

# ONUR TURAN BAYAZIT, Ph.D.

## Associate Professor Dr.

onur.bayazit@gmail.com

İstanbul Aydın University  
Faculty of Medicine  
Physiology&Biophysics Department  
Küçükçekmece/İstanbul/Turkey

Mobile: +90 505 434 40 89  
<http://www.researcherid.com/rid/O-1137-2015>  
<http://orcid.org/0000-0002-7761-2617>

### EDUCATION

#### **Dokuz Eylül University**

Ph.D., Physiology

Dissertation: Does the drummer's brain work differently than the others? An electrophysiological approach.

Advisor: Prof. Dr. Osman Açıkgöz

İzmir, Turkey

June 2019

#### **Dokuz Eylül University**

Ph.D., Biophysics

Dissertation: Dynamic effects of stimulus parameters on EEG

Advisor: Prof. Dr. Murat Özgören

İzmir, Turkey

Aug 2009

#### **Celal Bayar University**

MSci, Physiology

Dissertation: Paw preference distribution in male and female rats; cerebral asymmetry and lateralization of factors in the blood-brain barrier

Advisor: Prof. Dr. Necip Kutlu

Manisa, Turkey

Dec 2002

#### **Hacettepe University**

B.A., Biology

Ankara, Turkey

Aug 1999

### RESEARCH EXPERIENCE

#### **Dokuz Eylül University Physiology Dept.**

*Researcher*, Project Coordinator: MSci.Onur Tütüncü

Dart shooting performance and electrophysiological responses displayed under stress of temperament types in sportsmen

İzmir, Turkey

2017-2020

*Graduate Researcher*, Advisor: Prof. Osman Açıkgöz

Does the drummer's brain work differently than the others? An electrophysiological approach

2016-2019

*Researcher*, Project Coordinator: Psy. Merve Boğa

Assessment of the strengths of different emotional state manipulation methods in developing specific emotions examined. participant

2015-2017

#### **İzmir University Biophysics Dept.**

*Researcher*, Project Coordinator: Assoc. Prof. Cengiz Karagöz

Pre-performance routine relationship with performance outcomes determined by electrophysiological and behavioral modeling in archers and shooters

İzmir, Turkey

2013-2015

**İzmir University Biophysics Dept. (cont)** İzmir, Turkey  
*Researcher*, Project Coordinator: Prof. Deniz Gökengin 2013-2016  
Electrophysiological evaluation of the psychometric approach and its impact on the peripheral and central nervous system of HIV infection

*Project Coordinator*: Onur Bayazıt 2012-2015  
Electrophysiological evaluation of attention under stress

*Researcher*, Project Coordinator: Prof. Atalay Arkan 2012-2014  
Psychophysiological arousal, personality, and sportive performance

**Dokuz Eylül University Biophysics Dept.** İzmir, Turkey  
*Researcher*, Project Coordinator: Prof. Murat Özgören 2010-2012  
Dynamic effects of stimulus parameters on EEG: an Advanced analysis module

*Researcher*, Project Coordinator: Prof. Ferudun Dorak 2009-2010  
Physiological reactions and related cognitive processes selected from the international affective picture system

*Researcher*, Project Coordinator: Prof. Necati Gökmen 2007-2010  
Effects of anesthesia on brain biophysics on memory dynamics

*Researcher*, Project Coordinator: Prof. Murat Özgören 2007-2010  
An electrophysiological investigation of brain plasticity and capacity utilization in sensory impaired individuals

*Graduate Researcher*, Advisor: Prof. Murat Özgören 2006-2009  
Dynamic effects of stimulus parameters on EEG

**Celal Bayar University Physiology Dept.** Manisa, Turkey  
*Graduate Researcher*, Advisor: Prof. Necip Kutlu 2000-2002  
Lateralization of paw preference distribution, cerebral asymmetry, and factors involved in blood-brain barrier in male and female rats

*Researcher*, Project coordinator: Prof. Necip Kutlu 2000-2001  
Changes in permeability of blood-brain barrier by osmotic agents

## **SKILLS and TECHNIQUES**

- Set up an EEG/EP/ERP laboratory
- EEG/EP/ERP analysis with amplifier's software and EEGLab
- Oscillative approach to EP and ERPs
- EEG source analysis with LORETA/sLORETA
- EEG frequency analysis
- Neurofeedback research design and data analysis
- Biofeedback research design and data analysis
- Galvanic skin response/electrodermal activity
- Dichotic listening and brain asymmetry
- Basic statistical analysis related to these data

## LEADERSHIP EXPERIENCE

### **İstanbul Aydın University Medical Faculty English Program**

- Head of Biophysics Department

İstanbul, Turkey  
Aug 2020-Present

### **İstanbul Aydın University Medical Faculty Turkish Program**

- Vice Editor of İstanbul Aydın University Medical Journal
- ERASMUS+ & ECTC Coordinator
- Web page administrator

İstanbul, Turkey  
Apr 2018-Present  
Mar 2018-Present  
July 2018-Present

### **İzmir University Medical Faculty**

- Coordinator of Neurological Sciences Committee
- Clinical Researches Ethical Committee Reporter
- Basic Medical Research Ethical Committee Reporter
- Vice Editor of İzmir Medical Journal
- Administrative Board Member of Faculty
- Head of Biophysics Department

İzmir, Turkey  
Sep 2013-July 2016  
Aug 2013-July 2016  
July 2013-July 2016  
June 2013-July 2016  
Apr 2012-July 2016  
Mar 2012-July 2016

### **Dokuz Eylül University Medical Faculty**

- Scholarship Commission Member

İzmir, Turkey  
June 2010-Mar 2012

## ABSTRACTS

Boğa M, Koyuncu M, **Bayazıt TO**, Kaça G. Comparison of mood induction procedures: Film, IAPS, imagery. 2nd International Convention of Psychological Science (ICPS), I-020, Vienna, Austria, March 23-25, 2017.

Üngür G, **Bayazıt O**, Tok S, Bakır, M. The effect of trait emotional intelligence and personality on heart rate variability and skin conductance response in recovery periods after stress manipulation. 21st Annual Congress of the European College of Sports Science (ECSS) Book of Abstracts, p.487, Vienna, Austria, July 6-9, 2016.

Üngür G, **Bayazıt O**, Türkmen S, Arkan, A. Psychophysiological arousal individual differences and performance in athletes. 20th Annual Congress of the ECSS Book of Abstracts, p.59, Malmö, Sweden, June 24-27, 2015.

Üngür G, **Bayazıt O**, Tok S, Bakır M. Emotional intelligence, personality traits and psychophysiological stress responses during anticipation of the public speaking task in elite athletes. 19th Annual Congress of the ECSS Book of Abstracts, p.232, Amsterdam, Netherlands, July 2-5, 2014.

Başoğlu MT, **Bayazıt O**, Üngür G, Gökengin D. The effects of HIV infection on electrodermal activity (EDA) and visual event-related potentials (VERPs): Preliminary results. 14th European AIDS Conference Abstracts Book, Brussels, Belgium, October 16-19, 2013.

**Bayazıt O**, Öniz A, Akıncı Ç, Kutluk F, Özgören M. Dichotic tonal processing in musicians. *Psychophysiology*, 48(1); Society for Psychophysiological Research 51st Annual Meeting Abstracts, p.S42, Boston-Massachusetts, USA, September 14-18, 2011.

Özgören M, **Bayazıt O**, Gökmen N, Kocaaslan S, Öniz A. Determining consciousness in terms of brain responsiveness. 8th International Symposium on Memory and Awareness in Anesthesia, p.353P, Milwaukee-Wisconsin, USA, June 02-05, 2011.

Gökmen N, **Bayazıt O**, Öniz A, Özgören M. Target-controlled propofol infusion linearly suppresses auditory evoked potentials and bispectral index. 8th International Symposium on Memory and Awareness in Anesthesia, p.340P, Milwaukee-Wisconsin, USA, June 02-05, 2011.

Öniz A, Erdoğan İ, **Bayazıt O**, Özgören M. An examination of behavioral odor data in sensory disabled individuals. Human Chemosensation 2010, p.32, Dresden, Germany, December 02-04, 2010.

Özgören M, **Bayazıt O**, Öniz A. Phase shift effect on the dichotic paradigm. International Journal of Psychophysiology, 77(3); Proceedings of the 15th World Congress of Psychophysiology, p.293, Budapest, Hungary, September 01-04, 2010.

Öniz A, Güdücü Ç, **Bayazıt O**, Özgören M. The evaluation of learning via event-related tactile potentials. International Journal of Psychophysiology, 77(3); Proceedings of the 15th World Congress of Psychophysiology, p.297, Budapest, Hungary, September 01-04, 2010.

Özgören M, **Bayazıt O**, Kocaaslan S, Gökmen N, Öniz A. Probing into cognitive control: Auditory processes in different conscious states. International Journal of Psychophysiology, 77(3); Proceedings of the 15th World Congress of Psychophysiology, p.225, Budapest, Hungary, September 01-04, 2010.

Özgören M, **Bayazıt O**, Aydın B, Öniz A. Assessment of neural capacity in the blind. NeuroMath Advanced Methods for the Estimation of Human Brain Activity and Connectivity Proceedings Book, p.30, Leuven-Heverlee, Belgium, March 12-13, 2009.

**Bayazıt O**, Erdogan U, Oniz A, Ozgoren M. Evaluation of sound and ear advantage relationship via Turkish consonant-vowel dichotic syllables paradigm. International Journal of Psychophysiology, 69(3); Proceedings of the 14th World Congress of Psychophysiology, p.294, St. Petersburg, Russia, September 8-13, 2008.

Levin EA, **Bayazıt O**, Oniz A, Ozgoren M. EEG correlates of strategies used for making choice in uncertain conditions. International Journal of Psychophysiology, 69(3); Proceedings of the 14th World Congress of Psychophysiology, p.189, St. Petersburg, Russia, September 8-13, 2008.

Gökmen A, **Bayazıt O**, Kocaaslan S, Yıldırım A, Akkan T, Özkurt A, Öniz A, Özgören M. Electrophysiology during general anesthesia. International Journal of Psychophysiology, 69(3); Proceedings of the 14th World Congress of Psychophysiology, p.295, St. Petersburg, Russia, September 8-13, 2008.

Akdeniz G, **Bayazıt O**. Fiziksel basit bir uyarın olarak ses uyarınına karşı N100 yanıtları ve işitme hassasiyeti ile ilişkisinin irdelenmesi. Türk Fizik Derneği 24. Uluslararası Fizik Kongresi Özet Kitapçığı, s. 689-690, Malatya, Turkey, August 28-31, 2007.

Öniz A, **Bayazıt O**, Başar E. Occipital delta responses in face detection. International Journal of Psychophysiology, 61(3); Proceedings of the 13th World Congress of Psychophysiology, p.353, İstanbul, Turkey, August 28-September 2, 2006.

## PUBLICATIONS

Kocaaslan Atli S, Olgaç Dündar N, **Bayazit O**, Evirgen Esin N, Erdoğan U, Çatli G, Kahya MC, Dündar BN. Auditory event-related potentials demonstrate early cognitive impairment in children with subclinical hypothyroidism. *J Pediatr Endocrinol Metab*. 2019. doi: 10.1515/jpem-2018-0463.

**Bayazit O**, Üngür G. Neuroelectric responses of sportsmen and sedentaries under cognitive stress. *Cognitive Neurodynamics*, 2018;12:295–301. <https://doi.org/10.1007/s11571-018-9478-0>

**Bayazit O**, Kocaaslan S, Tuncel M, Karagulle A, Gokengin D. Effects of HIV on Neuroelectric responses: AERP and EDA. *Journal of Neurological Sciences (Turkish)*, 2017;34:(4)# 60:291-300. <https://doi.org/10.24165/jns.9860.16>

Yonguc GN, Kurtulus A, **Bayazit O**, Adiguzel E, Unal I, Demir S, Acar K. Estimation of stature and sex from sternal lengths: An autopsy study. *Anat Sci Int*, 2015;90(2):89-96.

Atli Kocaaslan S, Türe S, **Bayazit O**, Akhan G. Interhemispheric correlation and epileptic seizures: Are they related? A preliminary retrospective study. *Journal of Neurological Sciences (Turkish)*, 2015;2:361-371.

Binboga E, Guven S, Çatıkkaş F, **Bayazit O**, Tok S. Psychophysiological responses to competition and the big five personality traits. *J Hum Kinet*, 2012; 33:139-147.

Kutlu N, **Bayazit TO**, Mutlu F. Distribution of paw preference in female and male rats: Assessed by a modified version food-reaching test. *Kafkas Univ Vet Fak Derg*, 2012; 18 (4): 565-569.

Ozgoren M, **Bayazit O**, Oniz A, Hugdahl K. Amplitude and phase-shift effects on dichotic listening performance. *Int J Audiology*, 2012; 51(8):591-596.

Levin E, **Bayazit O**, Öniz A, Özgören M. EEG correlates of cognitive strategies: Forced choice in uncertain conditions. *Journal of Neurological Sciences*, 2010; 27(3):264-278.

Özgören M, **Bayazit O**, Gökmen N, Öniz A. Spectral pattern analysis of propofol-induced spindle oscillations in the presence of auditory stimulations. *The Open Neuroimaging Journal*, 2010; 9:121-129.

Özgören M, **Bayazit O**, Kocaaslan S, Gökmen N, Öniz A. Brain function assessment in different conscious states. *Nonlinear Biomedical Physics*, 2010; 4(1): S1-S6.

**Bayazit O**, Öniz A, Hahn C, Güntürkün O, Özgören M. Dichotic listening revisited: Trial-by-trial ERP analysis reveals intra- and interhemispheric differences. *Neuropsychologia*, 2009; 47(2):536-545.

Özgören M, Erdoğan U, **Bayazit O**, Taşlıca S, Öniz A. Brain asymmetry measurement using EMISU (Embedded interactive stimulation unit) in applied brain biophysics. *Computers in Biology and Medicine*, 2009; 39(10):879-888.

Gökmen N, Öniz A, **Bayazıt O**, Erdoğan U, Akkan T, Özkurt A, Özgören M. The assessment of acoustical and electromagnetic noise on EEG monitorization during spinal surgery operations. Journal of Neurological Sciences, 2009; 26(4),472-483.

Kutlu N, Vatansever HS, **Bayazıt TO**, Ekerbiçer N, Tan U. Blood-Brain Barrier In Right and Left-Pawed Female Rats Assessed By A New Staining Method. The International Journal of Neuroscience, 2002; 112:1035-1044.

## TEACHING EXPERIENCE

### **İstanbul Aydın University**

İstanbul, Turkey

*Associate Professor Dr.*

Medical Faculty, Physiology (Pre-clinic)

- 1<sup>st</sup>-year students 2017-Present
- 2<sup>nd</sup>-year students 2017- Present

Healthy Sciences Faculty, Physiology

- 1<sup>st</sup>-year students 2017- Present

### **İzmir University**

İzmir, Turkey

*Assistant Professor Dr.*

Medical Faculty, Biophysics (Pre-clinic)

- 1<sup>st</sup>-year students 2012-2016
- 2<sup>nd</sup>-year students 2013-2016
- 3<sup>rd</sup>-year students 2014-2016

Psychology Department, Physiology

- 1<sup>st</sup>-year students 2013-2016

### **Dokuz Eylül University**

İzmir, Turkey

*Instructor Dr.*

Medical Faculty, Problem Based Learning

- 1<sup>st</sup>-year students 2009-2012
- 2<sup>nd</sup>-year students 2011-2012
- 3<sup>rd</sup>-year students 2011-2012

Biophysics M.Sci. Program

- Fundamentals of Biophysics 2009-2010
- Bioelectricity Lab. 2009-2010

### **Celal Bayar University**

Manisa, Turkey

*Research Assistant*

Medical Faculty, Physiology Lab.

- 2<sup>nd</sup>-year students 1999-2004

## RELATED PROFESSIONAL EXPERIENCE

### **Clinic Agora Psychological Consultancy Clinic**

İzmir, Turkey

*Technical and Scientific Consultant*

- Neurofeedback and Biofeedback system specialist and data analyst 2015-2016

## PROFESSIONAL ASSOCIATIONS

- Turkish Physiological Sciences Association 2000-Present
- Brain Dynamics, Cognition and Psychophysiology Association 2002-Present
- Psychophysiology and Neuropsychology Association 2007-Present
- Turkish Biophysics Association 2008-Present

## REFERENCES

Onur Güntürkün, Ph.D.  
Professor  
Biopsychology  
Faculty of Psychology  
Ruhr University Bochum,  
Bochum, Germany  
+49 0 234 32 26213  
onur.guentuerkuen  
@ruhr-uni-bochum.de

René Westerhausen, Ph.D.  
Professor  
Department of Psychology  
University of Oslo  
Postboks 1094 Blindern  
0317 Oslo, Norway  
+47 22 84 52 30  
rene.westerhausen  
@psykologi.uio.no

Kenneth Hugdahl, Ph.D.  
Professor  
Department of Biological  
and Medical Psychology  
University of Bergen  
Postboks 7807  
5020 Bergen, Norway  
+47 55 58 62 77  
hugdahl@psybp.uib.no