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Education

Ph. D
Sept 2007 – Nov 2010

University College London (UCL), London, UK
Depart. Of Cognitive, Perceptual and Brain
Sciences *Vision-based mechanisms of time
perception* Advisor: Prof Alan Johnston

Thesis Examiners: Prof Patrick Cavanagh^{1,2}

Prof Vincent Walsh³

1 Harvard University 2 Université Paris Descartes 3 UCL
No correction was given on the thesis

All Masters courses were also completed
successfully.
(Please see the completed courses section)

Middle East Technical University (METU), Ankara, TR
Major in Psychology (*High Honours – 2002 – 2006*)
Double Major in Biology (*2003 – 2007*)

B. S.
Sept 2002 – June 2007

Awards, Scholarships & Grants

TÜBİTAK, Turkey Research Grant 1001 Program

March 2018 - continue

The Scientific and Technological Research Council of Turkey

Principal Investigator: *Motion-Induced Prediction in the Visual System*

TÜBİTAK, 2232 International Research Grant Awarded to Dr Frank Zenker

November 2019 - continue

The Scientific and Technological Research Council of

Consultant: *Models, Theories, Research Programs*

Bogazici University BAP Start-Up Grant No: 9248

Jan 2014 – Jan 2017

Principal Investigator: *A Psychophysical*

Investigation of Time Perception

ESRC Postdoctoral Fellowship, UK

Jan 2011 – Jan 2012

An fMRI Investigation of Visual Time Perception

Mentor: Prof Marty Sereno

The Leverhulme Trust, UK

2007 - 2010

PhD Scholarship (maintenance and fees on EU rate)

NTT Communication Science Laboratories, Japan

2007 - 2010

PhD Scholarship (overseas fees)

UCL Graduate School Conference Fund, UK

May 2008 – May 2009

TÜBİTAK PhD Scholarship, Turkey

2007 - 2010

The Scientific and Technological Research Council of
Turkey

Scholarship (PhD Abroad) "declined"

TÜBİTAK Grad Studies Scholarship, Turkey

2007 - 2009

The Scientific and Technological Research Council of
Turkey

Scholarship (Graduate Studies in Turkey) "declined"

Work Experience

Assistant Professor

Oct 2013 – continue

Dept of Psychology
Bogazici University

Postdoctoral Research Associate Dept of Psychology Royal Holloway University, London / UK	Feb 2012 – Dec 2012
Postdoctoral Research Fellow Dept of Cognitive, Perceptual and Brain Sciences University College London, London / UK	Feb 2011 – Feb 2012
Research Assistant Dept of Cognitive, Perceptual and Brain Sciences University College London, London / UK	Oct 2011 – Jan 2011
Undergraduate Seminar Group Tutor Dept of Cognitive, Perceptual and Brain Sciences University College London, London / UK	2010

Recent Professional and Outreach Activities

Chair, Cognitive Science Graduate Program Bogazici University, Istanbul / Turkey http://cogsci.boun.edu.tr/	2018 - continue
Member, Bogazici University Social Sciences Institute Ethics Committee Bogazici University, Istanbul / Turkey	2018- 2020
Member of the Organising Committee, ISBCS 2019 International Symposium on Brain and Cognitive Science Yeditepe University, Istanbul / Turkey http://isbcs2019.yeditepe.edu.tr/	2019
Head of the Organising Committee, ISBCS 2018 International Symposium on Brain and Cognitive Science Bogazici University, Istanbul / Turkey http://www.cogsci.boun.edu.tr/isbcs/2018/index.html	2018

Technical & Special Skills

Software: FreeSurfer & AFNI (two separate sets of automated tools for analysing MRI data), VSG Toolbox for Matlab (visual stimulus generator to generate psychophysical stimuli), Matlab Pscyhtoolbox (a set of MATLAB and GNU/Octave functions for vision research), SPSS (a package for statistical analysis), Origin (Data analysis and graphing software), EndNote (software tool to manage bibliographies).

Operating Systems: Windows, Ubuntu Linux (experience also includes commands in text editors such as *vi* and configurations in shell scripts).

Languages: Turkish (native), English (fluent), French (intermediate)

Publications

- 1.) Alaşan, D. & **Ayhan, I.** (Under Review) Zaman algısının nöral ve psikolojik modelleri: Görsel sistemde bir "zaman yolağı" kuramına doğru. *Nesne*. (in Turkish)
- 2.) Akkoc, T., Ugur, E. & **Ayhan, I.** (Under Revision) Trick the body trick the mind: The effect of avatar representation on the perception of available action possibilities in Virtual Reality.
- 3.) Basgol, H., **Ayhan, I.** & Ugur, E. (Under Revision) Psychological, Computational and Robotic Models of Time Perception. *IEEE Transactions on Cognitive and Developmental Systems*.
- 4.) **Ayhan, I.** & Ünal, G. (In Press) Görsel yanılsamalar bağlamında görsel algının esasları. *Nesne Psikoloji Dergisi*. (in Turkish)
- 5.) Kurtcan, A. M., Thorpe, L & **Ayhan, I.** (2020) The effect of action on perceptual feature binding. *Vision Research*, 177, 97-108. Doi: 10/1016/j.visres.2020.09.001.
- 6.) Ünal, G. & **Ayhan, I.** (2020) Beyindeki saatler. *Nesne Psikoloji Dergisi*, 8 (17), 270-283. (in Turkish)
- 7.) **Ayhan, I.** & Ozbagci (2020) Action-induced changes in the perceived temporal features of visual events. *Vision Research*, 175, 1-13, doi: 10.1016/j.visres.2020.05.008
- 8.) Gulhan, D., & **Ayhan, I.** (2019). Short-term global motion adaptation induces a compression in the subjective duration of dynamic visual events. *Journal of Vision*, 19(5), 19-19. doi: 10.1167/19.5.19.

- 9.) Bruno, A., **Ayhan, I.**, & Johnston, A. (2015). Changes in apparent duration follow shifts in perceptual timing. *Journal of Vision*, 15(6):2. doi: 10.1167/15.6.2.
- 10.) **Ayhan, I.**, Revina, Y., Bruno, A., & Johnston, A. (2012). Duration judgments over multiple elements. *Frontiers in Perception Science*.3: 459. doi: 10.3389/fpsyg.2012.00459
- 11.) Bruno, A., **Ayhan, I.**, & Johnston, A. (2012). Effects of temporal features and order on the apparent duration of a visual stimulus. *Frontiers in Perception Science*. 3: 90. doi: 10.3389/fpsyg.2012.00090.
- 12.) Bruno, A., **Ayhan, I.**, & Johnston, A. (2011). Duration expansion at low luminance levels. *Journal of Vision*, 11(14):13, doi: 10.1167/11.14.13.
- 13.) **Ayhan, I.**, Bruno, A., Nishida, S., & Johnston, A. (2011). The effect of luminance signal on the strength of adaptation-induced temporal compression. *Journal of Vision*, 11(7): 22, 1-17, doi: 10.1167/11.7.22.
- 14.) Johnston, A., Bruno, A., & **Ayhan, I.** (2011). Retinotopic selectivity of adaptation-based compression of event duration: Reply to Burr, Cicchini, Arrighi, and Morrone. *Journal of Vision*, 10(10):30b, 1-3, doi:10.1167/10.10.30b
- 15.) Bruno, A., **Ayhan, I.**, & Johnston, A. (2010). Retinotopic adaptation-based visual duration compression. *Journal of Vision*, 10(10):30, 1-18, doi: 10.1167/10.10.30.
- 16.) **Ayhan, I.**, Bruno, A., Nishida, S., & Johnston, A. (2009). The spatial tuning of adaptation-based time compression. *Journal of Vision*, 9(11):2, 1-12, doi:10.1167/9.11.2.

Publications In Preparation

- 1.) Alashan, D., Gulhan, D., & **Ayhan, I.** The effect of colour preference on the perception of emotionally ambiguous faces.
- 2.) Senyazar, B., Salah, A. A., & **Ayhan, I.** The role of attention on the minimum presentation duration required for scene recognition.

Talks and Poster Presentations

Invited & Volunteered Talks

- 1.) "Görsel sistemde uyaran hareketi ve motor hareketle tetiklenen öngörü mekanizmaları" (November, 2020 / *peer-reviewed*). Ulusal Sinirbilim Kongresi, İstanbul / Turkey - Ayhan I., Alaşhan, D., Tanrıverdi, D. & Yörüten, M.
- 2.) "Temporal processes in the visual system" (August, 2019 / *peer-reviewed*). European Conference on Visual Perception, Leuven / Belgium
Symposium Convener - "The spatial character of temporal processes". European Conference on Visual Perception, Leuven / Belgium
- 3.) "Charles Bonnet Sendromu; Algıdan Bilince" speaker (May, 2018 / *invited*), 16. Ulusal Sinirbilim Kongresi Türk Nöropsikiyatri Derneği (TNPĐ) Paneli
- 4.) "Manzara Tanımada Dikkatin Etkisi" speaker (September, 2017), 4. Deneysel Bilişsel Psikoloji Sempozyumu, İzmir
- 5.) "Effect of Short-Term Motion Adaptation on Subjective Time" (December, 2016 / *invited*) Bilkent Department of Psychology, Departmental Talk
- 6.) "Yaşa Bağlı Maküler Dejenerasyon Hastalığıyla Oluşan Görsel Deformasyonları Ölçen Yeni Bir Prosedür: Tekrarlı Amsler Grid Prosedürü" speaker (September, 2015) 3. Deneysel Bilişsel Psikoloji Sempozyumu, Ankara
- 7.) "Time and presentation order effects" (February, 2010 / *invited talk*) Perception Laboratory, Université Paris Descartes, Paris / France
- 8.) "Vision-based mechanisms of time perception" (November, 2012 / *job talk*) Depart. Of Psychology, Bogazici University, Istanbul / Turkey
- 9.) "Increasing velocity reduces the perceived duration of a visual interval" (December, 2012 / *peer-reviewed* / Bruno, A., Ayhan, I., & Johnston, A.) Applied Vision Association (AVA) Meeting, London / UK
- 10.) "Measuring image distortions in age-related macular degeneration (AMD)" (December, 2012 / *peer-reviewed* / Ayhan, I., Doyle, E., & Zanker, J.) Applied Vision Association (AVA) Meeting, London / UK
- 11.) "Adaptation-induced duration distortions" (June, 2010 / *selected to represent Dept of Cognitive, Perceptual & Brain Sciences, UCL*) Postgraduate Research Symposium, Faculty of Life Sciences, London / UK
- 12.) "Vision-based mechanisms of time perception" (April, 2010) Computational and Biological Vision Group, Bilkent University, Ankara / Turkey

Poster Presentations

- 1.) Basgol, H., **Ayhan, I.**, & Ugur, E. A computational model of event segmentation and learning (Presented at 2020 International Virtual Symposium on Brain and Cognitive Science)
- 2.) Alashan, D., Canbeyli, R., & **Ayhan, I.** (2018). Multisensory duration reproduction in the supra-second range (Presented at 2018 European Conference on Visual Perception)
- 3.) Ozbagci, D., & **Ayhan, I.** (2018). Action-Induced Compression in the perceived time of visual events (Presented at 2018 European Conference on Visual Perception)

- 4.) Kurtcan, A.M., & **Ayhan, I.** (2017). A Motor Recalibration Influence On Color-motion Asynchrony (CMA) Effect Size In A Visuo Motor Paradigm (Presented at 2017 European Conference on Visual Perception)
- 5.) Gulhan, D., & **Ayhan, I.** (2017). Short-term Adaptation Effects On Perceived Duration In Random Dot Kinematograms (rdks) And Drifting Gratings (Presented at 2017 European Conference on Visual Perception)
- 6.) Alashan, D., Gulhan, D., & **Ayhan, I.** (2016). The effect of colour preference on the perception of emotionally ambiguous faces. (Presented at 4th International Symposium on Brain and Cognitive Science)
- 7.) Senyazar, B., Salah, A. A., & **Ayhan, I.** (2016). The role of attention on the minimum presentation duration required for scene recognition. (To be presented at 2016 European Conference on Visual Perception).
- 8.) Gulhan, D. & **Ayhan, I.** (2016). The perceived duration of global motion in random dot kinematogram (RDK) displays. (Presented at 2016 Vision Sciences Society Annual Meeting).
- 9.) **Ayhan, I.**, Doyle, E., & Zanker, J. (2015). The Iterative Amsler Grid (IAG): A procedure to measure image distortions in Age-Related Macular Degeneration (AMD). (Presented at 2015 European Conference on Visual Perception).
- 10.) **Ayhan, I.**, Doyle, E., & Zanker, J. (2014). Measuring image distortions using an Iterative Amsler Grid (IAG) in patients with age-related macular degeneration. (Presented at 2014 Vision Sciences Society Annual Meeting).
- 11.) **Ayhan, I.**, Holmes, T., & Zanker, J. (2013). Oculomotor stability in the measurement of image distortions in an Iterative Amsler Grid (IAG) procedure. (Presented at 2013 British Neuroscience Association –BNAY Meeting)
- 12.) Bruno, A., **Ayhan, I.**, & Johnston, A. (2012). Slowing down appears to last longer than speeding up. (Presented at 2012 Vision Sciences Society Annual Meeting).
- 13.) **Ayhan, I.**, Bruno, A., Nishida, S., & Johnston, A. (2011). The effect of simultaneous context on perceived duration. (Presented at 2011 Vision Sciences Society Annual Meeting).
- 14.) Bruno, A., **Ayhan, I.**, & Johnston, A. (2011). Apparent duration expansion at low luminance levels. (Presented at 2011 Vision Sciences Society Annual Meeting).
- 15.) Cook, R., **Ayhan, I.**, Lai, A., Johnston, A. (2011). Glance, glimpse or stare? The discrimination of gaze duration. (Presented at 2011 Vision Sciences Society Annual Meeting).
- 16.) **Ayhan, I.**, Bruno, A., Nishida, S., & Johnston, A. (2010). Effect of the luminance signal on adaptation-based duration compression. [Abstract]. *Journal of Vision*, 10(7):1412. (Presented at 2010 Vision Sciences Society Annual Meeting).
- 17.) Bruno, A., **Ayhan, I.**, & Johnston, A. (2010). Influences of stimulus predictability on its perceived duration. [Abstract]. *Journal of Vision*, 10(7):1413. (Presented at 2010 Vision Sciences Society Annual Meeting).
- 18.) **Ayhan, I.**, Bruno, A., & Johnston, A. (2010). Duration compression at low luminance contrast. [Abstract]. *Perception*, In press. (Presented at 2010 AVA Christmas Meeting).
- 19.) **Ayhan, I.**, Bruno, A., Nishida, S., & Johnston, A. (2009). Spatial tuning of adaptation-induced temporal compression [Abstract]. *Journal of Vision*, 9(8):1084, 1084a, <http://journalofvision.org/9/8/1084/>, doi:10.1167/9.8.1084. (Presented at 2009 Sciences Society Annual Meeting).
- 20.) **Ayhan, I.**, Bruno, A., & Johnston, A. (2009). The role of presentation order effects in adaptation based duration compression, [Abstract]. *Perception*, In press. (Presented at 2009 AVA Meeting)
- 21.) **Ayhan, I.**, Bruno, A., & Johnston, A. (2008). Adaptation induced temporal compression is highly space specific [Abstract]. *Journal of Vision*. (Presented at 2008 Vision Sciences Society Annual Meeting).
- 22.) Bruno, A., **Ayhan, I.**, & Johnston, A. (2008). Retinotopic adaptation can influence the apparent duration of a visual stimulus [Abstract]. *Journal of Vision*, 8(6):364, 364a. (Presented at 2008 Vision Sciences Society Annual Meeting).

Courses Taught

Undergraduate Level

Sensation and Perception
 Introduction to Statistics for Psychology I & II
 Experimental Psychology
 Research Methods in Psychology
 Reading and Research in Visual Perception
 Special Topics in Cognitive Psychology

Graduate Level

Advanced Cognitive Psychology
 Research Projects in Psychology I & II
 Programming for Psychology

Supervised MA Theses

- Naciye Tuğçe Akkoç – Interaction between cyberbodies and cyberspace: The effect of avatar abilities on affordance perception in virtual reality (2019)
Supervisor: İnci Ayhan
Co-supervisor: Emre Uğur (Bogazici Uni., Dept. of Computer Engineering)
- Ayşe Melisa Kurtcan - Temporal experience: Action and perception dynamics (2019)
Supervisor: Lucas Thorpe (Bogazici Uni., Dept. of Philosophy)
Co-supervisor: İnci Ayhan
- Ali Taylan Bilik - Neural and cognitive underpinnings of trustworthiness in the prefrontal cortex via optical brain imaging (2019)
Supervisor: İnci Ayhan
Co-supervisor: Tuna Çakar (MEF University, Dept. of Psychology)
- Duygu Özbağcı - Sensorimotor interaction and time perception: An empirical study and a philosophical discussion (2018)
Supervisor: İnci Ayhan
Co-supervisor: Lucas Thorpe (Bogazici Uni., Dept. of Philosophy)
- Doğa Gülhan - A psychophysical investigation and a philosophical discussion on event-time perception (2017)
Supervisor: İnci Ayhan
Co-supervisor: Lucas Thorpe (Bogazici Uni., Dept. of Philosophy)
- Berhan Şenyazar - The role of attention on scene recognition (2017)
Supervisor: İnci Ayhan
Co-supervisor: Albert Ali Salah (Bogazici Uni., Dept. of Computer Engineering)

Further Training and A Selection of Courses

Brain Anatomy on Human Post-Mortem Tissue (Royal Holloway, University of London, 2012), Statistical Parametric Mapping (SPM) Course (Wellcome Department, UCL, London, 2010), Computer Programming (MATLAB) Course for Graduate Students (Cognitive, Perceptual and Brain Sciences, UCL, London, 2007), Statistics for Graduate Researchers (Cognitive, Perceptual and Brain Sciences, UCL, London, 2007), Research Methods for Neurosciences (Cognitive, Perceptual and Brain Sciences, UCL, London, 2007), Workshop on Paradigms for the Behavioral Research in Neurosciences (V. National Neurosciences Congress, Turkey, 2006).

Reviewer Activity

PLOS One

Journal of Vision / ARVO (2 of them received the ranking of "Exceptionally Good Review") Vision

Research – Elsevier Perception

Frontiers in Perception Science

Investigative Ophthalmology and Visual Science (IOVS)

Current Research in Behavioral Sciences

Selected Public Engagements

Bogazici University "Açık Ders" Series – "Zaman Algısı"	2017 & 2018
Sarıyer & Beşiktaş Municipalities	
Açık Radyo – "Açık Bilinç" Radio Program - "Zaman Algısı"	2017
Hosted by Güven Güzeldere ve Ömer Madra	
EYS Gece Modu 23.Bölüm – "Zaman"	2019
Hosted by Eser Yenenler	
1. Cerrahpaşa Nörobilim Günleri - "Görsel Algı ve Beyin"	2019
Hosted by Cerrahpaşa Nörobilim Student Club	

Updated on December 16th, 2020