

CURRICULUM VITAE

Associate Professor
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EDUCATION

- Graduate Certificate in Cognitive Science, Rutgers University, New Brunswick, NJ, February 2008
- Ph.D., Cognitive Psychology, Rutgers University, New Brunswick, NJ, October 2007
- M.S., Cognitive Psychology, Rutgers University, New Brunswick, NJ, October 2004
- B.A., Psychology, Koç University, Istanbul, Turkey, June 2002

PROFESSIONAL AND RESEARCH EXPERIENCE

- Associate Dean, College of Social Science and Humanities, Koç University, Istanbul (7/2015-present)
- Associate Professor, Department of Psychology, Koç University, Istanbul (10/2014-present)
- Associate Professor academic title granted by the Inter-University Council of the Republic of Turkey (6/2013)
- Assistant Professor, Department of Psychology, Koç University, Istanbul (2011-2014)
- Postdoctoral Research Fellow, Neuroscience Institute, Princeton University, NJ (2008-2010)
- Research Scientist at R&D/Head of Experimental Models, PsychoGenics Inc, Tarrytown, NY (2007-2008)
- Graduate Teaching Assistant, Department of Psychology Rutgers University, NJ (2004-2006)

PUBLICATIONS

Refereed Journal Research Articles: * Student Authors

1. Karşilar, H.* & Balci, F. (in press). Asymmetrical Modulation of Time Perception by Increase vs. Decrease in Coherence of Motion. *Attention, Perception & Psychophysics* (SCIE, SSCI)
2. Akdogan, B.* & Balci, F. (2016). The Effects of Payoff Manipulations on Temporal Bisection Performance. *Acta Psychologica*, 170, 74-83. (SSCI)
3. Tosun, T.*, Gür, E.*, & Balci, F. (2016). Mice plan decision strategies based on previously learned time intervals, locations, and probabilities. *Proceedings of the National Academy of Sciences*, 113, 787-792 (SCI, SCIE)

4. Erhan, C.* & **Balci, F.** (in press). Obsessive compulsive features predict cautious decision strategies. *Quarterly Journal of Experimental Psychology* (SCI, SSCI)
5. Brunner, D., **Balci, F.**, Curtin, P.C.P., Farrar, A., Oakeshott, S., Sutphen, J., Berger, J., Howland, D. (2015). Temporal Control Deficits in Murine Models of Huntington's Disease. *International Journal of Comparative Psychology*, 28, 1-18.
6. Berkay, D.* , Cavdaroglu, B.* & **Balci, F.** (in press). Probabilistic Numerical Discrimination in Mice. *Animal Cognition* 19, 251-265 (SCIE)
7. Çoşkun, F.* , Berkay, D.* , Sayalı, C. & **Balci, F.** (in press). Sequential Temporal Discrimination in Humans and Mice. *International Journal of Comparative Psychology*, 28, 1-14.
8. Çavdaroğlu, B.* & **Balci, F.** (in press). Mice can count and optimize count-based decisions. *Psychonomic Bulletin & Review*. (SSCI)
9. Akdoğan, B.* & Balci, F. (2016). Stimulus probability effects on temporal bisection performance of mice (*Mus musculus*). *Animal Cognition*, 19, 15-30 (SCIE)
10. Çarkoğlu, C.* , Yılmaz, M.* , **Balci, F.** (in press). Continuous Spontaneous Alternation and Turn Alternation in *Artemia* sp. *International Journal of Comparative Psychology*, 28, 1-7.
11. Demirtas Sahin, T., Karson, A., **Balci, F.**, Yazır, Y., Bayramgürler, D., Utkan, T. (2015). TNF-alpha inhibition prevents cognitive decline and maintains hippocampal BDNF levels in the unpredictable chronic mild stress rat model of depression. *Behavioural Brain Research*, 292, 233-240 (SCI, SCIE)
12. Freestone, D., **Balci, F.**, Simen, P., Church, R.M. (2015). Optimal Response Rates in Humans and Rats. *Journal of Experimental Psychology: Animal Learning & Cognition*, 41, 39-51 (SCI, SSCI)
13. Çoşkun, F.* , Sayalı, C.* , Gürbüz, E.* , **Balci, F.** (2015). Optimal time discrimination. *Quarterly Journal of Experimental Psychology*, 68(2), 381-401 (SCI, SSCI)
14. Karşilar, H.* , Simen, P., Papadakis, S., **Balci, F.** (2014). Speed Accuracy Trade-off Under Response Deadlines. *Frontiers in Neuroscience*, 8:248. doi3: 10.3389/fnins.2014.00248
15. **Balci, F.**, Simen, P. (2014). Decision processes in temporal discrimination. *Acta Psychologica*. 149, 157-168. (SSCI)
16. Maggi, D., Garbugino, L., Heise, I., Nieus, T., **Balci, F.**, Wells, S., Tocchini-Valentini, G.P., Mandillo, S., Nolan, P.M., Tucci, V. (2014). A cross-laboratory investigation of timing endophenotypes in mouse behavior. *Timing and Time Perception*, 2(1), 35-40.
17. Çavdaroğlu, B.* , Zeki, M., **Balci, F.** (2014). Time-based reward maximization. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 369(1637), 20120461 doi: 10.1098/rstb.2012.0461 (SCI, SCIE)
18. Gallistel, C.R., **Balci, F.**, Freestone, D., Kheifets, A., King, A. (2013, in press). Automated, Quantitative Cognitive/Behavioral Screening of Mice: For Genetics, Pharmacology, Animal Cognition and Undergraduate Instruction. *Journal of Visualized Experiments*, 84, e51047, doi:10.3791/51047
19. **Balci, F.**, Oakeshott, S., Shamy, J., El Khodor, B., Filippov, I., Mushlin, R. et al. (2013). High-Throughput Automated Phenotyping of Two Genetic Mouse Models of Huntington's Disease. *PLOS Currents in Huntington Disease*, 1/doi: 10.1371/currents.hd.124aa0d16753f88215776fba102ceb29

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20. **Balci, F.**, Ramey-Balci, P., Ruamps, P. (2014). Spontaneous alternation and locomotor activity in three species of marine crabs: Green crab (*Carcinus maenas*), blue crab (*Callinectes sapidus*) and fiddler crab (*Uca pugnax*). *Journal of Comparative Psychology*, *128*(1), 65-73. (SCI, SCIE, SSCI)
 21. Karson, A. Demirtaş, T., Bayramgürler, D., **Balci, F.**, Utkan, T. (2013). Chronic administration of Infliximab (TNF-alpha inhibitor) decreases depression and anxiety-like behavior in rat model of unpredictable chronic mild stress. *Basic & Clinical Pharmacology & Toxicology*, *112*(5), 335-40. (SCI, SCIE)
 22. **Balci, F.**, Wiener, M., Çavdaroglu, B.*, Coslett, B.H. (2013). Epistasis Effects of Dopamine Genes on Interval Timing and Reward Magnitude in Humans. *Neuropsychologia*, *51*(2), 293-308. (SCI, SCIE, SSCI)
 23. Karson, A., Utkan, T., **Balci, F.**, Arıcioglu, F., Ateş, N. (2012). Age-related decline in learning and memory performances of male WAG/Rij rats. *Behavioral and Brain Functions*, *8*/51. (SCIE)
 24. **Balci, F.**, Freestone, D., Simen, P., deSouza, L., Cohen, J. D., Holmes, P. (2011). Optimal Temporal Risk Assessment. *Frontiers in Integrative Neuroscience*, *5*, 1-15.
 25. Simen, P., **Balci, F.**, deSouza, L., Cohen, J. D., Holmes, P. (2011). Interval timing by long-range temporal integration. *Frontiers in Integrative Neuroscience*, *5*, 1-2.
 26. Simen, P., **Balci, F.**, deSouza, L., Holmes, P., Cohen, J. D. (2011). A model of interval timing by neural integration. *Journal of Neuroscience*, *31*(25), 9238-9253. (SCI, SCIE)
 27. Oakeshott, S., **Balci, F.**, Flippov, I., Murphy, C., Port, R., Connor, D., Paintdakhi, A., LeSauter, J., Menalled, L., Ramboz, S., Kwak, S., Howland, D., Silver, R., Brunner, D. (2011). Circadian abnormalities in motor activity in a BAC transgenic mouse model of Huntington's Disease. *PLoS Currents: Huntington Disease*, *25*/3:RRN1225
 28. Ludvig, E. A., **Balci, F.**, Spetch, M. L. (2011). Reward magnitude and timing in pigeons. *Behavioural Processes*, *86*(3), 359-363. (SCI, SCIE, SSCI)
 29. **Balci, F.**, Simen, P., Niyogi, R., Saxe, A., Hughes, J., Holmes, P., & Cohen, J. D. (2011). Acquisition of decision-making criteria: Reward rate ultimately beats accuracy. *Attention, Perception, & Psychophysics*, *73*(2), 640-657. (SCIE, SSCI)
 30. Paterson, N.E., **Balci, F.**, Campbell, U., Olivier, B., Hanania, T. (2011). The triple reuptake inhibitor DOV216,303 exhibits limited antidepressant-like properties in the differential reinforcement of low-rate 72-sec responding assay, likely due to dopamine reuptake inhibition. *Journal of Psychopharmacology*, *25*(10), 1357-1364. (SCI, SCIE)
 31. **Balci, F.**, Ludvig, E.A., Brunner, D. (2010). Within-session modulation of timed anticipatory responding: When to start responding. *Behavioural Processes*, *85*(2), 204-206. (SCI, SCIE, SSCI)
 32. **Balci, F.**, Ludvig, E.A., Abner, R., Zhuang, X., Poon, P., B., Brunner, D. (2010). Motivational Effects on Interval Timing in Dopamine Transporter (DAT) Knockdown Mice. *Brain Research*, *1325*, 89-99. (SCI, SCIE)
 33. Gallistel, C.R., King, A.P., Daniel, A.M., Freestone, D., Papachristos, E.B., **Balci, F.**, Kheifets, A., Zhang, J., Su, X., Schiff G., Kourtev, H. (2010). Screening for Learning and Memory Mutations: A New Approach. *Acta Psychologica Sinica*, *42*(1), 138-158.
 34. **Balci, F.**, Day, M., Rooney, A., Brunner, D. (2009). Disrupted Temporal Control in the R6/2 Mouse Model of Huntington's Disease. *Behavioral Neuroscience*,

- 123(6),1353-1358. (SCI, SCIE)
35. **Balci, F.**, Freestone, D., Gallistel, C.R. (2009). Risk assessment in man and mouse. *Proceedings of the National Academy of Sciences*, 106(7), 2459-2463. (SCI, SCIE)
 36. **Balci, F.**, Gallistel, C.R., Allen, B.D., Frank, K., Gibson, J., Brunner, D. (2009). Acquisition of peak responding: What is learned? *Behavioural Processes*, 80(1), 67-75. (SCI, SCIE, SSCI)
 37. Ramey, P.A., Teichman, E., Oleksiak, J., & **Balci, F.** (2009). Spontaneous alternation in marine crabs: invasive versus native species. *Behavioural Processes*, 82(1), 51-55. (SCI, SCIE, SSCI)
 38. **Balci, F.**, Ludvig, E.A., Gibson, J.M., Allen, B.D., Frank, K.M., Kapustinski, B.J., Fedolak, E.T., Brunner, D. (2008). Pharmacological manipulations of interval timing using the peak procedure in male C3H mice. *Psychopharmacology*, 201(1), 67-80. (SCI, SCIE)
 39. **Balci, F.**, Papachristos, E. B., Gallistel, C.R., Brunner, D., Gibson, J., Shumyatsky, G.P. (2008). Interval-Timing in the Genetically Modified Mouse: A Simple Paradigm. *Genes, Brain, and Behavior*, 7(3), 373-384. (SCIE)
 40. Ludvig, E.A., **Balci, F.**, & Longpre, K.M. (2008). Timescale dependence in a conditional temporal discrimination procedure. *Behavioural Processes*, 77(3), 357-363. (SCI, SCIE, SSCI)
 41. Karson, A., Onat, F., **Balci, F.**, Ates, N (2008). Locomotor Activity, Learning and Memory in WAG/Rij Rats with Absence Epilepsy. *Epilepsi*, 14(3), 167-175.
 42. Gallistel, C.R., King, A.P., Gottlieb, D., **Balci, F.**, Papachristos, E.B., Szalecki, M., & Carbone, K.S. (2007). Is Matching Innate? *Journal of the Experimental Analysis of Behavior*, 87(2), 161-199. (SCI, SCIE, SSCI)
 43. Montemayor, C., & **Balci, F.** (2007). Compositionality in Language and Arithmetic. *Journal of Theoretical & Philosophical Psychology*, 27(1), 53-72.
 44. **Balci, F.**, & Gallistel, C.R. (2006). Cross-Domain Transfer of Quantitative Discriminations: Is it All a Matter of Proportion? *Psychonomic Bulletin & Review*, 13(4), 636-642. (SSCI)

Refereed Journal Review & Theoretical Articles:

1. **Balci, F.** & Simen, P. (2016). A decision model of timing. *Current Opinion in Behavioral Sciences*. 8:94–101
2. Akdogan, B.* & **Balci, F.** (in press, 2016). Aralık Zamanlama: Kuramsal ve Deneysel Yaklaşımlar (Interval Timing: Theoretical and Experimental Approaches). *Türk Psikoloji Yazıları/Turkish Psychological Articles*.
3. **Balci, F.** (2014). Interval Timing, Dopamine, & Motivation, *Timing & Time Perception*, 2(3), 379 – 410.
4. Simen, P., Rivech, F., Ludvig, E.A., **Balci, F.**, Killeen, P. (2013). Timescale invariance in the pacemaker-accumulator family of timing models. *Timing & Time Perception*, 1/2, 159-188.
5. Brunner, D., **Balci, F.**, Ludvig, E.A. (2012). Comparative Psychology and the Grand Challenge of Drug Discovery in Psychiatry and Neurodegeneration, *Behavioural Processes*, 89, 187-95 (selected and evaluated in Faculty 1000 placing this work in the top 2 percent of published articles in biology and medicine). (SCI, SCIE, SSCI)
6. Day, M., **Balci, F.**, Wan, H.I., Fox, G.B., Kling, M.A., Rutkowski, J.L., Feuerstein,

G. (2008). Cognitive Endpoints in Attention, Impulsivity and Recent and Remote Memory as Disease Biomarkers: Optimizing the Congruency of Preclinical Models to the Clinic. *Current Opinion in Investigational Drugs*, 9, 696-706.

Refereed Conference Publications:

1. Genç, C.*, Soomro, S., Duyan, Y.*, **Balcı, F.**, Ürey, H., & Özcan, O. (2016). Head Mounted Projection Display & Visual Attention: Visual attentional processing of head referenced static and dynamic displays while in motion and standing. *CHI '16*
2. Simen, P., Van Vugt, M., **Balcı, F.**, Freestone, D. and Polk, T. (2010). Toward an analog neural substrate for production systems. *Proceedings of the International Conference on Cognitive Modeling*.
3. Gallistel, C.R., King, A.P., Daniel, A.M., Papachristos, E.B., & **Balcı, F.** (August 2008). Fully automated 24/7 behavioral screening for mutations in targeted cognitive mechanisms in the mouse. *Measuring Behavior 2008*, 55.

Book Chapters:

1. Freestone, D. & **Balcı, F.** (in press). The biology of economic choice in mammals. In V. Tucci *Handbook of Neurobehavioral Genetics and Phenotyping*. Publisher: Wiley-Blackwell
2. **Balcı, F.**, Meck, W., Moore, H., & Brunner, D. (2009). *Timing Deficits in Aging and Neuropathology*. In Jennifer L. Bizon & Alisa G. Woods (Eds.), *Animal Models of Human Cognitive Aging* (pp. 161-201). Totowa, NJ: Humana Press.
3. **Balcı, F.** & Karson, A. (2012). Sınır Sisteminin Yapısı ve İşlevleri (Structure and Functions of the Nervous System). In Zeynep Cemalcılar, *Psikolojiye Giriş* (pp. 56-95) (Introduction to Psychology). Eskişehir: Anadolu Üniversitesi Açıköğretim Fakültesi Yayınları.

Other Publications:

1. **Balcı, F.** (2013). Öznel zaman (Subjective time). *Cogito*, 75
2. **Balcı, F.** (2012). Decision optimization based on brain's clock. *Frontier*, 7, 11-13.
3. **Balcı, F.** (2015). Introduction to Timing and Time Perception: Interval Timing Behavior: Comparative and Integrative Approaches. *International Journal of Comparative Psychology*, 28, 1-6.

Articles in review and preparation process are not listed.

GRANTS

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- Interdisciplinary Perspectives on Time (2013-2015)
 - Marie Curie International Reintegration Grant (2011-2015)
 - TÜBİTAK 1001 Grant: The support programme for scientific and technological research projects (2012-2015)
 - TÜBİTAK 2515 Grant (2015-2018)
 - Koç University Teaching Innovation Grant (2012-2013)
 - TÜBİTAK 3501 Grant: Modeling and analysis of persistent and irregular behavior in excitatory and inhibitory neural networks (2011-2015) - Advisor
-

HONORS, FELLOWSHIPS & AWARDS

- TÜBA-GEBİP Award (Turkish Academy of Sciences – The Young Scientists Award Programme) 2015
- Outstanding Faculty Award (2013-2014), Koç University
- TÜBİTAK Teşvik Ödülü (TÜBİTAK Incentive Award) 2014
- World Economic Forum Young Scientist 2013
- Science Academy Young Scientist Award (BAGEP, 2013)
- The Global Network of Science Academies (IAP) Partial Travel Support (2013)
- Best Poster Awards: International Conference on Timing & Time Perception (2014); 18th National Psychology Congress (2014)
- TÜBİTAK FP7 Participation Incentive Award (2011)
- Rutgers University, Graduate School Fellowship (2002-2004, 2006-2007)
- Rutgers University Center for Cognitive Science Fellowship (2002-2003)
- Undergraduate Scholarship from Koç University (1999-2002)
- Koç University Vehbi Koç Honor Awards (1998-2002)
- Koç University Student Activity Award for the Organization of VI. National Psychology Student Congress (2001)

ABSTRACTS & CONFERENCE PRESENTATIONS

1. Balcı, F. (May, 2016). Zaman Algısı ve Karar Verme: Ortak Kuramsal Yaklaşım (Time Perception and Decision Making: An overarching theoretical approach). 14. National Neuroscience Congress.
2. Tosun, T., Berkay, D., Sack, A.Y., Çakmak, Y. & Balcı, F. (May, 2016). Pre-SMA aktivitesinin algısal kararlardaki hız-doğruluk ödünleşimine etkisi: Bir rTMS çalışması (Effect of pre-SMA activity on speed-accuracy tradeoff in perceptual decision making: An rTMS study). 14. National Neuroscience Congress.
3. Akdoğan, B., Balcı, F. & van Rijn, H. (May, 2016). Zamansal Beklentinin Göz Bebeği Aktivitesi Üzerindeki Etkisi (Effect of temporal expectations on pupillary responses). 14. National Neuroscience Congress.
4. Mızrak, E., Erhan, C., **Balcı, F.**, Öztekin, I. (November, 2015). Trait Anxiety Effects on the Control of Proactive Interference in Working Memory. Psychonomic Society's 57th Annual Meeting, Chicago, USA.
5. Akdoğan, B. & **Balcı, F.** (May, 2015). The Effects of Exogenous Probability on Retrospective Temporal Discrimination Performance of Mice. Association for Psychological Science, 27th Annual Convention, NYC, USA.
6. Berkay, D. & **Balcı, F.** (May, 2015). Optimal Numerical Discrimination in Mice. Association for Psychological Science, 27th Annual Convention, NYC, USA.
7. Tosun, T. & **Balcı, F.** (May, 2015). Mice plan their timed decisions based on previously acquired probabilistic and temporal information. Association for Psychological Science, 27th Annual Convention, NYC, USA.
8. Erhan, C. & **Balcı, F.** (March 2015). Obsessive Compulsive Features Predict Cautious Decision Strategies. International Convention of Psychological Science, Amsterdam, The Netherlands.
9. Akdoğan, B. & **Balcı, F.** (July 2014). Temporal Expectancy Indexed by Pupillary

- Response. Poster presented at 9th FENS Forum of Neuroscience, Milan, Italy.
10. Karşılar, H., Simen, P., Papadakis, **Balcı, F.** (April, 2014). Tepki süresi sınırlandırması altında hız-doğruluk ödünleşimi. (Speed Accuracy Trade-off under Response Deadlines). 18th National Psychology Congress, Bursa, Turkey (best poster award, first rank)
 11. Karşılar, H., Simen, P., Papadakis, S. **Balcı, F.** (April, 2014). Speed Accuracy Trade-off under Response Deadlines. International Conference on Timing & Time Perception, Corfu, Greece (best poster award)
 12. Oakeshott, S, **Balcı, F.**, Port R, Sutphen J, Berger J, Watson-Johnson J, Farrar AM, Ramboz S, Park L, Howland D, Brunner D. (November, 2013). Evaluation of deficits in response inhibition in the peak interval task in three mouse models of Huntington's disease. Poster presented at the 43rd Annual Meeting of Society for Neuroscience, San Diego, CA, USA.
 13. Zeki, M, **Balcı, F.** (October, 2013). The balance between excitation and inhibition in a timing network. Paper presented at the 2nd International Workshop on Complex Dynamical Systems and Their Applications. (2. Uluslararası Karmaşık Dinamik Sistemler ve Uygulamaları Çalıştayı), Işık Üniversitesi, İstanbul, Turkey.
 14. Demirtaş, T., Karson, A., Yazır, Y., Utkan, T., **Balcı, F.**, Bayramgürler, D. (October, 2013). İnflksimabın öngörülemeyen kronik hafif stres uygulanmış sıçanlarda bozulmuş bilişsel fonksiyonlar üzerindeki etkisinin araştırılması. Poster presented at the 22. National Pharmacology Congress, Antalya, Turkey.
 15. **Balcı, F.** (September, 2013). Time-based reward maximization. Paper presented at ESCOP 2013, Budapest, Hungary.
 16. Oakeshott S, **Balcı F.**, Port R, Sutphen J, Berger J, Watson-Johnson J, Farrar AM, Ramboz S, Park L, Howland D, Brunner D. (2013) Evaluation of deficits in response inhibition in the peak interval task in three mouse models of Huntington's disease. CHDI Foundation 8th Annual HD Therapeutics Conference, Venice, Italy.
 17. Simen, P. **Balcı, F.** (October, 2012). Subdivide and conquer: A model of both precise and imprecise timing. Paper presented at the 42nd Annual Meeting of Society for Neuroscience, New Orleans, LA, USA.
 18. Simen, P. **Balcı, F.** (July, 2012). A drift-diffusion account of temporal discrimination. Paper presented at the 45th annual meeting of the Society for Mathematical Psychology, Columbus, Ohio, USA.
 19. Maggi, S., Lassi, G., Nieuws, T., **Balcı, F.**, Nolan, P.M., Tucci, V. (July, 2012). Abnormal temporal decision making in a novel circadian mouse model, the After-hours mice. Poster presented at the 8th FENS, Forum of Neuroscience, Barcelona, Spain.
 20. **Balcı, F.**, Simen, P., deSouza, L. (November, 2011). A drift-diffusion account of response times in temporal bisection. Poster presented at the 41st Annual Meeting of Society for Neuroscience, Washington DC, USA.
 21. **Balcı, F.**, Simen, P., deSouza, L. (November, 2011). A drift-diffusion account of response time in retrospective temporal decision-making. Poster presented at the 52nd Annual Meeting of the Psychonomic Society, Seattle, USA.
 22. Freestone, D., **Balcı, F.**, Simen, P. (November, 2010). Time is money and we loose it wisely. Poster presented at the 40th Annual Meeting of Society for Neuroscience, San Diego, USA.

23. Simen, P. **Balci, F.**, Freestone, D. (August, 2010). Reward maximization, drift-diffusion and inter-response times in instrumental conditioning. Paper presented at 43th annual meeting of the Society for Mathematical Psychology, Oregon, USA.
24. Simen, P., Van Vugt, M. K., **Balci, F.**, Freestone, D., & Polk, T. (2010, August). Toward an analog neural substrate for production systems. Paper presented at the 10th International Conference on Cognitive Modeling, Philadelphia, USA.
25. Ramey, P.A., **Balci, F.**, Ruamps, P., Oleksiak, J., Teichman, E. (March, 2010). An experimental model to assess the exploratory activity and efficiency in invasive versus native species of marine crabs. Paper presented at the Benthic Ecology Meeting, Wilmington, USA.
26. **Balci, F.**, Rooney, A., Oakeshott, S.M., Day, M., & Brunner, D. (October, 2009) Disrupted Temporal Control in the R6/2 Mouse Model of Huntington's Disease. Poster presented at the 39th Annual Meeting of Society for Neuroscience, Chicago, USA.
27. Brunner, D., Ludvig, E.A., Abner, R., Zhuang, X., Poon, P., B., & **Balci, F.** (October, 2009). Interval timing in dopamine transporter (DAT) knockdown mice. Poster presented at the 39th Annual Meeting of Society for Neuroscience, Chicago, USA.
28. Simen, P., Nystrom, L., Van Vugt, M., Sederberg, P., **Balci, F.**, & Cohen, J. D. (October, 2009). Event-related fMRI during slow decision making can reveal temporal structure in neural activity. Poster presented at the 39th Annual Meeting of Society for Neuroscience, Chicago, USA.
29. **Balci, F.**, Freestone, D., & Gallistel, C.R. (November, 2008). Optimal decision making by man and mouse in an interval timing task. Paper presented at the 38th Annual Meeting of Society for Neuroscience, Washington DC, USA. (selected for and published in the *Society for Neuroscience media book*)
30. Brunner, D., Gallistel, C.R., Allen, B.D., Frank, K.M., Malberg, J.E., Gibson, J.M., Kapustinski, B., & **Balci, F.** (November, 2008). Acquisition of timed responses on the peak procedure. Poster presented at the 38th Annual Meeting of Society for Neuroscience, Washington DC, USA.
31. Papachristos, E.B., **Balci, F.**, Shumyatsky, G.P., & Gallistel, C.R. (June, 2008). Screening for interval timing abnormalities in memory mutants. Poster presented at the Endo-Neuro-Psycho Meeting, Doorwerth, The Netherlands.
32. **Balci, F.**, Papachristos, E.B., & Gallistel, C.R., Allen, B.D., Gibson, J., Kapustinski, B. J., & Brunner, D. (November, 2007). Assessing cognitive disruption with interval timing: A simple paradigm and its pharmacological validation with amphetamine. Poster presented at the 37th Annual Meeting of Society for Neuroscience, San Diego, USA.
33. **Balci, F.**, Papachristos, E.B., & Gallistel, C.R. (May, 2007). Interval-timing in the genetically modified mice. Paper presented at the 33rd Annual Convention of Association for Behavior Analysis, San Diego, USA.
34. **Balci, F.**, Papachristos, E.B., Gallistel, C.R., Allen, B., Gibson, J.M., Kapustinski, B., & Brunner, D. (May, 2007). Effects of d-amphetamine and methamphetamine on interval timing tested with temporal discriminations of concurrent fixed-interval schedules. Poster presented at the SQAB 2007, San Diego, USA.
35. Papachristos, E.B., **Balci, F.**, Gallistel, C.R., Schachner, M., & Shumyatsky, G.P. (May, 2007). Screening for memory mutants with matching and timing tasks. Poster

presented at the SQAB 2007, San Diego, USA.

36. Gallistel, C.R., King, A., Gottlieb, D., **Balci, F.**, Papachristos, E.B., Szalecki, M. & Carbone, K. (May, 2007). Matching in the mouse: Is it innate? Paper presented at the 33rd Annual Convention of Association for Behavior Analysis, San Diego, USA.
37. **Balci, F.**, & Gallistel, C.R. (October, 2004). Mouse adds them up. Poster presented at the 34th Annual Meeting of Society for Neuroscience, San Diego, USA.
38. Gallistel, C.R., Szalecki, M., **Balci, F.**, Papachristos, S., & King, A. (October, 2004). The emergence of matching in experimentally naïve mouse. Poster presented at the 34th Annual Meeting of Society for Neuroscience, San Diego, USA.
39. **Balci, F.**, & Gallistel, C.R. (November, 2004). Is it all a matter of proportion? Poster presented at the 12th Annual Meeting of OPAM, Minneapolis, USA.
40. Gulgoz, S., Kuntay, A., Tekcan, A. I., Kesebir, P., & **Balci, F.** (September, 2002). Retrieval of Emotional Autobiographical Memories and Personality. Paper presented at the 12th National Congress of Psychology, Ankara, Turkey.

INVITED TALKS

1. Subjective Time and Decision Making: It is time for integration, Department of Psychology, University of Toronto Scarborough (11/Nov/2015).
2. Subjective Time & Decision Making: An integrative approach to reward maximization and generative processes, Psychology and Neuroscience Lecture Series, Dalhousie University (23/Oct/2015).
3. Time, Decisions, and Rewards, 3rd Brazilian Meeting on Brain & Cognition, Sao Paulo, Brazil (1/Oct/2015)
4. Interval Timing and Temporal Decision Making with Particular Focus on the Behavioral and Modeling Aspects. Neuroscience: From Structure to Function and Back. 2nd German-Turkish Science Dialogue, Ruhr-Universität Bochum, Germany (June, 2015) – invited by German Academy of Sciences “Leopoldina”.
5. Psychological Time and Decisions: An Overarching Approach. Cognitive Science Talk Series, Yeditepe University, Istanbul (May, 2014)
6. Reward, Dopamine, & Interval Timing, Subjective Duration: Insights from Arts, Humanities and Neuroscience, New York University, NYC, USA (November, 2013)
7. Time, Decisions, & Reward, School of Medicine, Zirve University, Gaziantep, Turkey (June, 2013)
8. Reward Maximization: The Role of Time and Its Psychophysics. Neurology, Philosophy of Biology, Artificial Intelligence Conference, Istanbul, Turkey (May, 2013)
9. Peak Procedure & Differential Reinforcement of Low Rates of Responding, TIMELY School on “Timing and Time Perception: Procedures, Measures, & Applications”, Corfu, Greece (February, 2013)
10. Time, Decisions & Reward Maximization: Bridging the Gap, Cognition Seminar, Cognitive, Linguistic & Psychological Sciences, Brown University, Providence, RI, USA (September, 2012)
11. Epistasis Effects of Dopamine Genes on Interval Timing and Reward Magnitude in Humans, David Badre & Michael Frank Labs, Brown University, Providence, RI, USA (September, 2012)
12. Interval timing and decision-making, Human Memory & Cognition Lab, American

University, Washington DC, USA (November, 2011)

13. Optimal temporal risk assessment: Timing, Decision-Making, and Reward Maximization in humans, rats, and mice, Fifth Psychology Graduate Students Congress, Istanbul, Turkey (September, 2011).
14. Optimal temporal risk assessment in humans and rodents. TIMELY workshop on the “Psychophysical, Computational, and Neuroscience Models of Time Perception”, Groningen, Netherlands (April, 2011).
15. Optimal temporal risk assessment in humans and rodents. PhenoScale Annual Meeting, Plenary Lecture, Frankfurt, Germany (February, 2011).
16. Interval timing and temporal decision making. Italian Institute of Technology, PhenoScale Annual Meeting, Genova, Italy (February, 2010).
17. Optimal decision-making: When time pays off. Koç University, Istanbul, Turkey (December, 2009).
18. Optimal decision-making: When time pays off. Boğaziçi University, Istanbul, Turkey (December, 2009).
19. Temporal decision-making under uncertainty. Princeton University, P6, NJ, USA (June, 2008).
20. Quantitative Risk Assessment in Man and Mouse. NYU, Department of Psychology, Departmental Colloquium, NYC, NY, USA (Balci, F., & Gallistel, C.R., December, 2007).
21. Risk Assessment in Mice and Men. Presented at RuCCS “What is Cognitive Science?” Talk Series, Piscataway, NJ, USA (September, 2007).
22. Cross-Domain Transfer of Quantitative Discriminations: Is it all a matter of proportion? Presented at RuCCS “What is Cognitive Science?” Talk Series, Piscataway, NJ, USA. (November, 2005).
23. Is it all a matter of proportion? Presented at RuCCS Cognitive Forum, Piscataway, NJ, USA. (September, 2004).

ATTENDED WORKSHOPS

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1. TIMELY workshop on the “Psychophysical, Computational, and Neuroscience Models of Time Perception”, Groningen, Netherlands, April 4-8, 2011
 2. Goal-Directed Decision Making Workshop: Behavior, Neuroscience and Computation, Princeton U, Princeton, NJ, Oct 23-24 2009
 3. Behavioral Neurogenetics Workshop, Rutgers U, New Brunswick NJ, Nov 20-21 2008

PROFESSIONAL ASSOCIATIONS

Member of Global Young Academy (2016-)
 Society for Neuroscience (2004-)
 Society for Quantitative Analysis of Behavior (2007-2008)
 European Society for Cognitive Psychology (2013-)
 Association for Psychological Science (2013)

EDITORIAL ACTIVITIES

Co-Editor in Chief of International Journal of Comparative Psychology (2015-)
 Associate Editor of International Journal of Comparative Psychology (2014-2015)

Editorial Board: Timing & Time Perception (Consulting Editor), *Frontiers in Comparative Psychology* (Review Editor), *Frontiers in Behavioral Neuroscience* (Review Editor), *Timing & Time Perception Reviews* (Review Editor)

OTHER PROFESSIONAL ACTIVITIES

- Director of *Animal Behavioral Research Lab*, Co-director of the *Timing, Memory & Decision-making Lab*, Co-founder and Director of the *Brain Stimulation Lab*
- Attendance to the Annual Meeting of the New Champions 2013, World Economic Forum (Young Scientist 2013), Dalian, China, September 11-13, 2013 (sponsored by IAP)
- Co-organizer of TIMELY School on “Timing and Time Perception: Procedures, Measures, & Applications”, Corfu, Greece (4-8 February, 2013)
- Co-organizer of the Object Group: a discussion group devoted to object based attention and object individuation, NYC, NY, USA (2007-2010)
- Organization of VI. National Psychology Student Congress, Istanbul, Turkey (2001)
- Ad hoc reviewer: PNAS, Nature Communications, Neuropsychology, PloS ONE, Acta Psychologica, Behavioural Processes, Genes, Brain & Behavior, Frontiers in Integrative Neuroscience, Frontiers in Behavioral Neuroscience, Frontiers in Human Neuroscience, Biological Cybernetics, European Journal of Neuroscience, Journal of Experimental Analysis of Behavior, International Journal of Comparative Psychology, Emotion, Cognition, Cognitive Computation, Psychological Review, Cognitive Psychology, Animal Cognition, Quarterly Journal of Experiment Psychology, Learning & Memory, JEP: Human Perception and Performance, JEP: Animal Cognition, Physiology & Behavior, Cognitive Science, Studies in Natural Products Chemistry, Turkish Psychological Articles (Türk Psikoloji Yazıları), Wiley Publishers (Book Proposal, Book Chapter)
- Conference Reviewer: Measuring Behavior 2012, 18th National Psychology Congress (Turkey)
- Grant Reviewer: The Scientific and Technological Research Council of Turkey (TÜBİTAK – 1001; 1002; 2221; Bilateral Grants), Marie Curie Fellowships (European Commission – vice chair, rapporteur, expert for review panels), European Commission Future & Emerging Technologies (FET) Grant (expert, invited to serve as a vice-chair for review panels), European Cooperation in Science and Technology (COST) Trans-Domain Actions (expert, rapporteur), Netherlands Organisation for Scientific Research (NWO)
- Visiting Faculty, Cognitive, Linguistic & Psychological Sciences, Brown University, Providence, USA, September, 2012

SERVICE

- Institutional Animal Care and Use Committee, Koç University, 2013-present
- Program Coordinator, GSSH, Koç University, June 2012-present
- Dean search committee – College of Social Sciences and Humanities, Spring 2014
- Social Science Seminars Organization Committee, Koç University, 2011-2012

TEACHING EXPERIENCE

Fall, 2014	Physiological Psychology, Conditioning & Learning (Grad), Research Practicum (Grad)
Spring, 2014	Issues in Psychology, Independent Study (added on March 2014)
Fall, 2013	Conditioning & Learning (Grad), Physiological Psychology (Grad) (<i>Koç U</i>) – both courses were evaluated as within top 8% of the courses taught in Fall 2013
Spring, 2013	Research Practicum (Grad), Issues in Psychology (<i>Koç U</i>)
Fall, 2012	Conditioning & Learning (Grad), Physiological Psychology (Grad) (<i>Koç U</i>)
Fall, 2011	Introduction to Psychology, Psyc. Health & Stress (<i>Koç U</i>)
Spring, 2011	Physiology of Behavior, Issues in Psychology (<i>Koç U</i>)
December, 2009	Guest Lecturer, Brain and Behavior (<i>Boğaziçi U</i>)
Summer, 2005	Instructor, Cognition (<i>Rutgers U</i>)
Fall, 2004;	Instructor, Cognition Lab (<i>Rutgers U</i>)
Spring 2005 & 2006	Instructor, Cognition Lab (<i>Rutgers U</i>)
Fall, 2005	Teaching Assistant, General Psychology & Cognition (<i>Rutgers U</i>)
Spring, 2004	Guest Lecturer, Honors Conditioning & Learning (<i>Rutgers U</i>)

Graduate Student Supervision:

Alumni:

Bilgehan Çavdaroğlu, MA student (currently a Ph.D. student at University of Toronto, received GSSSH excellence award 2014 and Connaught international student award)

Başak Akdoğan, MA student (prospective Ph.D. student, Columbia University)

Filiz Çoşkun, MA student

Tuğçe Tosun, MA student

Current:

Hakan Karşilar, doctoral student

Ceyla Erhan, doctoral student

Ezgi Gür, doctoral student

Yalçın Duyan, doctoral student

Dilara Berkay, MA student (prospective Ph.D. student, University of Pennsylvania)

Ezgi Uslu, MA student