

INCI AYHAN, PhD
Assistant Professor, Department of Psychology, Bogazici University
Bebek, Istanbul 34342 - Turkey
E-mail: inci.ayhan@boun.edu.tr
Telephone: 0212 359 7051

Education

Ph. D
Sept 2007 – Nov 2010

University College London (UCL), London, UK
Dept. 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)

B. S.
Sept 2002 – June 2007

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

Awards, Scholarships & Grants

- 1.) Bogazici University BAP Start-Up Grant No: 9248
A Psychophysical Investigation of Time Perception Jan 2014 – Jan 2017
38500 \$
- 2.) ESRC Post-Doctoral Fellowship, UK
An fMRI Investigation of Visual Time Perception Jan 2011 – Jan 2012
Mentor: Prof Marty Sereno
- 3.) The Leverhulme Trust, UK
PhD Scholarship (maintenance and fees on EU rate) 2007 - 2010
- 4.) NTT Communication Science Laboratories, Japan
PhD Scholarship (partial overseas fees) 2007 - 2010
- 5.) UCL Graduate School Conference Fund, UK
May 2008 – May 2009
- 6.) TÜBİTAK, Turkey
The Scientific and Technological Research Council of Turkey
Scholarship (PhD Abroad) - declined 2007 - 2010
- 7.) TÜBİTAK, Turkey
The Scientific and Technological Research Council of Turkey
Scholarship (Graduate Studies in Turkey) - declined 2007 - 2009

Past Work Experience

- Postdoctoral Research Associate**, Dept of Psychology Feb 2012 – Dec 2012
Royal Holloway University, London / UK
- Postdoctoral Research Fellow** Feb 2011 – Feb 2012
Dept of Cognitive, Perceptual and Brain Sciences
University College London, London / UK
- Research Assistant** Oct 2011 – Jan 2011
Dept of Cognitive, Perceptual and Brain Sciences
University College London, London / UK
- Undergraduate Seminar Group Tutor** 2010
Dept of Cognitive, Perceptual and Brain Sciences
University College London, London / UK
- Undergraduate Laboratory Demonstrator** 2009 - 2010
Dept of Cognitive, Perceptual and Brain Sciences
University College London, London / UK
- Freelance Columnist**, Science and Technique Magazine 2005 - 2009
TÜBİTAK, Turkey

<http://www.biltek.tubitak.gov.tr/gelisim/psikoloji/index.htm>

Professional and Outreach Activities

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| Participant Researcher , Brighton Science Festival Brighton, UK | March 2009 |
| Past Work Experience Lab Visitor , The laboratory of Prof Semir Zeki Department of Anatomy, University College London (UCL), UK | Jan 2007 |
| Tutor , Summer Science Camp (Original Name: TÜBİTAK Yaz Bilim Kampı) The Scientific and Technological Research Council, TR | 2006 - 2007 |
| Member of the Founder Executive Council Young Authors Society, METU Student Club, Ankara / TR | 2005 - 2007 |
| Summer Intern , Psychiatry Department Ankara University Hospital, Ankara / TR | 2005 |
| Head of the Executive Council , Psychology Club METU Student Club, Ankara / TR | 2002 - 2005 |
| Summer Intern , Special Education Centre Izmir AKEM Special Education Center, Izmir / TR | 2003 |
| Representative , AEGEE Ankara KayaFest Turkish – Greek Civil Dialogue Turkish Psychological Association – İzmir / TR | 2003 |
| Responsible of Publication Student Branch of Turkish Psychological Association Turkish Psychological Association – Ankara / TR | 2002 - 2003 |

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 Psychtoolbox (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.) 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](https://doi.org/10.1167/15.6.2).
- 2.) **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
- 3.) 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](https://doi.org/10.3389/fpsyg.2012.00090)
- 4.) Bruno, A., **Ayhan, I.**, & Johnston, A. (2011). Duration expansion at low luminance levels. *Journal of Vision*, 11(14):13, 1-13. <http://www.journalofvision.org/content/11/14/13.full.pdf+html>.
- 5.) **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, <http://www.journalofvision.org/content/11/7/22.full.pdf+html>, doi: 10.1167/11.7.22.
- 6.) 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, <http://www.journalofvision.org/content/10/10/30b>, doi:10.1167/10.10.30b.
- 7.) Bruno, A., **Ayhan, I.**, & Johnston, A. (2010). Retinotopic adaptation-based visual duration compression. *Journal of Vision*, 10(10):30, 1-18, <http://www.journalofvision.org/content/10/10/30>, doi: 10.1167/10.10.30.
- 8.) **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, <http://journalofvision.org/9/11/2/>, doi:10.1167/9.11.2.

PhD Thesis

Ayhan, I. Vision-based mechanisms of time perception. *Unpublished*, University College London.

In Preparation

- 9.) **Ayhan, I.**, Holmes, T., & Zanker, J. Dynamic compensation of image distortions in age-related macular degeneration

Talks and Poster Presentations

Invited & Volunteered Talks

- 1.) "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
- 2.) "Vision-based mechanisms of time perception" (April, 2010)
Computational and Biological Vision Group, Bilkent University, Ankara / Turkey
- 3.) "Time and presentation order effects" (February, 2010 / *invited talk*)
Perception Laboratory, Université Paris Descartes, Paris / France
- 4.) "Vision-based mechanisms of time perception" (November, 2012 / *job talk*)
Depart. Of Psychology, Bogazici University, Istanbul / Turkey
- 5.) "Measuring image distortions in age-related macular degeneration (AMD)" (December, 2012 / *peer-reviewed / first author: Ayhan, I., Doyle, E., & Zanker, J.*) Applied Vision Association (AVA) Meeting, London / UK
- 6.) "Increasing velocity reduces the perceived duration of a visual interval" (December, 2012 / *peer-reviewed / second author: Bruno, A., Ayhan, I., & Johnston, A.*) Applied Vision Association (AVA) Meeting, London / UK

Poster Presentations

- 1.) 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).
- 2.) 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).
- 3.) **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).
- 4.) **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).
- 5.) **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 –BNA- Meeting)
- 6.) Bruno, A., **Ayhan, I.**, & Johnston, A. (2012). Slowing down appears to last longer than speeding up. (Presented at 2012 Vision Sciences Society Annual Meeting).
- 7.) **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).
- 8.) Bruno, A., **Ayhan, I.**, & Johnston, A. (2011). Apparent duration expansion at low luminance levels. (Presented at 2011 Vision Sciences Society Annual Meeting).
- 9.) 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).
- 10.) **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).
- 11.) 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).
- 12.) **Ayhan, I.**, Bruno, A., & Johnston, A. (2010). Duration compression at low luminance contrast. [Abstract]. *Perception*, In press. (Presented at 2010 AVA Christmas Meeting).
- 13.) **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).
- 14.) **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)
- 15.) **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).
- 16.) 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).

Further Training & 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

Vision Research – Elsevier

Perception

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

Investigative Ophthalmology and Visual Science (IOVS)