

## Asst. Prof. NURHAN ERBİL

### Personal Information

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### International Researcher IDs

ORCID: 0000-0003-1478-5905

Publons / Web Of Science ResearcherID: I-8392-2013

Yoksis Researcher ID: 202387

### Education Information

Post Doctorate, Auburn University, Samuel Ginn College Of Engineering Electrical Engineering, Mr1 Research Center, United States Of America 2011 - 2013

Doctorate, Hacettepe University, Sağlık Bilimleri Enstitüsü, Biyofizik, Turkey 2004 - 2010

Postgraduate, Hacettepe University, Sağlık Bilimleri Enstitüsü, Biyofizik, Turkey 2001 - 2004

Undergraduate, Middle East Technical University, Fen Edebiyat Fakultesi, Fizik, Turkey 1996 - 2001

### Foreign Languages

English, B2 Upper Intermediate

### Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Biophysics

### Academic Titles / Tasks

Research Assistant, Hacettepe University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2013 - Continues

Expert, Auburn University, Samuel Ginn College Of Engineering, Electrical And Computer Engineering, 2011 - 2013

Research Assistant, Hacettepe University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2001 - 2011

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

- I. An Exploratory Study of the Effect of Tinnitus on Listening Effort Using EEG and Pupillometry**  
SENDESEN E., KILIÇ S., ERBİL N., Aydın Ö., Turkyılmaz D.  
Otolaryngology - Head and Neck Surgery (United States), vol.169, no.5, pp.1259-1267, 2023 (SCI-Expanded)
- II. The mismatch negativity responses of individuals with tinnitus with normal extended high-frequency hearing-is it possible to use mismatch negativity in the evaluation of tinnitus?**  
Sendesen E., ERBİL N., TÜRKİYILMAZ M. D.

EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY, vol.279, no.7, pp.3425-3434, 2022 (SCI-Expanded)

- III. **Heart Rate Variability During Nocturnal Sleep and Daytime Naps in Patients With Narcolepsy Type 1 and Type 2**  
ASLAN S., ERBİL N., Tezer F. İ.  
JOURNAL OF CLINICAL NEUROPHYSIOLOGY, vol.36, no.2, pp.104-111, 2019 (SCI-Expanded)
- IV. **Coherence analysis of EEG during cataplexy attacks in narcoleptic adult patients**  
ERBİL N., Tezer F. İ.  
NEUROLOGICAL SCIENCES AND NEUROPHYSIOLOGY, vol.35, no.3, pp.119-126, 2018 (SCI-Expanded)
- V. **A reduction of sleep spindles heralds seizures in focal epilepsy**  
TEZER F. İ., REMİ J., ERBİL N., NOAÇTAR S., SAYGI S.  
CLINICAL NEUROPHYSIOLOGY, vol.125, no.11, pp.2207-2211, 2014 (SCI-Expanded)
- VI. **Event-related potentials to changes of rhythmic unit: differences between musicians and nonmusicians**  
Ungan P., BERKI T., ERBİL N., Yagcioglu S., YÜKSEL M., Utkucal R.  
NEUROLOGICAL SCIENCES, vol.34, no.1, pp.25-39, 2013 (SCI-Expanded)
- VII. **Lateralisation of sound in temporal-lobe epilepsy: Comparison between pre- and postoperative performances and ERPs**  
TEZER F. İ., İlhan B., ERBİL N., SAYGI S., Akalan N., Ungan P.  
CLINICAL NEUROPHYSIOLOGY, vol.123, no.12, pp.2362-2369, 2012 (SCI-Expanded)
- VIII. **Changes in the alpha and beta amplitudes of the central EEG during the onset, continuation, and offset of long-duration repetitive hand movements**  
Erbil N., UNGAN P.  
BRAIN RESEARCH, vol.1169, pp.44-56, 2007 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Evaluation of the groove for vertebral artery using CT angiography**  
FIRAT A., ERBİL N., GÖÇMEN R.  
Anatomy, vol.11, no.2, pp.61-66, 2017 (Peer-Reviewed Journal)
- II. **Connectivity measures in the Poffenberger paradigm indicate hemispheric asymmetries**  
ERBİL N., YAĞCIOĞLU S.  
FUNCTIONAL NEUROLOGY, vol.31, no.4, pp.249-256, 2016 (ESCI)

### Refereed Congress / Symposium Publications in Proceedings

- I. **EEG findings in different listening condition of individuals who have normal hearing.**  
SENDESEN E., TÜRKYILMAZ M. D., ERBİL N.  
EFAS 2019, 22 - 25 May 2019
- II. **Investigation of Mismatch Negativity Results Using Multi Feature Paradigm of Individuals with Subjective Tinnitus**  
SENDESEN E., TÜRKYILMAZ M. D., ERBİL N.  
EFAS 2019, 22 - 25 May 2019
- III. **Motor skills and their correlations with social and cognitive features in children with autism spectrum disorder**  
KARABUCAK b., ÇAK ESEN H. T., ÇENGEL KÜLTÜR S. E., KARAOKUR R., UYSAL ATASAVUN S., ERBİL N., KİRAZLI M. Ç.  
10th International Congress on Psychopharmacology 6th International Symposium on Child and Adolescent Psychopharmacology, Antalya, Turkey, 25 - 29 April 2018, vol.28, pp.21
- IV. **An Examination of Cortical Traces of Motor Overflow in School Age ADHD by Using ERD/ERS:**

## Preliminary Results

karaokur r., ÇAK ESEN H. T., ERBİL N.

27th TURKISH CHILD AND ADOLESCENT PSYCHIATRY CONGRESS, İzmir, Turkey, 10 - 13 May 2017, vol.24, pp.130

- V. **Dikkat eksikliği hiperaktivite bozukluğu olan çocuklarda motor taşma hareketinin kortikal eşleşmeler açısından incelenmesi**  
ERBİL N., karaokur r., ÇAK ESEN H. T.  
15. ULUSAL SİNİRBİLİM KONGRESİ, Turkey, 7 - 10 May 2017, vol.7
- VI. **Retrospective Analysis of Variations of Sulcus Arteria Vertebralis and Variations of Dimensions of Arteria Vertebralis at his level detected by CT Angiography Technique**  
FIRAT A., ERBİL N., GÖÇMEN R.  
7th Global Neurologist Annual Meeting on Neuro Surgery and Interventional Radiology, 22 - 24 August 2016
- VII. **Ponticulus posticus insidansının BT anjiyografi yöntemiyle retrospektif analizi**  
FIRAT A., ERBİL N., GÖÇMEN R.  
Antropoloji, Radyoloji & Anatomi Kongresi (ARA 2015), Ankara, Turkey, 12 - 13 November 2015
- VIII. **Temporally quasi stable spatial configurations in fMRI reveal scale free dynamics similar to that of EEG microstates**  
ERBİL N., DESHPANDE G.  
ISMRM 21st Annual Meeting and Exhibition, 20 - 26 April 2013
- IX. **A framework for investigating decision making in the brain with high spatio temporal resolution using simultaneous EEG fMRI and joint ICA**  
KYATHANAHALLY P., ERBİL N., CALHOUN V., DESHPANDE G.  
ISMRM 21st Annual Meeting and Exhibition, 20 - 26 April 2013
- X. **Investigation of the neural basis of the Default Mode Network using parallel Independent Component Analysis of simultaneous EEG fMRI data**  
KYATHANAHALLY P., ERBİL N., ANNA F., XI Z., DESHPANDE G.  
ISMRM 21st Annual Meeting and Exhibition, in Salt Lake City, 20 - 26 April 2013
- XI. **Microstate Analysis of Spontaneous BOLD signal**  
ERBİL N., DESHPANDE G.  
18th Organization for Human Brain Mapping, 10 - 14 June 2012
- XII. **Event related Reactions of Musicians and Nonmusicians in response to rhythmical changes**  
UNGAN P., BERKİ O. T., ERBİL N., YÜKSEL M., YAĞCIOĞLU S.  
25. Ulusal Klinik Norofizyoloji, EEG-EMG Kongresi, Turkey, 18 - 20 April 2009

## Supported Projects

FIRAT A., GÖÇMEN R., ERBİL N., Project Supported by Higher Education Institutions, Sulcus arteria vertebralis varyasyonları ve arteria vertebralis'in bu seviyedeki boyutlarının BT anjiyografi tekniği ile retrospektif analizi, 2016 - 2017

FIRAT A., ERBİL N., GÖÇMEN R., Project Supported by Higher Education Institutions, Yard. Doç. Dr. Ayşegül Fırat'ın Öğretim Üyeliğine Geçiş Sonrası Teşvik Projesi, 2016 - 2017

## Metrics

Publication: 22

Citation (WoS): 71

Citation (Scopus): 76

H-Index (WoS): 3

H-Index (Scopus): 3

## **Non Academic Experience**

Auburn University Samuel Ginn College of Engineering MRI Research Center  
Hacettepe Universitesi