

Huseyin Boyaci

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EDUCATION

1995-1999 **Ph.D., Physics**, Bilkent University, Ankara, Turkey, September 1999. Dissertation: *Strongly Correlated models of High Temperature Superconductivity*,
1993-1995 **M.S., Physics**, Bilkent University, September 1995. Dissertation: *Supercurrents and Persistent Currents in Strongly Correlated Electron Systems*,
1989-1993 **B.S., Physics**, Bilkent University, June 1993

APPOINTMENTS

2016, 2017 **Gastprofessor**, Department of Psychology, JL Giessen University, Germany (Summer Semesters)
2013- **Associate Professor**, Department of Psychology, and National Research Center for Magnetic Resonance (UMRAM), Bilkent University
2014-2015 **Sabbatical leave**, Department of Cognitive Science, University of California, San Diego, and Psychology Department, JL Giessen University, Germany
2008-2013 **Assistant Professor**, Department of Psychology, and UMRAM, Bilkent University
2004-2007 **Post-doctoral** research fellow, Department of Psychology, University of Minnesota at Twin Cities
2004 (Summer) **Part time instructor**, Department of Psychology, New York University
2000-2004 **Post-doctoral** research fellow, Department of Psychology and Center for Neural Science, New York University
1999-2000 **Full time instructor**, Department of Physics, Bilkent University
1998-1999 **Part time instructor**, Department of Physics, Bilkent University
1993-1999 **Research and teaching assistant**, Department of Physics, Bilkent University
1995-1997 **Computer systems administrator**, Faculty of Science, Bilkent University

SCHOLARSHIPS AND AWARDS

2014-2015	J. William Fulbright "Visiting Scholar" fellowship (Department of Cognitive Science, University of California, San Diego)
2009-2012	TUBA (The Turkish Academy of Sciences) Distinguished Young Scientist Award
2000	NATO-B1 Postdoctoral scholarship awarded by TUBITAK for postdoctoral studies in New York University. Duration: 6 Months
1995-1999	TUBITAK "Combined Graduate Study Scholarship Program" (BDP) in Bilkent University
1993-1999	Graduate study scholarship, Bilkent Bilkent University
1997 September-1998 January	CNR (Italian National Research Council), research scholarship, in Istituto di Cibernetica, Napoli, Italy
1989-1993	Undergraduate study scholarship, Bilkent Bilkent University
1989	TUBITAK undergraduate study award

COURSES TAUGHT

Perception, Attention and Action

Visual Neuroscience (developed and introduced in 2014)

Experimental Methods in Psychology (developed and introduced in 2012)

Cognitive Psychology

Introduction to fMRI (developed and introduced in 2009)

Cognitive Neuroscience (developed and introduced in 2008)

Introduction to Psychology

Sensation and Perception

Numerical Methods in Physics

Methods in Computational Physics

GRANTS

- 2017-2019 TUBITAK (The Scientific and Technological Research Council of Turkey) 1001 Research Grant, *Kontrast Algısında Bağlama Dayalı Açıklık Etkisinin Kortikal Karşılığı (Cortical Correlates of the Contrast Perception Affected by Context-dependent Lightness)* PI. Budget: 207,450 TL (approximately 60,000 US Dollars at the time of funding) (funding id: 116K380)
- 2013-2015 TUBITAK 1001 Research Grant, *The effect of luminance- and context-dependent brightness on contrast perception*, PI. Budget: 97,243 TL (approximately 45,000 US Dollars at the time of funding) (funding id: 113K210)
- 2012-2015 TUBITAK 1001 Research Grant, *Assessing structural and functional architecture of the human brain through investigating influences of genetically rooted central nervous system disorders*, Consultant. (funding id: 112K069)
- 2012-2013 TUBITAK 1002 Research Grant, *Attentional modulation of surround suppression in visual perception*, PI. Budget: 28,380 TL (approximately 16,000 US Dollars at the time of funding) (funding id: 112K013)
- 2011-2014 European Research Projects on Rare Diseases. *Nosology and molecular diagnosis of the degenerative recessive ataxias*, role: participant responsible with neuroimaging aspects in a large multinational consortium coordinated by Michel Koenig, France. Budget: 917,100 Euro
- 2009-2013 European Commission Marie Curie International Reintegration Grant, *Assessing functional connectivity patterns within and among human visual cortical areas associated with contextual influences on visual perception*, PI. Budget: 100,000 Euro. (funding id: PIRG-GA-2008-239467)
- 2009-2012 TUBITAK 1001 Research Grant, *Analysis of the influence of novel neurodevelopmental movement disorder mutations on the functional and structural organization of the visual and motor systems*, Co-PI. Budget: 439,000 YTL (approximately 225,000 US Dollars) (funding id: 108S355)
- 2009-2012 TUBITAK 1001 Research Grant, *Assessing neural activity and functional connectivity in human cortex associated with contextual influences on visual perception*, PI. Budget: 346,000 YTL (approximately 210,000 US Dollars) (funding id: 108K398)
- 2007 Title: *Cortical correlates of global motion perception*. UMN Center for Magnetic Resonance Research - Neuroscience Core Center/Biotechnology Research Resource Grant funded by NIH Neuroscience Blueprint Interdisciplinary Center Core Grant (P30 NS057091) Awarded: 30 hrs scan time (Siemens 3T). Project Duration: 6 Months

PROFESSIONAL SERVICES

Journal review: Journal of Vision, Vision Research, Journal of the Optical Society of America A (JOSA A), PLoS Computational Biology, Frontiers in Human Neuroscience

Grant proposal review: TUBITAK, NSF, Netherlands Organization for Scientific Research

Bilkent University strategic planning: Served in the research strategies subcommittee (2012)

DISSEMINATION

International Summer School and Workshop on Brain Dynamics I and II. July 23 - 28 , 2012, and July 1-6, 2013, at the Institute of Theoretical and Applied Physics (ITAP) Marmaris, TURKEY. Member of the scientific organization committee

PROFESSIONAL MEMBERSHIPS/SOCIETIES

Society for Neuroscience (2010-present)

Türk Manyetik Rezonans Derneği (Turkish Society of Magnetic Resonance)(2009-present)

Beyin Araştırmaları Derneği (Brain Research Society)(2009-present)

Optical Society of America (2009-2010)

Vision Sciences Society (2001-2008)

American Physical Society (1999-2000)

Türk Fizik Derneği (1999-2000)

PUBLICATIONS¹

BOOK CHAPTER

- 1 Maloney, L.T., Gerhard, H.E., Boyaci, H., & Doerschner, K. (2010). *Surface color perception and light field estimation in 3D scenes*. In L. Harris & M. Jenkins (Eds.), *Vision in 3D environments* (pp. 65-88). Cambridge, UK: Cambridge University Press.

REFEREED JOURNAL ARTICLES

- 1 Pamir, Z, Boyaci, H (2016). *Context-dependent Lightness Affects Perceived Contrast*. *Vision Research*, **124**: 24-33. doi: 10.1016/j.visres.2016.06.003.
- 2 Turkozer, HB, Pamir, Z, Boyaci, H (2016). *Contrast Affects fMRI Activity in Middle Temporal Cortex Related to Center-Surround Interaction in Motion Perception*. *Frontiers in Psychology*, **7**:454, 1-8, <http://journal.frontiersin.org/article/10.3389/fpsyg.2016.00454/full>, doi: 10.3389/fpsyg.2016.00454
- 3 Boyaci, H, Şimşek, MK, Subaşı, E (2014). *Effect of contiguity and figure-ground organization on the area rule of lightness*. *Journal of Vision*, **14**(13):26, 1-11, <http://www.journalofvision.org/content/14/13/26.full>, doi: 10.1167/14.13.26

¹See <http://scholar.google.com/citations?user=yYPHYKcAAAAJ> for citations

- 4 Akin, B, Ozdem, C, Eroglu, S, Taslak Keskin, D, Fang, F, Doerschner, K, Kersten, D, Boyaci, H. (2014). *Attention modulates neuronal correlates of interhemispheric integration and global motion perception*. Journal of Vision, **14**(12):30, 1-13, <http://www.journalofvision.org/content/14/12/30.full>, doi:10.1167/14.12.30
- 5 Behroozi, M., Daliri, M.R., Boyaci, H. (2011). *Statistical analysis methods for the fMRI data*. Basic and Clinical Neuroscience, **2**(4), 67-74. http://bcn.tums.ac.ir/browse.php?a_code=A-10-1-78&sid=1&slc_lang=en.
- 6 Gulsuner, S., Tekinay, A.B., Doerschner, K., Boyaci, H., Bilguvar, K., Unal, H., Ors, A., Onat, O.E., Atalar, E., Basak, A.N., Topaloglu, H., Kansu, T., Tan, M., Tan, U., Gunel, M., Ozcelik, T. (2011). *Homozygosity mapping and targeted genomic sequencing reveal the gene responsible for cerebellar hypoplasia and quadrupedal locomotion in a consanguineous kindred*. Genome Research, **21**, pp. 1995-2003. <http://genome.cshlp.org/content/21/12/1995.abstract>, doi:10.1101/gr.126110.111
- 7 Barak, T. , Kwan, K.Y. , Louvi, A., Demirbilek, V., Saygi, S., Tüysüz, B., Choi, M., Boyaci, H., Doerschner, K., et al. (2011). *Recessive LAMC3 mutations cause malformations of occipital cortical development*. Nature Genetics, **43**, 590-594, <http://www.nature.com/ng/journal/v43/n6/full/ng.836.html>, doi:10.1038/ng.836.
- 8 Doerschner, K., Maloney, LT, Boyaci, H. (2010). *Perceived Glossiness in High Dynamic Range Scenes*. Journal of Vision, **10**(9):11, 1-11, <http://www.journalofvision.org/content/10/9/11.full>, doi:10.1167/10.9.11
- 9 Boyaci, H., Fang, F., Murray, SO, Kersten, D. (2010). *Perceptual grouping-dependent lightness processing in human early visual cortex*. Journal of Vision, **10**(9):4, 1-12, <http://www.journalofvision.org/content/10/9/4.full>, doi:10.1167/10.9.4
- 10 Doerschner, K., Boyaci, H., Maloney, L.T. (2010). *Estimating the glossiness transfer function induced by illumination change and testing its transitivity*. Journal of Vision, **10**(4):8, 1-9, <http://journalofvision.org/10/4/8/>, doi:10.1167/10.4.8
- 11 Fang, F., Boyaci, H., Kersten, D. (2009). *Border ownership selectivity in human early visual cortex and its modulation by attention*. Journal of Neuroscience, **29** (2), 460-465. doi:10.1523/JNEUROSCI.4628-08.2009
- 12 Fang, F., Boyaci, H., Kersten, D., and Murray, S.O. (2008). *Attention-dependent representation of a size illusion in human V1*. Current Biology, **18** (21), 1707-1712. doi:10.1016/j.cub.2008.09.025
- 13 Doerschner, K., Boyaci, H., Maloney, L.T. (2007). *Testing limits on matte surface color perception in three-dimensional scenes with complex light fields*. Vision Research, **47**, 3409-3423. doi:10.1016/j.visres.2007.09.020
- 14 Boyaci, H., Fang, F., Murray, S.O., and Kersten, D. (2007). *Responses to lightness variations in early human visual cortex*. Current Biology, **17**, 989-993. doi:10.1016/j.cub.2007.05.005.
- 15 Boyaci, H., Doerschner, K., Snyder, J., and Maloney, L.T. (2006). *Surface Color Perception in Three-Dimensional Scenes*. Visual Neuroscience, **23**, 311-321. doi:10.1017/S0952523806233431

- 16 Murray, S.O., Boyaci, H., and Kersten, D. (2006). *The representation of perceived angular size in human primary visual cortex*. *Nature Neuroscience*, **9**, 429-434. doi:10.1038/nn1641
- 17 Boyaci, H., Doerschner, K., and Maloney, L. T. (2006). *Cues to an equivalent lighting model*. *Journal of Vision*, **6**, 106-118. doi:10.1167/6.2.2
- 18 Boyaci, H., Doerschner, K., and Maloney, L. T. (2004). *Perceived surface color in binocularly-viewed scenes with two light sources differing in chromaticity*. *Journal of Vision*, **4**, 664-679. doi:10.1167/4.9.1
- 19 Doerschner, K., Boyaci, H., and Maloney, L. T. (2004). *Human observers compensate for secondary illumination originating in nearby chromatic surfaces*. *Journal of Vision*, **4**, 92-105. doi:10.1167/4.2.3
- 20 Boyaci, H., Maloney, L. T., and Hersh, S. (2003). *The effect of perceived surface orientation on perceived surface albedo in binocularly viewed scenes*. *Journal of Vision*, **3**, 541-553. doi:10.1167/3.8.2
- 21 Kulik, I.O., Boyaci, H. and Gedik, Z. (2001). *Parity Effect in Mesoscopic and Nanoscopic Superconducting Particles*, *Physica C* **352**, 46-50. doi:10.1016/S0921-4534(00)01673-7. Also in <http://arxiv.org/abs/cond-mat/0006003>
- 22 Boyaci, H., Gedik, Z., and Kulik, I.O. (2000). *Superconductivity in mesoscopic metal particles*, *Journal of Superconductivity and Novel Magnetism* **13**, 1031-1040. doi:10.1023/A:1007800809922. Also in <http://arxiv.org/abs/cond-mat/9909386>.
- 23 Boyaci, H. and Kulik, I.O. (1999). *Cooper instability in the occupation dependent hopping Hamiltonians*, *Low Temperature Physics* **25**, 625-634. doi:10.1063/1.593807. Also in <http://arxiv.org/abs/cond-mat/9904118>.
- 24 Boyaci, H. and Kulik, I.O. (1998). *Bound electron pairs in the strongly correlated models of high temperature superconductivity*, *Low Temperature Physics* **24**, 239-246. doi:10.1063/1.593577

REFEREED CONFERENCE PROCEEDINGS

- 1 Boyaci, H., Akarun, L. (2008). *Bilgisayar ve insanda renkli gorme - Color vision in humans and computers*. IEEE 16. Sinyal Isleme, Iletisim ve Uygulamalari Kurultayi - IEEE 16th Signal Processing and Communications Applications Conference, April 20-22 2008, Didim Turkey.
- 2 Aksoy, S., Boyaci, H., Gokcay, D. (2008). *Nesne tanimada baglam ve anlambilimsel siniflandirmanin onemi: Bilgisayarla gorme ve insanda gorme alanlarindaki calismalar - The importance of context and semantic descriptions in object recognition: Studies in computer vision and human vision*. IEEE 16. Sinyal Isleme, Iletisim ve Uygulamalari Kurultayi - IEEE 16th Signal Processing and Communications Applications Conference, April 20-22 2008, Didim Turkey.
- 3 Maloney, L.T., Boyaci, H., Doerschner, K. (2005). *Surface color perception as an inverse problem in biological vision*. *Computational Imaging III*, edited by Charles A. Bouman, Eric L. Miller, Proceedings of SPIE-IS&T Electronic Imaging, SPIE Vol. 5674. doi:10.1117/12.598463
- 4 H. Boyaci, Z. Gedik, and I. O. Kulik (2000). *Superconductivity in ultrasmall metallic particles*, in *Quantum mesoscopic phenomena and mesoscopic devices in microelectronics. Proceedings of the NATO Advanced Study Institute, Ankara, Turkey, 13-25 June 1999*, Edited by Igor O. Kulik and Recai Ellialtioglu, Kluwer Academic Publishers, Dordrecht (2000).

REFEREED CONFERENCE ABSTRACTS

- 1 Boyaci, H, Pamir, Z, *Behavioral and neural correlates of the effect of context-dependent lightness on threshold and suprathreshold contrast perception* [Abstract], Annual meeting of the Society for Neuroscience, San Diego, USA, November 2016.
- 2 Pamir, Z, Boyaci, H, *Bağlama dayalı açıklığın eşik üstü ve eşik seviyesindeki kontrast algısına etkisi* [Abstract], 14. Ulusal Sinir Bilim Kongresi, Ankara, Turkey, May 26-29, 2016.
- 3 Pamir, Z, Boyaci, H, *Context-dependent Brightness Affects Perceived Contrast at Threshold and Suprathreshold Levels* [Abstract], Vision Sciences Society 16th Annual Meeting, St. Pete Beach, Florida, May 13-18, 2016. Journal of Vision September 2016, Vol.16, 821. doi:10.1167/16.12.821
- 4 Pamir, Z, Boyaci, H, *The Effect of Context-dependent Brightness on Contrast Perception* [Abstract]. 38th European Conference on Visual Perception. Liverpool, UK, August 22-27, 2015.
- 5 Gilani, I, Boyaci, P, Boyaci, H, Doerschner, K. *Dynamic topographic connectivity profile: Application to connectivity patterns in the human basal ganglia* [Abstract]. Annual meeting of the Society for Neuroscience, San Diego, USA, November 2013.
- 6 Boyaci, H, Akin, B, Doerschner, K, Eroglu, S, Fang, F, Kersten, D, Ozdem, C, Taslak, D. *Perceived global motion-dependent activity in human early visual cortex under two attentional conditions* [Abstract]. 36th European Conference on Visual Perception (ECPV), Bremen, Germany, August 25-29, 2013.
- 7 Gülban, ÖF, Işık, Aİ, Boyaci, H. *Classification of equiluminant color gratings in the human visual cortex with multi-voxel pattern analysis: A color space-free approach* [Abstract]. 36th European Conference on Visual Perception (ECPV), Bremen, Germany, August 25-29, 2013.
- 8 Turkozer, HB, Pamir, Z, Boyaci H. *Cortical Correlates of Motion Surround Suppression in Area MT* [Abstract]. 36th European Conference on Visual Perception (ECPV), Bremen, Germany, August 25-29, 2013.
- 9 Işık, Aİ, Gülban, ÖF, Boyaci, H. *İnsan Görsel Korteksinde Renk Kodlanmasının Çoklu Voksel Örüntü Analizi ile İncelenmesi* [Abstract]. Türk Manyetik Rezonans Derneği 18. Yıllık Toplantısı, Ankara, Turkey, May 23-25, 2013.
- 10 Gilani, I, Boyaci, P, Boyaci, H, Doerschner, K. *Yüksek Çözünürlüklü Bütün Beyin iMRG için 12 Kanallı Kafa Bobini Kullanarak 3T'de Çok Bantlı, Çok Kesitli GE-EPI Optimizasyonu* [Abstract]. Türk Manyetik Rezonans Derneği 18. Yıllık Toplantısı, Ankara, Turkey, May 23-25, 2013.
- 11 Gilani, I, Boyaci, P, Boyaci, H, Doerschner, K. *Çok Bantlı, Çok Kesitli GE-EPI Sekansı Kullanılarak Elde Edilen Bütün Beyin ve Bazal Ganglia İstirahat Hali Ağları* [Abstract]. Türk Manyetik Rezonans Derneği 18. Yıllık Toplantısı, Ankara, Turkey, May 23-25, 2013.
- 12 Boyaci, H, Akin, B, Doerschner, K, Eroglu, S, Fang, F, Kersten, D, Ozdem, C, Taslak, D. *İnsan erken görsel korteksinde algılanan global harekete dayalı aktivite* [Abstract]. Türk Manyetik Rezonans Derneği 18. Yıllık Toplantısı, Ankara, Turkey, May 23-25, 2013.

- 13 Turkozer, HB, Pamir, Z, Boyaci H. *Hareket algısında çevresel baskılamanın MT (orta temporal) bölgesindeki aktivite ile ilişkisi* [Abstract]. Türk Manyetik Rezonans Derneği 18. Yıllık Toplantısı, Ankara, Turkey, May 23-25, 2013.
- 14 Shen, H, Mannion, D, Lee, S, Boyaci, H, Fang, F, Kersten, D. *Effect of Smooth Shape on Lightness Processing in Human Visual Cortex* [Abstract]. The Annual Meeting of the Vision Science Society, Naples, Florida, May 2013.
- 15 Boyacı, P, Gilani, I, Örs, A, Gülsüner, S, Uysal, H, Bilgen, R, Doerschner, K, Boyacı, H, Özçelik, T. *Doğumsal ayna hareketi bozukluğu (AHB) hastalığında bazal ganglionlar arasında fonksiyonel bağlantı analizi* [Abstract]. 2. Nörometabolik dismorfoloji sempozyumu, İstanbul, Turkey, March 8-9, 2013.
- 16 Boyaci, H, Subasi, E, Kobal, M. *Effect of relative total area on perceived lightness* [Abstract]. 35th European Conference on Visual Perception (ECVP), Alghero, Italy, September 2-6, 2012.
- 17 Yurdakul, A, Guneyer, D, Kumral, D, Akin, B, Boyaci, H. *Farklı uzamsal dikkat şartlarının retinotopik eşleşmeye etkisinin fMRI ile incelenmesi* [Abstract]. Türk Manyetik Rezonans Derneği 17. Yıllık Toplantısı, Ankara, Turkey, 24-26 May, 2012.
- 18 Boyaci, H, Ors, A., Boyaci, P., Ozcelik, T., Uysal H., Doerschner K. *Structural and functional analysis of brains of patients with congenital Mirror Movement Disorder* [Abstract]. 41st Annual Meeting of the Society for Neuroscience, Washington DC, November 12-16 2011.
- 19 Doerschner, K., Ozcelik, T., Gunel, M., Serap, S., Boyaci, H. *Retinotopy and white matter integrity in a patient with occipital pachygyria* [Abstract]. 41st Annual Meeting of the Society for Neuroscience, Washington DC, November 12-16 2011.
- 20 Yildirim, F. and Boyaci, H. *Spatial pattern of activity in primary visual cortex can be modulated by distance perception based on binocular stereo cues* [Abstract]. European Conference of Visual Perception (ECVP), Toulouse France, August 28 - September 1, 2011.
- 21 Erten, B., Mustafaoglu, N., Boyaci, H. and Doerschner, K. *Visual perceptual asymmetries can be modified via visual field deprivation in adult humans*[Abstract]. European Conference of Visual Perception (ECVP), August 28 - September 1, 2011, Toulouse France.
- 22 Ors, A., Abaci Turk, E., Urgen, B., Boyaci, H, and Doerschner, K., *iMRG ile Duyu Korteksinin İşlevsel Haritalaması* [Abstract]. Türk Manyetik Rezonans Derneği 16. Yıllık Toplantısı, İstanbul, 19-21 May, 2011.
- 23 Yilmaz, O., Gevrekci, M., Boyaci, H. and Doerschner, K., *Difüzyon Tensör Görüntülemeye Süperçözünürlük* [Abstract]. Türk Manyetik Rezonans Derneği 16. Yıllık Toplantısı, İstanbul, 19-21 May, 2011.
- 24 Ors, A., Doerschner, K., Gulsuner, S., Uysal, H., Bilgen, R., Ozcelik, T., and Boyaci, H. (2011). *Doğumsal Ayna Hareketi Bozukluğu (AHB) Hastalığında Beynin Fonksiyonel ve Morfolojik Analizleri* [Abstract]. 10. Ulusal Sinirbilimleri Kongresi, İstanbul, Türkiye, 9-12 April, 2011
- 25 Boyaci, H, Doerschner, K, Eroglu, S, Fang, F, Kersten, D, Ozdem, C, Taslak, D (2010). *Perception of global form modulates motion responses in human early visual cortex* [Abstract]. 40th Annual Meeting of the Society for Neuroscience, San Diego, California, November 13-17, 2010.

- 26 Erten, B., Boyaci, H. (2010). *Do Vernier acuity thresholds depend on perceived of actual retinal eccentricity?* [Abstract]. 33rd European Conference on Visual Perception, Lausanne, Switzerland, August 22-26, 2010.
- 27 Doerschner, K., Boyaci, H., Olman, C. A. (2009). *Functional properties of V1 neurons coding for luminance histogram skew.* European Society for Magnetic Resonance in Medicine and Biology, 26th Annual Scientific Meeting, Antalya, Turkey, October 1-3, 2009.
- 28 Boyaci, H., Fang, F., Murray, S. O., Kersten, D. (2009) *Perceptual grouping and lightness* [Abstract]. *Journal of Vision* **9** (14). Optical Society of America Fall Vision Meeting, Seattle, Washington, September 24-27, 2009. <http://www.journalofvision.org/content/9/14/>.
- 29 Boyaci, H., Doerschner, K., Murray, S. O. (2009). *Shape-dependence of a size illusion explained by spatial mapping in V1* [Abstract]. *Journal of Vision*, **9**(8):38, 38a. The Annual Meeting of the Vision Science Society, Naples, Florida, May 2009. <http://journalofvision.org/9/8/38/>.
- 30 Runeson, E., Boyaci, H., McLaughlin, J., Osterhout, L., Murray, S. (2009). *Two representations of object size in early human visual cortex* [Abstract]. *Journal of Vision*, **9**(8):37, 37a. The Annual Meeting of the Vision Science Society, Naples, Florida, May 2009. <http://journalofvision.org/9/8/37/>.
- 31 Olman, C., Boyaci, H., Schumacher, J., Fang, F., Doerschner, K. (2009). *Receptive field properties of V1 neurons coding for luminance histogram skew* [Abstract]. *Journal of Vision*, **9**(8):774, 774a. The Annual Meeting of the Vision Science Society, Naples, Florida, May 2009. <http://journalofvision.org/9/8/774/>.
- 32 Boyaci, H., Fang, F., Murray, S.O., Albanese, G., Kersten, D. (2008). *Time course of cortical responses to illusory and real lightness changes* [Abstract]. *Journal of Vision*, **8**(6):906, 960a. The Annual Meeting of the Vision Science Society, Naples, Florida, May 2008. <http://journalofvision.org/8/6/960/>
- 33 Fang, F., Boyaci, H., Kersten, D. (2008). *Border ownership representation in human early visual cortex and its modulation by attention* [Abstract]. *Journal of Vision*, **8**(6):393, 393a. The Annual Meeting of the Vision Science Society, Naples, Florida, May 2008. <http://journalofvision.org/8/6/393/>
- 34 Olman, C., Boyaci, H., Fang, F., Doerschner, K. (2008). *V1 responses to different types of luminance histogram contrast* [Abstract]. *Journal of Vision*, **8**(6):345, 345a. The Annual Meeting of the Vision Science Society, Naples, Florida, May 2008. <http://journalofvision.org/8/6/345/>
- 35 Boyaci, H., Fang, F., Murray, S.O., Kersten, D. (2007). *Amodal completion affects lightness perception* [Abstract]. *Journal of Vision*, **7**(9):235, 235a. The Annual Meeting of the Vision Science Society, Sarasota, Florida, May 2007. <http://journalofvision.org/7/9/235/>
- 36 Murray, S.O., Fang, F., Boyaci, H., Kersten, D. (2007). *Perceived eccentricity difference is reflected by shifts in the spatial profiles of human V1 activity* [Abstract]. *Journal of Vision*, **7**(9):832, 832a. The Annual Meeting of the Vision Science Society, Sarasota, Florida, May 2007. <http://journalofvision.org/7/9/832/>
- 37 Boyaci, H., Fang, F., Kersten, D.J., & Murray, S.O. (2006). *Human cortical responses to illusory and actual luminance variations* [Abstract]. *Journal of Vision*, **6**(6):706, 706a. The Annual Meeting of the Vision Science Society, Sarasota, Florida, May 2006. <http://journalofvision.org/6/6/706/>

- 38 Maloney, L. T., Boyaci, H., Doerschner, K. & Snyder, J. L. (2006). *Surface color perception in three-dimensional scenes*. Color Vision Symposium, Tagung experimentell arbeitender Psychologen: TeaP2006, Mainz, Germany, March, 2006.
- 39 Doerschner, K., Boyaci, H., Maloney, L. T., (2005). *Spherical harmonic representation of illumination in complex, 3D scenes*. Perception **34** ECVP Abstract Supplement. European Conference on Visual Perception, A Coruna, Spain, August 2005. <http://www.perceptionweb.com/ecvp05/0411.html>
- 40 Murray, S.O., Boyaci, H., Kersten, D.J., (2005). *The emergence of object size invariance in the human visual cortex* [Abstract]. Journal of Vision, **5**(8):744, 744a. The Annual Meeting of the Vision Sciences Society, Sarasota, Florida, May 2005. <http://www.journalofvision.org/5/8/744/>
- 41 Maloney, L. T., Boyaci, H., Doerschner, K., (2005). *Representing Spatially and Chromatically Varying Illumination Using Spherical Harmonics in Human Vision* [Abstract]. Journal of Vision, **5**(8):786, 786a. The Annual Meeting of the Vision Sciences Society, Sarasota, Florida, May 2005. <http://www.journalofvision.org/5/8/786/>
- 42 Doerschner, K., Boyaci, H., Maloney, L. T., (2005). *Representing the spatial and chromatic distribution of the illuminant in scenes with multiple punctate chromatic light sources* [Abstract]. Journal of Vision, **5**(8):785, 785a. The Annual Meeting of the Vision Sciences Society, Sarasota, Florida, May 2005. <http://www.journalofvision.org/5/8/785/>
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SEMINARS, INVITED TALKS AND LECTURES

- 1 *Effect of context on contrast and motion perception*, Basic and Clinical Neuroscience Congress, December 2016, Tehran, Iran
- 2 *Lightness and Its Cortical Correlates in Context*, Psychology Colloquium, JL Universität Giessen, 10 February 2016, Giessen, Germany
- 3 *Bilişsel Süreçlerin Biyolojik Temellerinin İşlevsel Manyetik Rezonans Görüntüleme ile Araştırılması*, Hacettepe Üniversitesi İç Hastalıkları ABD, 20 January 2016, Ankara
- 4 *Reality Constructed. How Does the Visual System Work?*, Library Lunchtime Lecture Series, Bilkent University, 16 December 2015
- 5 *Zengin Bağlam (Çevre) İçinde Açıklık ve Renk Algısı*, The Third Experimental and Cognitive Psychology Symposium, Ankara Üniversitesi, September 2-3, 2015
- 6 *Context-dependent Lightness and Its Implications for Connectivity in Human Visual Cortex*, Neuroscience: From Structure to Function and Back, Second German-Turkish Science Dialogue, Ruhr-University Bochum, Germany, June 16, 2015
- 7 *Context-dependent Lightness Processing in Human Visual System*, Department of Psychology, University of California, San Diego, April 29, 2015
- 8 *Interhemispheric integration (Binding) in Human Visual System*, Cognitive Neuroscience and Neuropsychology lab, University of California, San Diego, November 17, 2014
- 9 *Visual Neuroscience*. 1st Joint Turkish-German Symposium on Human Neuroscience, 5-7 June 2014, Berlin, Germany
- 10 *Bağlamın Görsel Algıya Etkileri ve Bu Etkilerin Sinir Görüntüleme Yöntemleri ile İncelenmesi*. Ulusal Sinirbilim Konferansı, 28-31 Mayıs 2014, İstanbul, Türkiye
- 11 *How Context Influences Human Visual Perception*. Ruhr-University Bochum, 6 March 2014, Bochum, Germany
- 12 *How Context Influences Human Visual Perception*. Technische Universität Berlin, 5 March 2014, Berlin, Germany

- 13 *Contextual Influences on Human Visual Perception*. Giessen University, Department of Psychology, 3 March 2014, Giessen, Germany
- 14 *Hemisferlerarası Entegrasyon ve Bütünleşik Bir Görsel Alanın Oluşumuyla İlgili Nöral Aktiviteye Uzamsal Dikkatin Etkileri*. Bilişsel Psikoloji Toplantısı, Boğaziçi Üniversitesi, İstanbul, Turkey, 12 September 2013
- 15 *Human Visual Perception in Complex Scenes and Related Cortical Activity*. 27th European Federation of Psychology Students' Association Congress, Izmir, Turkey, 21-28 April 2013
- 16 *Human Visual System*. Middle East Technical University Computer Science Group Meeting, 29 March 2013, Ankara, Turkey
- 17 *İnsan Görsel Korteksindeki Aktivitenin İsevsel Manyetik Rezonans Görüntüleme Tekniği ile İncelenmesi*. 1. ODTU Sinirbilim Günleri, Ankara, Turkey, 16-17 February 2013
- 18 *Human Visual Perception and Related Cortical Activity*. UNAM, Bilkent University, Ankara, 23 November 2012
- 19 *Investigation of Neural Activity in Human Visual Cortex in Complex Scenes*. Molecular Biology & Genetics Department, Bilkent University Ankara, Turkey, 26 September 2012
- 20 *Investigation of Neural Activity in Human Visual Cortex*. International Summer School And Workshop on Brain Dynamics, Marmaris, Turkey, 23-28 July 2012
- 21 *Bilişsel Süreçlerin Biyolojik Temellerinin fMR ile Görüntülenmesi*. Türk Manyetik Rezonans Derneği 17. Yıllık Toplantısı, Ankara, 24-26 May 2012
- 22 *Psikoloji ve Bilişsel Bilimler: Bilişsel Nörobilim*. Bilkent University Cognitive Sciences Club, Ankara, 3 May 2012
- 23 *Bağlamın görsel algıya etkilerinin kortikal ilişkisi*. Hacettepe Üniversitesi Nörolojik Bilimler ve Psikiyatri Enstitüsü, Nörobilim Semineri, Ankara, 30 April 2012
- 24 *Bağlamda Görsel Algı ve Kortikal İşlevler: Bağlamın Hareket Algısına Etkileri*, GEBİP 2011 Yılı Değerlendirme Toplantısı, 9-11 September 2011, Izmir, Turkey
- 25 *Neural correlates of lightness processing in early human visual cortex, Perception of material properties workshop*, Schloss Rauschholzhausen, Germany, June 1-5 2011
- 26 *Görüntüleme Genomiği*, Ankara Üniversitesi Beyin Araştırmaları Merkezi, Beyin Farkındalık Haftası Etkinlikleri, 16 March 2011
- 27 *Genomik Görüntüleme*, Gazi Üniversitesi Nörobilim Doktora Programı Semineri, 11 March 2011
- 28 *Visual Perception in Context & Imaging Genomics*, Koç University, PhD program seminar, 6 January 2011
- 29 *Functional Magnetic Resonance Imaging Course* in UMRAM, Ankara, 17-19 September 2010.
- 30 *Bağlamın görsel algıya etkileri*, Uludağ University, Department of Psychology, 2009-2010 Fall Seminar Series, 8 January 2010.

- 31 Lecture series: *Functional MRI from the perspective of cognitive neuroscience*, Bilkent University, Biomedical Engineering Group, 7 December 2009 - 13 January 2010, four lectures
- 32 *Görsel öğrenme ve hafıza*, Gazi Üniversitesi Nörofelsefe Sempozyumu, 11-12 December 2009, Ankara.
- 33 *Lightness and Color Perception in 3D Context*, University of Washington, Department of Psychology, 23 September, 2009, Seattle, WA USA.
- 34 *Prospects for Cognitive Neuroscience in Genetics*, Mediterranean Medical Genetics Meeting, 28 June 2009, Ankara.
- 35 *Effects of global context on cortical processing of visual information*, METU Psychology Department, 22 May 2009, Ankara.
- 36 *Cognitive neuroscience and the human visual system*, Bilkent Faculty of Science Seminar, 1 April 2009, Ankara.
- 37 *Bağlamda görsel algı*, ODTÜ Psikoloji Topluluğu Psikoloji Günleri, 11-13 March 2009, Ankara.
- 38 *Görsel algının kortikal karşılığı*, Gazi Üniversitesi Nörofelsefe Sempozyumu, 28-29 November 2008, Ankara.
- 39 *Visual perception in context*, SISSA Sector of Cognitive Neuroscience, 17 October 2008, Trieste, Italy.
- 40 *Cortical correlates of contextual influences on visual perception*, METU Informatics Institute, 25 April 2008, Ankara.