-6362(18)30788-4.

Önerge K, Akalan NE, Sert R, Kuchimov S, Leblebici G, Erturk G, Bilgili F. O 093 - Describing effects of reduced forefoot sensation on foot pressure distribution: Plot study. Gait Posture.2018 Jun26. pii:S0966-6362(18)30885-3.

Sert R, Akalan NE, Kurt A, Apti A, Kuchimov S, Bilgili F. P 026 - The effects of the in-toeing gait pattern on plantar pressure behavior and foot posture. Gait Posture. 2018 Jul 18. pii: S0966-6362(18)30969-X.

Akalan NE, Apti A, Kurt A, Sert R, Onerge K, Leblebici G, Kuchimov S, Bilgili F, Temelli Y, Miller F. P 059- The influence of hypermobility on children with increased femoral anteversion: Static and dynamic foot pressure behavior. Gait Posture. 2018 Jul 24. pii: S0966-6362(18)30997-4.

Evrendilek H, Akalan NE, Sert R, Kuchimov S, Karaca G, Ertürk G, Bilgili F, Lucareli P. P 072 - Describing the influences of using insoles on gait parameters in children with increased femoral anteversion and pes-planovalgus: plot study. Gait Posture. 2018 Jul 24. pii: S0966-6362(18)31063-4

Sardoğan C, Akalan NE, Bilgili F, Sert R, Leblebici G, Önerge K, Karaca G, Evrendilek H. P 141- What is the effect on the popliteal angle of femoral anteversion increased in healthy individuals? Gait Posture. 2018 Jul 31. pii: S0966-6362(18)31131-7.

Akalan NE, Karaca G, Apti A, Kuchimov S, Bilgili F, Temelli Y, Miller F, Leblebici G, Onerge K, Erturk G, Evrendilek H. O 098- Distinguishing the influences of increased femoral anteversion from hypermobility during walking for neurologically intact individuals. Gait Posture. 2018 Jul 26. pii: S0966-6362(18)30890-7.

**Patent Applications**

1. Semicircular external fixator system with locking screws, patent number: 2017/04930

2. Antimicrobial dense isotonic solution, patent number: 2018/06651

3. Telescopic locking plate model, patent number: 2018/10274

4. Innovation in environment-friendly antibacterial fabric production method, patent number: 2018/08516