

ARGIRO VATAKIS

http://www.ilsp.gr/homepages/vataki_eng.html

<http://publicationslist.org/argiro.vatakis>

<http://my.indexcopernicus.com/metalargie>

<http://oxford.academia.edu/ArgiroVatakis>

argiro.vatakis@gmail.com

Education:

University of Oxford, Lincoln College, UK, 2004-2007

Doctor of Philosophy (D. Phil.) in Experimental Psychology

Thesis title: *Assessing the factors modulating synchrony perception for complex audiovisual stimuli.*

California State University Long Beach, USA, 2002-03

1st year completed, Masters (M.A.) Degree in Research Psychology

Honors in *Perception (PSY631)* and *Learning (PSY632)*

Overall GPA: 4.0/4.0

California State University Long Beach, USA, 1995-2000

Bachelors (B.A.) in Psychology

Psychology GPA: 3.4/4.0, Overall GPA: 3.2/4.0

Awards & Prizes:

- Graduate Senior Scholarship, Lincoln College, University of Oxford, 2007
- Brain Travel Grant, Brain, 2007
- Graduate Research Fund Award, Lincoln College, University of Oxford, 2007
- Onassis Foundation Science Lecture Series (*'Brain plasticity: From molecules to behavior'*) Award, 2006
- Graduate Symposium Award, International Multisensory Research Forum (IMRF), 2006
- Neuroscience Training (NEUROTRAIN) in Europe Grant, European Commission, Research Directorate General, Marie Curie Conferences & Training Courses, Contract No. MSCF-CT-2005-029703, 2006
- Graduate Senior Scholarship, Lincoln College, University of Oxford, 2006
- European Commission Improving Human Potential Programme Fellowship, NeuralComp, 2006
- Graduate Research Fund Award, Lincoln College, University of Oxford, 2006
- Newton Abraham Studentship, Medical Sciences, University of Oxford, 2005-07

- William R. Miller Postgraduate Award, St. Edmund Hall College, University of Oxford, 2005-06
- St. Hugh's Graduate Award, St. Hugh's College, University of Oxford, 2005-07
- Grindley Grant, British Experimental Psychology Society, 2005
- St. Edmund Hall Travel Award, St. Edmund Hall College, University of Oxford, 2005
- Brockhues Graduate Award, University of Oxford, 2004
- Sally Casanova California State University Pre-Doctoral Scholar Award, 2003-04
- Student Academic Travel Award, CSU Long Beach, 2003
- Psychology Department Travel Award, CSU Long Beach, 2003
- Dean's List, CSU Long Beach, 1998-99
- Student Access to Science Summer Scholarship , CSU Long Beach, 1996

Publications:

Vatakis, A., Ghazanfar, A. A., & Spence, C. (2008). Facilitation of multisensory integration by the “unity effect” reveals that speech is special. *Journal of Vision*, **8**(9):14, 1-11.

Vatakis, A., Portouli, V., & Bekiaris, E. (2008). Investigating the effects of continuous positive airway pressure (CPAP) treatment on driving and attentional performance of patients with sleep impairments. *Proceedings of the 5th International Workshop on Wearable, Micro and Nano Technologies for the Personalised Health, pHealth 2008*.

Vatakis, A., & Spence, C. (2008). Investigating the effects of inversion on configural processing using an audiovisual temporal order judgment task. *Perception*, **37**, 143-160.

Vatakis, A., Navarra, J., Soto-Faraco, S., & Spence, C. (2008). Audiovisual temporal adaptation of speech: Temporal order versus simultaneity judgments. *Experimental Brain Research*, **185**, 521-529.

Vatakis, A., & Spence, C. (2008). Evaluating the influence of the ‘unity assumption’ on the temporal perception of realistic audiovisual stimuli. *Acta Psychologica*, **127**, 12-23.

Vatakis, A., & Spence, C. (2007). How ‘special’ is the human face? Evidence from an audiovisual temporal order judgment task. *Neuroreport*, **18**, 1807-1811.

Vatakis, A., & Spence, C. (2007). Crossmodal binding: Evaluating the ‘unity assumption’ using complex audiovisual stimuli. *Proceedings of the 19th International Congress on Acoustics (ICA)*.

Vatakis, A., & Spence, C. (2007). Crossmodal binding: Evaluating the ‘unity assumption’ using audiovisual speech stimuli. *Perception & Psychophysics*, **69**, 744-756.

Vatakis, A., Navarra, J., Soto-Faraco, S., & Spence, C. (2007). Temporal recalibration during asynchronous audiovisual speech perception. *Experimental Brain Research*, **181**, 173-181.

Vatakis, A., Bayliss, L., Zampini, M., & Spence, C. (2007). The influence of synchronous audiovisual distractors on audiovisual temporal order judgments. *Perception & Psychophysics*, **69**, 298-309.

Vatakis, A., & Spence, C. (2007). Investigating the factors that influence the temporal perception of complex audiovisual events. *Proceedings of the European Cognitive Science 2007 (EuroCogSci07)*, 389-394.

Vatakis, A., & Spence, C. (2006). Temporal order judgments for audiovisual targets embedded in unimodal and bimodal distractor streams. *Neuroscience Letters*, **408**, 5-9.

Vatakis, A., & Spence, C. (2006). Audiovisual synchrony perception for music, speech, and object actions. *Brain Research*, **1111**, 134-142.

Vatakis, A., & Spence, C. (2006). Evaluating the influence of frame rate on the temporal aspects of audiovisual speech perception. *Neuroscience Letters*, **405**, 132-136.

Vatakis, A., & Spence, C. (2006). Audiovisual synchrony perception for speech and music using a temporal order judgment task. *Neuroscience Letters*, **393**, 40-44.

Lyons, G., Sanabria, D., Vatakis, A., & Spence, C. (2006). The modulation of crossmodal integration by unimodal perceptual grouping: A visuo-tactile apparent motion study. *Experimental Brain Research*, **174**, 510-516.

Krekelberg, B., Vatakis, A., & Kourtzi, Z. (2005). Implied motion from form in the human visual cortex. *Journal of Neurophysiology*, **94**, 4373-4386.

Navarra, J., Vatakis, A., Zampini, M., Soto-Faraco, S., Humphreys, W., & Spence, C. (2005). Exposure to asynchronous audiovisual speech increases the temporal window for audiovisual integration of non-speech stimuli. *Cognitive Brain Research*, **25**, 499-507.

Vatakis, A., Krekelberg, B., & Kourtzi, Z. (2004). Processing of global motion from form cues in the human visual cortex. *Society for Neuroscience Abstracts*, Program No. 301.19, 85.

Strybel, T. Z., & Vatakis, A. (2004). A comparison of auditory and visual apparent motion presented individually and with crossmodal moving distractors. *Perception*, **33**, 1033-1048.

Vatakis, A., & Spence, C. (2008, submitted). Assessing the effect of physical differences in the articulation of consonants and vowels on audiovisual temporal perception. *Journal of Speech, Language, and Hearing Research*.

Vatakis, A., & Spence, C. (2008, submitted). Enhanced audiovisual temporal sensitivity when viewing videos that appropriately depict the effect of gravity on object movement. *Experimental Brain Research*.

Vatakis, A. (in preparation). Αισθητηριακή αντίληψη [Sensory perception]. *Νόησις*.

Vatakis, A., & Spence, C. (in preparation). Audiovisual temporal perception. In J. Trommershäuser, M. S. Landy, & K. Körding (Eds.), *Sensory Cue Integration*. London, UK: Oxford, University Press.

Talks & Poster Presentations:

Talks:

Vatakis, A. (2008). Asynchronous audiovisual speech exposure extends the temporal window of multisensory integration. Paper presented at the *2nd Annual Meeting of the Hellenic Society for Neuroscience, October 16-19, Athens, Greece*.

Vatakis A. (2008). Οπτικοακουστική αντίληψη του χρόνου [Audiovisual temporal perception: An overview]. Invited talk at the ‘*A symposium on Time*’, 3rd Biannual meeting “Οι συναντήσεις της Κοζάνης 3” [Kozani’s Meetings 3], September 12-14, Kozani, Greece.

Vatakis, A. (2008). Time perception: A multidisciplinary approach. Invited talk presented at the *POETICON 2nd Technical Meeting, Collaboration Activities, July 7-8, Athens, Greece*.

Vatakis, A. (2008). Investigating temporal perception in infants using complex stimuli. Paper presented at the *13th International Conference of the Association of Psychology and Psychiatry for Adults and Children (A.P.P.A.C.)*, May 20-23, Athens, Greece.

Vatakis, A., & Spence, C. (2007). Investigating the factors that influence the temporal perception of complex audiovisual events. Paper presented at the *2nd European Cognitive Science 2007 Conference (EuroCogSci07)*, May 23-27, Delphi, Greece.

Vatakis, A. (2006). Synchrony perception and temporal recalibration of complex audiovisual stimuli. Invited talk presented on *Oct. 31st at the Department of Biological Psychology and Neuropsychology, University of Hamburg, Research Group-Dr. Brigitte Roeder, Hamburg, Germany*.

Vatakis, A. (2006). Temporal perception of audiovisual speech stimuli. Invited talk presented on *Sept. 13th at the REVES Research Group-Dr. George Drettakis, INRIA Sophia-Antipolis, France*.

Vatakis, A., & Spence, C. (2006). Factors modulating the temporal perception of audiovisual speech stimuli. Paper presented at the *7th Annual Meeting of the International Multisensory Research Forum, June 18-21*, Dublin, Ireland.

Vatakis, A. (2005). Audiovisual synchrony perception for complex stimuli. Paper presented at the *2nd year Graduate Student Presentations, Department of Experimental Psychology, University of Oxford*, Oxford, UK.

Vatakis, A. (2005). Audiovisual synchrony perception for complex stimuli: How 'special' is speech? Invited talk presented on *May 25th at St. Edmund Hall College, University of Oxford*, UK.

Vatakis, A., & Strybel, T.Z. (2003). Auditory and visual apparent motion with crossmodal moving distractors. Paper presented at the *Spring Meeting of the Western Psychological Association*, Vancouver, B.C.

Posters:

Vatakis, A. (2008). Διερεύνηση της αντίληψης του χρόνου σε βρέφη χρησιμοποιώντας σύνθετα οπτικοακουστικά ερεθίσματα. Poster presented at the *1st National Conference of Developmental Psychology in Greece 2008, May 29-June 1*, Athens, Greece.

Vatakis, A., Portouli, V., & Bekiaris, E. (2008). Investigating the effects of continuous positive airway pressure (CPAP) treatment on driving and attentional performance of patients with sleep impairments. Poster presented at the *5th International Workshop on Wearable, Micro and Nano Technologies for the Personalised Health, pHealth 2008, "From Research into Practice"*, May 21-23, Valencia, Spain.

Vatakis, A., & Spence, C. (2007). Crossmodal binding: Evaluating the 'unity assumption' using complex audiovisual stimuli. Poster presented at the *19th International Congress on Acoustics (ICA), September 2-7*, Madrid, Spain.

Vatakis, A. (2007). Examining the possibility of an acquired deficit in audiovisual temporal perception for speech and musical events. Poster presented at the *3rd International Congress on Brain and Behavior and 16th Thessaloniki Conference of the South-East European Society for Neurology and Psychiatry*, Nov. 28-Dec.2, Thessaloniki, Greece.

Vatakis, A., & Spence, C. (2007). An assessment of the effect of physical differences in the articulation of consonants and vowels on audiovisual temporal perception. Poster presented at the *One-day meeting for young speech researchers*, University College London, London, UK.

Vatakis, A., & Spence, C. (2006). The influence of synchronous audiovisual distractors on audiovisual temporal order judgments. Poster presented at the *Annual Autumn School in Cognitive Neuroscience*, Oxford, UK

Vatakis, A., & Spence, C. (2005). Audiovisual synchrony perception for complex stimuli: How 'special' is speech? Poster presented at the 6th Annual Meeting of the International Multisensory Research Forum, Rovereto, Italy.

Navarra, J., Vatakis, A., Zampini, M., Soto-Faraco, S., & Spence, C. (2005). Exposure to asynchronous audiovisual speech extends the temporal window for audiovisual integration. Poster presented at the 6th Annual Meeting of the International Multisensory Research Forum, Rovereto, Italy.

Zvyagintsev, M., Menning, H., Swirszcz, K., Vatakis, A., Kourtzi, Z., & Mathiak, K. (2005). Audio-visual perception of self-induced apparent motion. Poster presented at the 8th Perception Meeting, Tuebingen, Germany.

Strybel, T.Z., & Vatakis, A. (2004). Effect of crossmodal distractors on auditory and visual apparent motion presented in the periphery. Poster presented at the 45th Annual Meeting of the Psychonomic Society, Minneapolis, Minnesota.

Vatakis, A., Krekelberg, B., & Kourtzi, Z. (2004). Processing of global motion from form cues in the human visual cortex. Poster presented at the Annual Meeting of the Society for Neuroscience, San Diego, CA.

Maxfield, L., Juroe, M., Reece, N., Vatakis, A., & Wright, C. (2004). Enhancing prospective memory with enactment and social motivation. Poster presented at the 84th Annual Convention of the Western Psychological Association, Phoenix, AZ.

Vatakis, A., & Strybel, T.Z. (2003). Auditory and visual apparent motion in the presence of moving and nonmoving cross modal distractors. Poster presented at the 44th Annual Meeting of the Psychonomic Society, Vancouver, B.C.

Research Experience:

Institute for Language and Speech Processing (ILSP), Research Centers "Athena", Athens, Greece, 2008-present

Funded by: POETICON, European Commission 7th Framework Programme, Cognitive Systems and Robotics, STREP Project ICT-215843.

Supervisor: Stelios Piperidis, Ph.D./Katerina Pastra, Ph.D.

The POETICON project follows an empirical approach for discovering the "languages" of sensorimotor representations and the correspondences with natural language. Guided by cognitive experiments, it employs cutting-edge equipment and established cognitive protocols for collecting face and body movement measurements, visual object information and associated linguistic descriptions from interacting human subjects, with the objective to create the PRAXICON (an extensible computational resource which associates symbolic representations with corresponding sensorimotor representations).

Hellenic Institute of Transport (HIT), Center for Research and Technology Hellas (CERTH), Athens, Greece, 2007-08

Funded by: Center for Research and Technology Hellas (CERTH)

Supervisor: Aggelos Bekiaris, Ph.D.

Focusing on the study of the relationship of the driver with the vehicle and methods to increase safety while driving. Tasks included working with a driving simulator or real driving experiments. Involved in the European Union funded programs of:

- HUMABIO (Human monitoring and authentication using biodynamic indicators and behavioural analysis)
- ACTIBIO (Unobtrusive authentication using activity related and soft biometrics)
- TRAIN ALL (Integrated system for driver training and assessment using interactive education tools and new training curricula for all modes of road transport)
- DRUID (Driving under the influence of drugs, alcohol and medicines)
- SENSATION (Advanced sensor development for attention, stress, vigilance and sleep/wakefulness monitoring),
- ASK IT (Ambient intelligence system of agents for knowledge based and integrated services for mobility impaired users)
- IN SAFETY (Infrastructure and safety).

Crossmodal Research Laboratory, Department of Experimental Psychology, University of Oxford, UK, 2004-07

Funded by: Newton Abraham Studentship, Medical Sciences.

Lab Supervisor: Prof. Charles Spence, Ph.D.

Focusing on the study of audiovisual temporal perception for complex stimuli using psychophysical and neuroimaging techniques.

Department of Neurology II and Center for Advanced Imaging Medicine, University of Magdeburg, Germany, 2006

Funded by: Visiting Scientist DFG Grant

Lab Supervisor: Toemme Noesselt, Ph.D.

Focusing on the study of auditory, visual, and tactile synchrony perception using psychophysical and fMRI techniques.

Max Planck Research Institute for Biological Cybernetics, Dr. Logothetis Department, Germany, 2004-05

Funded by: Max Planck Society

Lab Supervisor: Zoe Kourtzi, Ph.D.

Focusing on the study of visual perception using Glass Patterns using fMRI and psychophysical methods.

Behavioral Neuroscience Laboratory, Department of Psychology, CSU Long Beach, USA, 2003-04

Lab Supervisor: Diane W. Lee, Ph.D.

Focusing on understanding the processes underlying learning and memory formation, investigating the role of hippocampus in learning, and injury-induced hippocampal neurogenesis.

Boeing Corporation, Phantom Works, Long Beach, USA, 2003-04
Funded by: Boeing Corporation
Lab Supervisor: Jack Dwyer, Ph.D.

Focusing on the development of effective radar systems that function based on the principles of the mechanisms governing the human eye.

Psychoacoustics Laboratory, Department of Psychology, CSU Long Beach, USA, 2002-05

Lab Supervisor: Thomas Z. Strybel, Ph.D.

Investigating unimodal and crossmodal auditory and visual apparent motion perception.

Relevant Work Experience:

Graduate Student Marker for Undergraduate Psychology Admissions, University of Oxford, UK, 2004-07

Graduate Student Intern, Boeing Corp., Phantom Works, Long Beach, USA, 2003-04

Teaching Experience:

Graduate Assistant, *Visual Search Practicum*, University of Oxford, UK, 2004

Graduate Assistant, PSYCH 110, *Introduction to Behavioral Statistics*, Department of Psychology, CSU Long Beach, USA, 2002-04

Tutor (Math & Psychology), Professional Tutors of America, Brea, USA, 2002-03

Laboratory Instructor, PSYCH 310, *Intermediate Statistics*, Department of Psychology, CSU Long Beach, USA, Summer Session 2002

Clinical Setting Experience:

Employment Specialist, CSU Long Beach, Center for Career Studies, USA, 2002-04

Substance Abuse Counselor, Southern California Alcohol & Drug Programs, Downey, USA, 2002

Career Services Specialist, City of Westminster, USA, 2001-02

Summer Youth Counselor, City of Westminster, USA, 2001

Intern-Certified Domestic Violence Counselor, Su Casa Family Crisis & Support Center, Long Beach, USA, 1997-99

Volunteer Student Assistant, Long Beach Community Hospital, Department of Mental Health, USA, 1995-96

Relevant Certifications, Workshops, Coursework, & Exhibitions:

Graduate Skills Course, Medical Sciences Division's Skills Training Programme, University of Oxford, UK, January 2007

Funded by: Medical Sciences Division, University of Oxford

Good practice in citation and the avoidance of plagiarism, Certification course

ECOLIFE Festival, Agora, OAKA Olympic Sports Complex, Athens, Greece, June 2006

The Unique Fair on Environmental Friendly Products & Services, 3-day "Food for thought" Multisensory sensory experience exhibition

Funded by: British Council in Greece

UK GRAD School, Medical Sciences Division's Skills Training Programme, University of Oxford, UK, March 2006

Personal Development for Graduates and Post-docs, 4-day Graduate course

Funded by: Medical Sciences Division, University of Oxford

Interdisciplinary Center for Neural Computation (ICNC), Hebrew University of Jerusalem, Israel, February 2006

Changing your mind about the brain, 2-week Course & Workshop

Funded by: European Union Improving Human Potential Programme

Preparing Future Faculty (PFF) in Psychology Initiative, Association of American Colleges and Universities (AAC&U) & Council of Graduate Schools (CGS), September 2004

Preparing Future Faculty in Psychology, University of New Hampshire, GRAD980 Course

Funded by: American Psychological Association (APA)

Languages:

English – native language; speak fluently and read/write with high proficiency

Greek – native language; speak fluently and read/write with high proficiency

Peer-Reviewing:

Advisory Committee member for the "Archives, The International Journal of Medicine".

Editorial Board Member for the "The International Journal of Medicine – Greek Pages" (Ελληνικές Σελίδες Ιατρικής).

Peer-reviewing journal articles on an *ad-hoc* basis for the following journals:

Proceedings of the Royal Society B: Biological Sciences, *Journal of Cognitive*

Neuroscience, Perception & Psychophysics, Vision Research, Perception, Journal of Speech, Language, and Hearing Research, Experimental Brain Research, Medical Science Monitor, Proceedings of the European Cognitive Sciences 2005-08, Journal of Vision, Brain Research, Journal of Experimental Psychology: Human Perception and Performance, and Cognition, Cerebral Cortex.

Served as *Chair* for the:

- Oral Session: Children's Learning & Perception in the 13th International-2nd World Conference of the Association of Psychology and Psychiatry for Adults and Children (A.P.P.A.C), "Psychology, Neuropsychiatry & Social Work in Modern Times", May 20-23, 2008, Athens, Greece
- Experimental Psychology Session in the 3rd Annual D. Phil. Students Meeting, 22 June 2007, University of Oxford, Medical Sciences Division.

IT & Other Skills/Experiences:

Certified fMRI scanner operator; Driving simulator experience, Eye-tracker systems, & PC/MAC skills.

European Computer Driving License (ECDL) Certification.

Advanced European Computer Driving License (AECDL) Certification - Advanced Presentations

Programming languages: Presentation, Visual Basic, and MATLAB

MS Office-Word, Works, Excel, Visio, Power Point, Front Page, Access, Publisher, and Outlook, BrainVoyager 2000, SPM, SAS, SPSS, MiniTab, 3DS MAX, Graph Pad, EndNote, NeuroLucida, VSearch (Mac), I-Maker (Mac), Adobe- Premier 6.0, Audition, After-Effects and Creative Suite, PRAAT, Transcriber, Anvil 4.7.

Memberships & Activities

- Behavioral and Brain Sciences (BBS) Associate member since 2007
- Women In Cognitive Sciences (WICS), member since 2006
- Cognitive Science Society, member since 2006
- International Speech Communication (ISCA), Student Advisory Committee (SAC), Volunteer member, 2006
- European Brain and Behavior Society (EBBS), member since 2006
- Psychological Society of Northern Greece, member since 2006
- British Neuroscience Association, student member since 2005
- International Brain Research Organization (IBRO), member since 2005

- Greek Society, University of Oxford, member since 2004
- American Psychological Association for Graduate Students, Committee Member since 2003
- American Psychological Science, student member since 2002