Asst. Prof. Buse Merve Ürgen

Personal Information

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Biography

Buse Merve Ürgen is an Assistant Professor at the Department of Psychology, TED University. She received her PhD in Neuroscience from Bilkent University, Turkey in 2021. She did her BA in Psychology at Bilkent University (2011), and MS in Cognitive Neuroscience at University College London, UK (2012). Following her PhD, she worked as a postdoctoral researcher at Aysel Sabuncu Brain Research Center and National Magnetic Resonance Research Center (UMRAM). Her primary research interest is to understand how top-down mechanisms such as expectation and attention affect visual perception and decision-making processes using psychophysics, computational modeling and functional magnetic resonance imaging (fMRI).

Education Information

Doctorate, Ihsan Dogramaci Bilkent University, Instıtute Of Engıneerıng And Natural Scıences, Neuroscience, Turkey 2014 - 2021
Postgraduate, University College London, Faculty of Brain Sciences, Institute of Cognitive Neuroscience, Cognitive Neuroscience, England 2011 - 2012
Undergraduate, Ihsan Dogramaci Bilkent University, Faculty Of Economıcs, Admınıstratıve And Socıal Scıences, Department Of Psychology, Turkey 2006 - 2011

Dissertations

Doctorate, Behavioral and Computational Investigation of the Effect of Prior Knowledge on Visual Perception, Ihsan Dogramaci Bilkent University, Graduate School of Engineering and Science, Neuroscience, 2021
Postgraduate, Taking the measure of the factors which influence the assignment of agency during online motor control , University College London, INSTITUTE OF COGNITIVE NEUROSCIENCE, COGNITIVE NEUROSCIENCE, 2012

Research Areas

Experimental Psychology, Cognitive Science, Neural Networks, Neurosystems

Academic Titles / Tasks

Assistant Professor, TED University, Faculty of Arts and Sciences, Department of Psychology, 2022 - Continues

Academic and Administrative Experience

Erasmus Program Department Coordinator, TED University, Faculty Of Arts And Sciences, Department Of Psychology, 2023 - Continues

Courses

Cognitive Psychology, Undergraduate, 2023 - 2024, 2022 - 2023
Sensation and Perception, Undergraduate, 2023 - 2024, 2022 - 2023
Biopsychology, Undergraduate, 2023 - 2024, 2021 - 2022
Graduation Paper and Seminar, Undergraduate, 2021 - 2022
Current Topics in Cognitive Psychology, Undergraduate, 2022 - 2023, 2021 - 2022
Selected Topics in Psychology, Undergraduate, 2022 - 2023

Advising Theses

Boyacı H., Ürgen B. M., Predictive processing of temporal expectations and its computational modelling , Doctorate, H.İrem(Student), Continues

Jury Memberships

Post Graduate, Post Graduate, İhsan Doğramacı Bilkent Üniversitesi, July, 2024
Doctoral Examination, Doctoral Examination, İhsan Doğramacı Bilkent Üniversitesi, May, 2024
Doctoral Examination, Doctoral Examination, İhsan Doğramacı Bilkent Üniversitesi, February, 2024
Post Graduate, Post Graduate, İhsan Doğramacı Bilkent Üniversitesi, December, 2023
Doctoral Examination, Doctoral Examination, İhsan Doğramacı Bilkent Üniversitesi, December, 2023
Post Graduate, Post Graduate, İhsan Doğramacı Bilkent Üniversitesi, October, 2023
Doctorate, Doctorate, İhsan Doğramacı Bilkent Üniversitesi, September, 2023
Doctorate, Doctorate, İhsan Doğramacı Bilkent Üniversitesi, September, 2023
Post Graduate, Post Graduate, İhsan Doğramacı Bilkent Üniversitesi, August, 2023
Post Graduate, Post Graduate, İhsan Doğramacı Bilkent Üniversitesi, July, 2023
Post Graduate, Post Graduate, İhsan Doğramacı Bilkent Üniversitesi, July, 2023
Post Graduate, Post Graduate, İhsan Doğramacı Bilkent Üniversitesi, October, 2022

Designed Lessons

Ürgen B. M., Programming for Experimental Psychology, Undergraduate, 2023 - 2024

Published journal articles indexed by SCI, SSCI, and AHCI

I.   **Factors governing the assignment of visual consequence to the corresponding action**
     Reichenbach A., Ürgen B. M., Apostolakis S., Michlin L., Diedrichsen J.
     Journal of Neurophysiology, vol.127, no.3, pp.756-766, 2022 (SCI-Expanded)
II. **Cortical connectivity in the face of congenital structural changes—A case of homozygous LAMC3**

mutation

Demirayak P., Karli Oguz K., Ustun F. S., Ürgen B. M., Topac Y., Gilani I., Kansu T., SAYGI S., Ozcelik T., Boyaci H., et al.

Brain and Behavior, vol.11, no.8, 2021 (SCI-Expanded)

III. **Unmet expectations delay sensory processes**

Ürgen B. M., Boyaci H.

Vision Research, vol.181, pp.1-9, 2021 (SCI-Expanded)

IV. **Homozygous LAMC3 mutation links to structural and functional changes in visual attention networks**

Ürgen B. M., Topac Y., Ustun F. S., Demirayak P., Oguz K. K., Kansu T., SAYGI S., Ozcelik T., Boyaci H., Doerschner K.

NeuroImage, vol.190, pp.242-253, 2019 (SCI-Expanded)

Books & Book Chapters

I. **ÖN BİLGİ VE BEKLENTİLERİN GÖRSEL ALGI ÜZERİNDEKİ ETKİLERİ: DAVRANIŞ VE HESAPLAMALI MODELLER**

Ürgen B. M.

in: Nörondan Algoritmaya Davranışı Anlamak, Dicle Dövencioğlu, Editor, Nobel Yayın Dağıtım, Ankara, pp.1-166, 2024

Refereed Congress / Symposium Publications in Proceedings

I. **Hesaplamalı modelleme ile ön bilginin duyusal süreçler üzerindeki davranışsal ve nöral etkilerini anlamak**

Ürgen B. M., Baştürk H. İ., Boyacı H.

Ulusal Deneysel-Bilişsel Psikoloji Sempozyumu, Gazimagusa, Cyprus (Kktc), 5 - 06 October 2023

II. **Beklentinin algı süreçlerindeki nöral ve davranışsal etkilerini açıklayabilen yinelemeli bir kortikal model**

Ürgen B. M., Baştürk H. İ., Boyacı H.

1. Ulusal Nörogörüntüleme Kongresi , Ankara, Turkey, 07 September 2023, vol.17, pp.15

III. **Predictive processing in biological motion perception**

Elmas H. O., Aydın B., Er S., Rezaki A. D., Izgi A., Ürgen B. M., Boyacı H.

International Symposium on Brain and Cognitive Sciences (ISBCS), Ankara, Turkey, 29 May 2022

IV. **Sensory processes are delayed when expectations are not met**

Ürgen B. M., Boyacı H.

Vision Science Society, Florida, United States Of America, 21 - 26 May 2021, vol.21, no.9, pp.2529

Other Publications

I. **Predictive processing in biological motion perception: Evidence from human behavior**

Elmas H. O., Er S., Rezaki A. D., Izgi A., Ürgen B. M., Boyacı H., Ürgen B. A.

Other, pp.1-34, 2024

II. **A recurrent cortical model can parsimoniously explain the effect of expectations on sensory processes**

Ürgen B. M., Boyacı H.

Other, pp.1-18, 2021

Supported Projects

Aykaç E., Ürgen B. M., Tulumtaş D., Project Supported by Higher Education Institutions, Behavioral investigation of the

factors that govern voting behavior in Turkey, 2023 - 2024

Scientific Refereeing

International Symposium on Brain and Cognitive Science, Conference Paper (Abstract), June 2024
Project Supported by Public Organizations in Other Countries, The Dutch Research Council (NWO) , Netherlands, May 2023
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, TÜBİTAK, Turkey, October 2022

Metrics

Publication: 12
Citation (Scopus): 15
H-Index (Scopus): 2

Congress and Symposium Activities

International Symposium on Brain and Cognitive Science (ISBCS), Panelists, Ankara, Turkey, 2024

Invited Talks

Perception as an Inference Process:Insights from Computational Modeling of Human Behavior, Conference, International Symposium on Brain and Cognitive Sciences (ISBCS), Turkey, June 2024
Üst Seviye Mekanizmaların Duyusal Bilgi İşleme Üzerine Etkisi, Conference, Ankara Medipol Üniversitesi, Turkey, May 2024
Perception as an inference process: Insights from computational modeling of human behavior, Conference, Bilkent Üniversitesi, XI. Neuroscience Days, Turkey, November 2023
Ön bilgi ve beklentiler erken görsel süreçleri etkiler mi?, Conference, Çankaya Üniversitesi Psychology Society, Turkey, March 2023
Ön bilgi ve beklentilerin görsel algı üzerindeki etkileri, Conference, Hacettepe Üniversitesi, Turkey, December 2022