Ezgi Gür, PhD

Assistant Professor of Experimental Psychology

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I am interested in how the brain processes time, space, and numbers. How do these core elements shape our perception of reality, influencing not only how we experience the world but also how we learn, form memories, and make decisions? Understanding the interplay between these factors can unlock new insights into the cognition and behavior of human and nonhuman animals.

Academic Appointments

Assistant Professor	Izmir University of Economics	2024
	Department of Psychology	
Postdoctoral Researcher	University of Manitoba	2021-2023
	Department of Biological Sciences	
Postdoctoral Researcher	Koç University	2020-2021
	Graduate School of Social Sciences and Humanities	
Research Assistant	Izmir University of Economics	2013 -2014
	Department of Psychology	

Education and Training

Ph.D. (Psychology)	Koç University	2014-2020
	Advisor: Professor Fuat Balcı	
M.Sc. (Experimental Psychology)	İzmir University of Economics	2011-2014
	Advisor: Professor Seda Dural	
B.Sc. (Psychology)	Middle East Technical University	2006-2011
Exchange student	University of Groningen	Spring 2010

Awards and Honors

Graduate Studies Excellence Award 2019
Koç University

Graduate Scholarship (2211) 2014-2018
The Scientific and Technological Research Council of Türkiye

Graduate School Grant 2014-2018
Koç University

Graduate Schol Grant 2013-2014
Izmir University of Economics

Research Awards: 2nd Place in Young Psychologists Category 2013
Turkish Psychological Association

Graduate Scholarship (2210) 2011-2014

Graduate Scholarship (2205) 2006-2011

Peer-Reviewed Publications

Gür E., Duyan Y.A., Toptaş P., Balci F. (in prep.). Mice extrapolate temporal information based on previously learned spatiotemporal mappings: An asymmetrical case.

Hepdarcan I., Korkut, I., Gur, E., Cetinkaya H., & Dural S. (under review). Revisiting the SNARC effect: Testing magnitude classification in a Turkish sample typically lacking the SNARC effect. Journal of Cognitive Psychology. Submission ID: JCP-2476378662

Minary A., Gür E., Balci F. (under review). A rudimentary form of time-dependent awareness in mice. Psychonomic Bulletin and Review.

Aydogan T., Karşılar H., Duyan Y.A., Akdogan B., Baccarini A., De Corte B., Crystal J., Çavdaroğlu B., Gallistel C.R., Grondin S., Gür E., Hallez Q., de Young J., Mattel M., Narayanan N., Özoğlu E., van Maanen L., Öztel T., Vatakis A., Freestone D., Balcı F. (2024) The Timing Database: An open-access, live repository for interval timing studies. Behavior Research Methods. https://doi.org/10.3758/s13428-022-02050-9

Gür E., Erdağı A., Balcı F. (2023) Mice are Near Optimal Timers. Timing and Time Perception. https://doi.org/10.1163/22134468-bja10053

Gür E., Duyan Y.A., Balcı F. (2022). Mice Make Temporal Inferences About Novel Locations Based on Previously Learned Spatiotemporal Contingencies. Animal Cognition. https://doi.org/10.1007/s10071-022-01715-4

Toptaş P., Gür E., Balcı F. (2022). Count-based Decision-making in Mice: Numerosity vs. Stimulus Control. Animal Cognition. https://doi.org/10.1007/s10071-022-01652-2

Dural S., Gür E., Çetinkaya, H. (2022) Testing the memory reconsolidation hypothesis in a fear extinction paradigm: The effects of ecological and arbitrary stimuli. Learning & Behavior. https://doi.org/10.3758/s13420-022-00536- 2

Gür E., Duyan Y.A., & Balcı F. (2021) Numerical Averaging in Mice. Animal Cognition. https://doi.org/10.1007/s10071- 020-01444-6

Gür E., Duyan Y.A., Türkakın E., Arkan S., Karson A., & Balcı F. (2020) Aging Impairs Decision-making in Mice: Integrating Computational and Neurobiological Approaches. Brain Structure and Function. https://doi.org/10.1007/s00429-020-02101-x

Gür E., Duyan Y.A., Arkan S., Karson A., & Balcı F. (2020) Interval Timing Deficits and Its Neurobiological Correlates in Mouse Model of Aging. Neurobiology of Aging. https://doi.org/10.1016/j.neurobiolaging.2020.02.021

Gür E., Duyan Y.A., & Balcı F. (2019). Probabilistic Information Modulates the Timed Response Inhibition Deficit in Aging Mice. Frontiers in Behavioral Neuroscience. https://doi.org/10.3389/fnbeh.2019.00196

Gür E., Fertan E., Alkins K., Wong A.A., Balcı F. & Brown R.E. (2019). Interval Timing is Disrupted in Female 5xFAD Mice: An Indication of Altered Memory Processes. Journal of Neuroscience Research. https://doi.org/10.1002/jnr.24418

Gür E., Fertan E., Kosel F., Wong A.A., Balcı F. & Brown R.E. (2019). Sex Differences in the Timing Behavior Performance of 3xTg-AD and Wild-Type Mice in the Peak Interval Procedure. Behavioural Brain Research. doi: 10.1016/j.bbr.2018.11.047.

Gür E., Duyan Y.A., & Balcı F. (2018). Spontaneous integration of temporal information: implications for representational/ computational capacity of animals. Animal Cognition. doi: 10.1007/s10071-017-1137-z.

Gür E., Balcı F. (2017). Mice optimize timed decisions about probabilistic outcomes under deadlines. Animal Cognition. https://doi.org/10.1007/s10071-017-1073-y

Tosun T., Gür E., Balcı F. (2016). Mice plan decision strategies based on previously learned time intervals, locations, and probabilities. Proceedings of the National Academy of Sciences of the United States of America. doi: 10.1073/pnas.1518316113.

Dural S., Gür E., & Çetinkaya H. (2015). A new approach to extinction of acquired fear: Intervening to reconsolidation process of fear memory. Turkish Psychological Articles, 18(35), 67-82.

Conference Presentations

Dural, S., Bulut, M., Palaz, E., & Gür, E. (2024) Imagine a number line: Space-number associations from the SMART Lab perspective. National Congress of Graduate Psychology Students, Antalya, Türkiye.

Gür E., Erdağı A., Balcı F. (2023). *How to Slow Down Time? Neural Basis of Time Perception: Behavioral & Optogenetics Testing*. 2023 Manitoba Neuroscience Network Scientific Meeting, Winnipeg, Canada

Minary A., Gür E., Balci F. (2023). *Mice can monitor their temporal judgment errors.* 16th Annual Canadian Neuroscience Meeting 2023, Montreal, Canada

Gür E., Duyan Y.A., Türkakın E., Arkan S., Karson A., & Balcı F. (2020). *Decision-making in aging in light of comparative, computational and neuroscientific perspectives*. 18th National Neuroscience Conference, Ankara, Turkey

Gür E., Duyan Y.A., Balci F (2019). *Spatio-temporal Transfer of Judgments in Mice.* 2nd Conference of the Timing Research Forum, Queretaro, Mexico

Gür E., Duyan Y.A., Türkakın E., Arkan S., Karson A., & Balcı F. (2019). *Decision-Making Processes in Aging: Computational and Neurobiological Approaches*. 5th Experimental & Cognitive Psychology Symposium, İstanbul, Turkey

Gür E., Fertan E., Alkins K., Kosel P., Balcı F. & Brown R.E. (2018). *Interval Timing in Two Transgenic Mouse Models of Alzheimer's Disease*. 11th FENS Forum of Neuroscience, Berlin, Germany

Gür E., Duyan Y.A., Arkan S., Karson A., & Balcı F. (2020). *Interval Timing in Aging Mice*. 1st Conference of the Timing Research Forum, Strasbourg, France

Gür E., Duyan Y.A., Balci F (2019). "*Model-Based" Temporal Decision Outputs in Mice*. 4th Experimental & Cognitive Psychology Symposium, İzmir, Turkey

Gür E., Dural S. (2014). *The Long-lasting Effects of Extinction during the Reconsolidation Process of Fear Memory*. 18th Meeting of the European Society for Cognitive Psychology, Budapest, Hungary

Gür E., Hepdarcan I., İçağası B. (2013). *Blocking Effect Paradigm in Vicarious Learning of Fear*. 18th National Psychology Students Congress, Izmir, Turkey