

Curriculum Vitae (December 2020)

Personal information

Name: **Sotiris Plainis**
Date of birth: 5 August, 1970
Nationality: Greek
Marital Status: Married, 2 daughters

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Laboratory of Optics and Vision (LOV)
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Present employment

Principal Research Scientist (since June 2002), Laboratory of Optics and Vision (LOV), School of Medicine, University of Crete (UoC). This involves research, teaching and clinical work.

Visiting Research Fellow (since July 2017) Aston University, School of Life and Health Sciences
Teaching / professional activity (current):

- (a) Faculty member and module leader of the postgraduate interdisciplinary program "[Optics & Vision](#)" (2003-2019)
- (b) Faculty member (since 2005) of the interdisciplinary graduate programme in the "[Brain and Mind](#)" Sciences for MSc and PhD degrees
- (c) Educational director of CET course "Ophthalmic Optics, Contact Lenses and Visual Perception: an optometric approach", School of Medicine, University of Crete
- (c) Faculty member of the "Basic Optics" course of the [European Society of Cataract and Refractive Surgery \(ESCRS\)](#) – organized twice per year.
- (d) Lecturer in the [VisSciUM International School, University of Minho, Portugal](#) (2018-2020)
- (e) Principal Member of the organizing committee of [Aegean Summer School in Visual Optics](#)
- (f) Past Member - Educational Committee of the [European Academy of Optometry & Optics](#) (EAOO) and EAOO Research Development working group
- (g) Past Honorary Lecturer (November 2006-2013). The University of Manchester, Optometry.

Clinical activity:

- (a) Providing a regional visual electrodiagnostic service (ERG, EOG, VEP) in UoC + low vision and advanced optometric practices at Optical House.
- (b) International Vision Impairment (VI) Classifier, International Paralympic Committee

Research Activity: An active research group in Visual Psychophysics and Electrophysiology.
Current projects involve:

- (a) Eye movement-based analysis in reading. Effects of optokinetic and cognitive factors. (with MK Tsilimbaris and A. Simos, UoC)
 - (b) Multifocal contact lenses for correcting presbyopia: evaluation of functional vision
 - (c) Visual and strategic performance under conditions of stress/threat (partners: P. Bitsios and A. Simos, Dept of Psychiatry and Behavioral Sciences, UoC)
 - (d) Reanalysis of myopia prevalence values (with WN Charman, The University of Manchester)
 - (e) Ageing effects on pupil and accommodation dynamics (with Dr Adrian Glasser)
 - (f) Optical resolution photoacoustic microscopy of contact lenses (with J. Zacharakis and G. Tserevelakis, ITE, Greece)
 - (g) EMG-based technique for the objective assessment of discomfort glare.
 - (h) Retinal toxicity in animal models using electrophysiology (with: MK Tsilimbaris, UoC)
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Education and training

Postgraduate

PhD in Optometry & Neuroscience

January 1996 - April 1999

Department of Optometry & Vision Sciences, UMIST, UK

Title: "Vision at low lighting levels and its relation to driving"

Supervisors: Dr IJ Murray and Prof WN Charman.

The thrust for this study was towards understanding the effects of low lighting on different aspects of visual performance, using psychophysical techniques. These included the level and the rate of dark adaptation, contrast sensitivity, retinal sensitivity under conditions of foveal cognitive load and reaction times. The main scientific implication was the neurophysiological interpretation of contrast coding in the visual pathways. The applied aspect of this work was the use of Reaction Times as an index of conspicuity under low lighting conditions.

MSc in Optometry & Vision Sciences

September 1994 - November 1995

Department of Optometry & Vision Sciences, UMIST, UK.

Title: "Determination of the optical power of single vision and toric soft contact lenses"

Supervisor: Prof WN Charman.

This principally involved determination of the optical power of soft contact lenses, using in-vitro (focimeter-air, focimeter wet-cell and Twyman-Green interferometry) and in-vivo (high-illumination keratometry and Eye-Sys videokeratoscopy) techniques.

Diploma in Clinical Optometry

September 1993 - June 1994

Department of Optometry & Vision Sciences, UMIST, UK.

(completed one-year of Honours Optometry undergraduate course, Grade II(i)),

Diploma in Optics (7.8, first),

September 1989 – June 1993

Department of Optics, School of Health Sciences, TEI Athens, Greece.

Final year research project: "Evaluation of the optical performance of photochromic lenses"

Supervisor: Dr. A. Aravantinos.

Research experience

July 2002 - today: Research Fellow in the Laboratory of Optics and Vision, School of Medicine, University of Crete, where I lead an active research group in Visual Psychophysics and Electrophysiology. I have been leading numerous research projects (see below in "research grants"), with the emphasis in recent years being the implementation of a new method of evaluating reading performance, based on eye-movement analysis.

February '99 – September 2000: Research Associate (Grade IA) at UMIST. LINK Project (The Department of Transport, Urbis Lighting), *Title:* "A new method of measuring glare under night driving conditions". This involved the development of an objective measure of discomfort glare using a purpose-built device (the Ocular Stress Monitor) that can assess the electrical activity generated by the muscles surrounding the eye. Electromyographic and electroretinographic techniques were applied.

January '96 - January '99: Research Assistant at UMIST. LINK Project (The Department of Transport/EPSC, Urbis Lighting), *Title:* "Night myopia and road traffic accidents". In this study, the implication of low lighting on the refractive status of the eye (ie night myopia) and its adaptation levels were investigated. The findings of this work explain why drivers are more likely to make false perceptual judgements at night, when visual performance is degraded, than during daytime.

September 2018 – today: Co-owner of the company «contact-lenses.gr» in Heraklion, Crete, distributor of Menicon, SEED and Sensimed products in Greece

February 2007 - today: Co-owner and head clinical optometrist of the optometric practice «Optical House» in Heraklion, Crete.

September '92 - May '93: Dispensing/Contact lens fitting, "Saratsopoulou Opticians", Athens, GR.

NOTE: Absent from academic/research activity October 2000 - May 2002 due to military service.

Teaching experience

- **2003 - today:** Faculty member and module leader of the postgraduate interdisciplinary program "[Optics & Vision](#)". Main supervisor of 3 PhD and 33 MSc thesis.
 - **2004 - today:** Faculty member (since 2005) of the interdisciplinary graduate programme in the "[Brain and Mind](#)" Sciences for MSc and PhD degrees
 - **2021- :** Educational director of Continuing Education Training course "Ophthalmic Optics, Contact Lenses and Visual Perception: an optometric approach", School of Medicine, University of Crete.
 - **2018-2020:** Lecturer in the [VisSciUM International School, University of Minho, Portugal](#)
 - **2017-2020:** Lecturer and thesis supervisor in the MSc «Investigative Techniques in Optometry» of University of West Attica.
 - **2015-2016:** Module leader of the Continuing Education Training course in «Diagnostic and therapeutic approaches in 21st century – new techniques in Ophthalmology», School of Medicine, University of Crete.
 - **2010-2011:** Module leader and Lecturer in the undergraduate course of Medicine «Ophthalmology» and «Clinical cases in Ophthalmology» (University of Crete).
 - **2005-2020** Faculty member of the "Basic Optics" course of the [European Society of Cataract and Refractive Surgery \(ESCRS\)](#).
 - **2003-2018** Principal Member of the organizing committee of [Aegean Summer School in Visual Optics](#)
 - **2002-2008:** Faculty member of the MSc joint course "Investigative Ophthalmology and Vision Sciences", Schools of Life and Health Sciences, The University of Manchester, Optometry.
 - **1995-2000** Occasional lecturer (1995-2000) of laboratory classes of the "Optometry & Vision Sciences" undergraduate course (UMIST, UK) in "Physiological & Geometrical Optics", "Dispensing of ophthalmic lenses", "Perception and Psychophysics".
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Publications – refereed journal papers [h-index 22, citations 1234 (Scopus)]

Resume: 173rd in the global optometrist top 200 research ranking, according to the publication from "*Efron N, Morgan PB, Jones LW, Morgan GA & Nichols JJ (2021) Global optometrist top 200 research ranking, Clinical and Experimental Optometry, DOI: 10.1080/08164622.2021.1878863*" and (www.optomrankings.com). 13 countries are only represented in the list.

61. Working group member - Additional measures of visual function beyond acuity, CHV Vision Academy (in preparation)
60. Working group member - Contact Lens Evidence-based Academic Reports (CLEAR) on Contact Lens Optics, BCLA, CLAE (in press).
59. Gleni A, Ktistakis E, Tsilimbaris MK, Simos P, Trauzettel-Klosinski S, **Plainis S** (2019). Assessing Variability in Reading Performance with the New Greek Standardized Reading Speed Texts (IReST). *Optometry & Vision Sciences* Oct;96(10):761-767.
58. Bontzos G, **Plainis S**, Papadaki E, Giannakopoulou T, Detorakis E (2018) Mechanical optic neuropathy in high myopia. *Clinical and Experimental Optometry* 101(4), pp. 613-5.
57. Tserevelakis GJ, Tsagkaraki M, Tsilimbaris MK, **Plainis S**, and Zacharakis G (2017). "Photoacoustic imaging methodology for the optical characterization of contact lenses," *Opt. Lett.* 42(20), 4111-4114.
56. Nikopoulos K, Farinelli P, (...), **Plainis S**, (...), Rivolta C. (2016) Mutations in CEP78 Cause Cone-Rod Dystrophy and Hearing Loss Associated with Primary-Cilia Defects. *American Journal of Human Genetics* 99(3), pp. 770-776. **[22]**

55. Atchison DA, Blazaki S, Suheimat M, **Plainis S**, Charman WN (2016). Do small-aperture presbyopic corrections influence the visual field? *Ophthalmic & Physiological Optics*, Jan;36:51-9. [19]
54. **Plainis S** and Charman WN (2015). Problems in comparisons of data for the prevalence of myopia and the frequency distribution of ametropia. *Ophthalmic & Physiological Optics*, 35(4):394-404. [8]
53. **Plainis S**, Parry NRA, Sapountzis P, Murray IJ (2015). Orientation and spatial frequency selectivity following adaptation: a Reaction Time study. *Perception*, 44: 301-314. [2]
52. Charman WN, **Plainis S**, Rozema J, Atchison DA (2015). Hypermetropia or hyperopia? Guest Editorial *Ophthalmic & Physiological Optics*, 35(1): 2-7.
51. Papamastorakis G, Panagopoulou S, Tsilimbaris MK, Pallikaris IG, **Plainis S** (2014). Ocular higher order aberrations in a school children population. *J Optometry* Apr-Jun;8(2):93-100. [7]
50. Theodorou A, Skordilis A, **Plainis S** (2013). Adaptive gait changes at the approach phase of long jump in class F13 athletes. *Perception and Motor skills: Exercise & Sports* 117(1): 31-45. [2]
49. **Plainis S**, Petratos D, Giannakopoulou T, Radhakrishnan H, Pallikaris IG, Charman EN (2013). Small-aperture monovision and the Pulfrich experience: absence of neural adaptation effects. *PLoS ONE* 8(10): e75987 [6]
48. **Plainis S**, Atchison DA, Charman WN. (2013). Multifocal contact lens profiles and their interpretation. *Optometry & Vision Science*, 90(10): 1066-1077 [66]
47. Plaka A, Grentzelos MA, Astyrakakis NI, Kymionis GD, Pallikaris IG, **Plainis S** (2013). Efficacy of two silicone-hydrogel contact lenses for bandage use after photorefractive keratectomy. *Contact Lens & Anterior Eye*. 36(5): 243-246. [24]
46. Diakonou VF Tsourdou A, Tzatzarakis, MN, Tsika C, Charisis S, Naoumidi I, **Plainis S**, Tsilimbaris MK (2013). Evaluation of Pharmacokinetics and Potential Retinal Toxicity of Intravitreal Lornoxicam (Xefo). *Journal of Ocular Pharmacology and Therapeutics*. 29(7): 627-632 [5]
45. Tsaousis KT, **Plainis S**, Dimitrakos SA, Tsinopoulos IT. (2013). Binocularity enhances visual acuity of patients implanted with multifocal intraocular lenses. *Journal of Refractive Surgery* 29(4): 246-50. [13]
44. Anastasakis A, **Plainis S**, Giannakopoulou T, Papadimitraki E, Fanouriakis C, Tsilimbaris MK (2013). Xerophthalmia and acquired night blindness in a patient with a history of gastrointestinal neoplasia and normal serum vitamin A levels. *Documenta Ophthalmologica*. 126(2): 159-162. [6]
43. **Plainis S** (2013). Comment to "Kerasoft IC compared to Rose-K in the management of corneal ectasias". *Contact Lens & Anterior Eye*. 36(3): 153
42. Tsaousis KT, **Plainis S**, Detorakis ET, Parry NRA, Pallikaris IG, Tsilimbaris MK (2013). Visual electrodiagnosis in Glaucoma screening: a clinical study. *Journal of Glaucoma*. 22(5): 427-31. [8]
41. Giannakopoulou T*, **Plainis S***, Pallikaris IG, Tsilimbaris MK (2013) Contrast sensitivity in the 'good eye' of adult patients with severe impairment in the other eye. *Ophthalmic & Physiological Optics*. 33 (2): 150-156. [3] *equal contributors
40. Poulere E, Moschandreas J, Kontadakis G, Pallikaris IG, **Plainis S** (2013). Effect of blur and subsequent adaptation on visual acuity using letter and Landolt C charts: differences between emmetropes and myopes. *Ophthalmic & Physiological Optics*. 33 (2): 130-137. [23]
39. **Plainis S**, Petratos D, Giannakopoulou T, Radhakrishnan H, Pallikaris IG, Charman WN (2013). Interocular differences in visual latency induced by reduced-aperture monovision. *Ophthalmic and Physiological Optics*. 33 (2): 123-129. [15]
38. **Plainis S**, Kontadakis G, Feloni E, Giannakopoulou T, Pallikaris IG, Tsilimbaris MK, Moschandreas J (2013). Comparison of Acuity Charts in Normals and Diabetic Retinopathy Patients. *Optometry & Vision Science*. 90(2): 174-178 [7]
37. Limnopoulou AN, Bouzoukis ID, Kymionis GD, Panagopoulou S, **Plainis S**, Pallikaris A, Pallikaris, IG (2013). Visual outcomes and safety of a refractive corneal inlay for presbyopia using femtosecond laser. *Journal of Refractive Surgery*.29(1):12-19 [59]
36. **Plainis S**, Moschandreas J, Giannakopoulou T, Vitanova V, Rozema JJ, Tassignon MJ, Tsilimbaris MK, Pallikaris IG (2013). Validation of a modified ETDRS chart for European-wide use in populations that use the Cyrillic, Latin or Greek alphabet. *J Optometry*, 6(1): 18-24. [3]

- 35. Plainis S**, Ntzilepis G, Atchison DA, Charman WN (2013). Through-focus performance with multifocal contact lenses: effect of binocularity, pupil diameter and inherent ocular aberrations. *Ophthalmic and Physiological Optics*. 33(1): 42-50. **[37]**
- 34. Plainis S**, Petratos D, Giannakopoulou T, Radhakrishnan H, Pallikaris IG, Charman WN (2012). Reduced-aperture monovision for presbyopia and the Pulfrich effect. *J Optometry*, 5 156-163. **[9]**
- 33. Plainis S** (2012). Editorial: New technologies and diagnostic tools in Optometry. *J Optometry*, 5: 105-106. **[1]**
- 32.** Karakosta A, Vassilaki M, **Plainis S**, Elfadl NH, Tsilimbaris, Moschandreas J. (2012) Choice of Analytic Approach for Eye-Specific Outcomes: 1 Eye or 2? *American Journal of Ophthalmology* 153(3):571-579. **[56]**
- 31.** Tsika C, Tsilimbaris MK, Makridaki M, Kontadakis G, **Plainis S**, Moschandreas J (2011). Assessment of Macular Pigment Optical Density (MPOD) in patients with unilateral wet Age-related Macular Degeneration (AMD). *Acta Ophthalmologica*, 89(7) 573-578. **[15]**
- 30. Plainis S**, Atchison DA, Charman WN (2011). Commenting on "Using Power Profiles to Evaluate Aspheric Lenses". Letters to the Editor. *Contact Lens Spectrum*, April issue: 15-17.
- 29.** Kontadakis GA, **Plainis S**, Moschandreas J, Tsika C, Pallikaris IG, Tsilimbaris, MK (2011). In vivo evaluation of blue-light attenuation with tinted and untinted intraocular lenses. *Journal of Cataract & Refractive Surgery*, 37(6): 1031-7. **[3]**
- 28. Plainis S**, Petratos D, Giannakopoulou T, Atchison DA, Tsilimbaris MK (2011). Binocular summation improves performance to defocus-induced blur. *Investigative Ophthalmology and Vision Sciences*. 52(5): 2784-89 **[26]**
- 27.** Laretzaki G*, **Plainis S***, Vrettos I, Chrisoulakis A, Pallikaris IG, Bitsios P (2011). Threat and trait anxiety affect stability of gaze fixation. *Biological Psychology*, 86(3): 330-336 **[13]** *equal contributors
- 26.** Laretzaki G*, **Plainis S***, Argyropoulos S, Pallikaris IG, Bitsios P (2010). Threat and anxiety affect visual contrast perception. *Journal of Psychopharmacology*. 24(5): 667-75 **[11]** *equal contributors
- 25.** Grentzelos M, **Plainis S**, Astyrakakis N, Diakonis V, Kymionis G, Kallinikos P, Pallikaris IG. (2009) Evaluating the efficacy of two silicone hydrogel bandage contact lenses following photorefractive keratectomy. *Journal of Cataract & Refractive Surgery*.35:2103-2108 **[37]**
- 24. Plainis S**, Parry NRA, Panorgias A, Sapountzis P, Murray IG (2009). Summation characteristics of the detection of compound gratings. *Vision Research*, 49(16): 2056-66 doi:10.1016/j.visres.2009.05.006 **[1]**
- 23. Plainis S**, Moschandreas J, Nikolitsa P, Plevridi E, Giannakopoulou T, Vitanova V, Tzatzala P, Pallikaris IG, Tsilimbaris MK. (2009) Myopia and visual acuity impairment: a comparative study of Greek and Bulgarian school children. *Ophthalmic & Physiological Optics*, 29: 312-320 **[16]**
- 22.** Tsilimbaris MK, Diakonis VF, Naoumidi I, Charisis S, Kritikos I, Chatzithanasis G, Papadaki T, **Plainis S**. (2009) Evaluation of Potential Retinal Toxicity of Adalimumab (Humira). *Graefe's Archive for Clinical and Experimental Ophthalmology*. 247(8): 1119-1125. **[28]**
- 21. Plainis S**, Plevridi E, Pallikaris IJ. (2009) Comparison of the ocular wavefront aberration between pharmacological-induced and stimulus-driven accommodation, *Ophthalmic & Physiological Optics*, 29: 272-280 **[3]**
- 20. Plainis S** and Pallikaris IG (2008). Ocular monochromatic aberration statistics in a large emmetropic population. *Journal of Modern Optics*, 55: 759-772. **[31]**
- 19. Plainis S**, Anastasakis AG, Tsilimbaris MK (2007). The value of Contrast Sensitivity in diagnosing Central Serous Chorioretinopathy. *Clin Exp Optom*, 90:4, 296-298. **[14]**
- 18. Plainis S**, Tzatzala V, Orphanos Y, Tsilimbaris MK (2007). A modified ETDRS visual acuity chart for European-wide use. *Optometry & Vision Science*, 84 (7): 647-53. **[31]**
- 17. Plainis S**, Murray IJ and Carden D (2006) The Dazzle Reflex; Electrophysiological signals from ocular muscles reveal strong binocular summation effects. *Ophthalmic and Physiological Optics*, 26: 318-325. **[10]**

16. **Plainis S**, Murray IJ and Pallikaris IG (2006). Road traffic casualties: understanding the night-time death toll, *Injury Prevention*, 12: 125-128. [92]
15. Aslanides IM, **Plainis S**, Kumar V, Ginis HS (2006). Phacoemulsification and implantation of an accommodating IOL after PRK. *Journal of Refractive Surgery*, 22 (1): 106-108.
14. **Plainis S** and Murray IJ (2005). Magnocellular channel subserves close-to-threshold reaction times. *Perception*. 34(7): 933-940. [20]
13. **Plainis S**, Murray IJ and Charman WN (2005). The role of retinal adaptation in night driving. *Optometry and Vision Science*, 82 (8): 682-8. [34]
12. **Plainis S**, Ginis HS and Pallikaris A (2005). The effect of ocular aberrations on steady-state errors of accommodative response. *Journal of Vision*, 5(5), 466-477, <http://journalofvision.org/5/5/7>. [111]
11. Parry NRA, **Plainis S**, Murray IJ and McKeefry DJ (2004). Effect of foveal tritanopia on reaction times to chromatic stimuli. *Visual Neuroscience*. 21: 237-42. [10]
10. Kymionis GD, Aslanides IM, Panagopoulou, SI, **Plainis S**, Astyrakakis N, Pallikaris IG (2004). Topographically Supported Customized Ablation for the management of decentered Laser in situ Keratomileusis. *American Journal of Ophthalmology*, 137(5): 806-11. [28]
9. Ginis HS, **Plainis S** and Pallikaris A (2004). Variability of wavefront aberration measurements in small pupil sizes using a clinical Shack-Hartmann aberrometer. *BMC Ophthalmology*, 4 (1). [31]
8. Murray IJ and **Plainis S**. (2003). Contrast coding and magno/parvo segregation revealed in reaction time studies. *Vision Research*, 43: 2707-2719. [50]
7. **Plainis S** and Murray, IJ (2002). Reaction times as an index of visual conspicuity when driving at night. *Ophthalmic & Physiological Optics*, 22: 409-415. [59]
6. Murray IJ, **Plainis S**, and Carden D (2002). The ocular stress monitor; a new device for measuring glare. *Lighting Research & Technology*, 34(3): 231-242. [33]
5. **Plainis S**, Murray IJ and Chauhan K. (2001). Raised visual detection thresholds depend on the level of complexity of cognitive foveal loading. *Perception*, 30: 1203-1212. [25]
4. **Plainis S** and Murray IJ (2000). Neurophysiological interpretation of human visual reaction times; effect of contrast, spatial frequency and luminance. *Neuropsychologia*, 38(12): 1555-64. [68]
3. Murray IJ, **Plainis S**, Chauhan K, Charman WN (1998). Road traffic accidents: the impact of lighting. *The Lighting Journal*, 63 (3): 42-46. [6]
2. **Plainis S** and Charman WN (1998). On-eye power characteristics of soft contact lenses Author's response. *Optometry and Vision Science*, 75 (8): 58-59. [5]
1. **Plainis S** and Charman WN (1998). On-eye power characteristics of soft contact lenses, *Optometry & Vision Science*, 75 (1): 44-54. [15]

Publications - conference proceedings / non-refereed journals

- A44. Blavakis E and **Plainis S** (2020) Amblyopia treatment using dichoptic training in a virtual reality set up. *Modern Optics 11 (in press)*. (Greek)
- A43. **Plainis S** (2020) Η «γυμναστική» των ματιών με ασκήσεις για την αντιμετώπιση της μυωπίας και η μέθοδος Bates. *Παρατηρητήριο Ψευδοεπιστήμης* (<https://pseudoscience-observatory.blogspot.com>) (Greek)
- A42. **Plainis S** (2020). Contact lens correction of presbyopia. *Modern Optics* 20, 54-61. (Greek)
- A41. **Plainis S** (2019). Presbyopia theories: what do we know? *Modern Optics* 19, 68-75. (Greek)
- A40. **Plainis S** (2019) Characteristics of lens accommodation. *Modern Optics* 16, 2-8. (Greek)
- A39. Ntzilepis G και **Plainis S** (2018) Presbyopia demographics in Greece. *Modern Optics* 15, 2-8. (Greek)
- A38. **Poulere E**, **Plainis S** (2018) Myopia management methods: the role of optician-optometrist. *Modern Optics* 8. 69-74 (Greek)
- A37. **Plainis et al.** (2017) Photoacoustic imaging of optical characteristics of contact lenses. *Modern Optics* 7. 46-47 (Greek)
- A36. **Plainis S** (2017) Road accidents in low lighting conditions: the role of vision. *Modern Optics*

7. 26-28 (Greek)

- A35. Plainis S** (2017) Evaluation of functional vision: reading performance *Modern Optics* 7. 38-40 (Greek)
- A34. Plainis S** (2017). Keratoconus: diagnosis and treatment. *Modern Optics* 7, 48-51
- A33. Plainis S** (2017). The use of orthokeratology in myopia management. *Modern Optics* 7, 54-59 (Greek)
- A32. Plainis S** (2016). Myopia: prevalence, factors and corrective techniques (Part A). *Modern Optics*. 4:48-51. (Greek)
- A31. Plainis S** (2016). Cosmetic contact lenses: a medical device which is not an accessory. *Modern Optics*. 4: 12-13. (Greek)
- A30. Plainis S** (2015). Colour vision perception *Optics News*, 10: 66-72 (Greek)
- A29. Plainis S** (2015) Refractive surgery: does it restore functional vision for a lifetime; *Modern Optics*, 3: 56-57 (Greek)
- A28. Plainis S** and Feloni E (2015). Protection from the solar radiation: what should we know about sunglasses. *Greek Annals of Ophthalmology* 25(3): 222-229. (Greek)
- A27. Plainis S** and Feloni E (2015). *Modern Optics* 2: 46-56. (Greek)
- A26. Anastasakis A, Plainis S, Tsika X, Tsilimbaris MK** (2015). Inherited retinal disorders. *Greek Annals of Ophthalmology* 25(2) 110-126. (Greek)
- A25 Plainis S, Poulere E, Loukaides O** (2015) Visual problems with «ready-made» reading glasses. *Modern Optics*. July-September, 1: 70-71 (Greek)
- A24. Plainis S** (2015). Visual acuity charts in Greek *Optics News*, 8: 46-49. (Greek)
- A23. Poulere E, Plainis S** (2014). Low vision: Population statistics, low vision aids and the role of the Optician-Optometrist. *Optics News*, April-June. 54-56 (Greek)
- A22. Loukaides O, Poulere E and Plainis S** (2014). Computer vision syndrome, *Optics News*, July-September. 66-68 (Greek)
- A21. Kallinikos P, Plainis S** (2014). Correcting presbyopia with contact lenses. *Optics News*, January-March. 45-51 (Greek)
- A20. Plainis S, Papamastorakis G, Tserevelakis G, Glannakopoulou T, Tsilimbaris MK, Pallikaris IG** (2013) Prevalence and risk factors for myopia in school children. *Greek Annals of Ophthalmology* 23(1) 9-16. (Greek)
- A19. Kallinikos P and Plainis S** (2011). Contact lenses in presbyopia correction. *Greek Annals of Ophthalmology*, 21 (3), 239-250. (Greek)
- A18. Plainis S, Giannakopoulou T, Tsilimbaris MK, Pallikaris, I.G.** (2009). Is Visual Acuity assessed accurately in the clinical practice? *Greek Annals of Ophthalmology*, 2: 133-145 (Greek)
- A17. Plainis S** (2008). The importance of visual psychophysics in evaluating quality of vision, *Ophthalmology News*, September 2008, p2.
- A16. Plainis S, Tsilimbaris MK, Pallikaris, IG** (2007) Neurophysiological characteristics of retina and visual pathways. *Ophthalmologia*, 19: 269-283. (Greek)
- A15. Plainis S, Vrettos I, Pallikaris IG** (2007) Structure and function of the gaze system. *Greek Annals of Ophthalmology*. 17: 45-52 (Greek)
- A14. Plainis S, Tzatzala P, Tsilimbaris MK** (2006). Evaluation of a new set of visual acuity charts that contain letters recognisable by all European citizens. Proceedings of the 8th *Panhellenic conference in Optics and Optometry*, Athens, 82-85. (Greek)
- A13. Plevridi E, Plainis S, Tzatzala P, Tsilimbaris MK** (2006). Statistics of visual acuity and refractive error in Greek school children. Proceedings of the 8th *Panhellenic conference in Optics and Optometry*, Athens, 54-57. (Greek)
- A12. Giannakopoulou T, Plainis S, Pallikaris IG** (2006). Evaluation of contrast sensitivity and higher order aberrations following refractive surgery. Proceedings of the 8th *Panhellenic conference in Optics and Optometry*, Athens, 36-41. (Greek)
- A11. Loukaides, O, Plainis S** (2006). Optical differences between spectacles and contact lenses. Proceedings of the 8th *Panhellenic conference in Optics and Optometry*, Athens, 94-96 (Greek)

- A10. Plainis S**, Pallikaris IG (2006) Colour vision perception. *Greek Annals of Ophthalmology*. 16: 332-340. (Greek)
- A9. Plainis S**, Pallikaris IG (2005). Mechanisms of presbyopia: Are we approaching its reversal with the current surgical techniques? *Ophthalmologia*, 17: 170-178. (Greek)
- A8. Plainis S**, Pallikaris IG (2005). Accommodation function of the human eye: a review. *Greek Annals of Ophthalmology*, 15: 205-218. (Greek)
- A7.** Pallikaris IG, **Plainis S**. Ginis HS, Pallikaris A (2004). Customised Refractive ablations: is this a step for supervision? Anatomical and Physiological limitations, *Ophthalmologia*, 16. (Greek)
- A6. Plainis S** (2002). Pre-cortical visual pathways - a review. Proceedings of the 6th Panhellenic conference in Optics and Optometry, Athens, 79-85. (Greek)
- A5.** Loukaides O and **Plainis S** (2000). Photorefractive surgery: a review of patient-satisfaction studies. Proceedings of the 5th Panhellenic conference in Optics and Optometry, Athens, 100-104.
- A4.** Murray IJ, **Plainis S**, Chauhan K, Charman WN (1998). Road traffic accidents: the impact of lighting. *The Lighting Journal*, 63 (3): 42-46.
- A3. Plainis S** (1997). The role of vision in road traffic accidents. Proceedings of the 4th Panhellenic conference in Optics and Optometry, Athens, 39-50. (Greek)
- A2. Plainis S** (1996). In-vivo contact lens power changes. Proceedings of the 3rd Panhellenic conference in Optics and Optometry, Athens, 5-11. (Greek)
- A1. Plainis S** (1996). Methods for verifying the power of soft contact lenses. *The Optician*, 212 (5567): 42-52.

Publications – Books / Book Chapters

- 11. Presbyopia: origins, effects and treatment. Edited by Pallikaris IG, Plainis S, Charman WN. SLACK Incorporated (Expected June 2012). ISBN 978-1-61711-026-9**
- 10.** Charman WN and **Plainis S** (2012). Physiology and Behavior of the Accommodation System. In *Presbyopia: origins, effects and treatment*, edited by Pallikaris IG, Plainis S, Charman WN. SLACK Incorporated.
- 9.** Kallinikos P, Santodomingo-Rubido J, **Plainis S** (2012). Correction of Presbyopia With Contact Lenses, In *Presbyopia: origins, effects and treatment*, edited by Pallikaris IG, Plainis S, Charman WN. SLACK Incorporated.
- 8. Plainis S** and Wolffsohn J (2012). Presbyopia Correction: Evaluating Success Using Behavioral Methods, In *Presbyopia: origins, effects and treatment*, edited by Pallikaris IG, Plainis S, Charman WN. SLACK Incorporated.
- 7.** Katsanevaki V, Panagopoulou SS, **Plainis S**, Ginis, S and Pallikaris IG (2004). Accommodation dynamics and its implication on customised corrections. Chapter 13 in *Wavefront customised visual correction: The Quest for Super Vision II*, edited by Krueger RR, Applegate RA and MacRae SM, SLACK incorporated, pp 115-120.
- 6.** Panagopoulou S, **Plainis S**, MacRae SM, and Pallikaris IG (2004). Implications of pupil size and accommodation dynamics on customised wavefront-guided refractive surgery. Chapter 14 in *Wavefront customised visual correction: The Quest for Super Vision II*, edited by Krueger RR, Applegate RA and MacRae SM, SLACK incorporated, pp 121-126.
- 5. Plainis S**, Panagopoulou S, Katsanevaki V, Ginis HG and Pallikaris IG (2003). Dynamics of the accommodation system: implications on customised laser ablations. Chapter 20 In *Wavefront analysis, aberrometers and corneal topography*, Edited by Boyd B and Agarwal A, Highlights in Ophthalmology, pp 323-330.
- 4.** Khoury A, Titzé P, Kymionis GD, **Plainis S**, Aslanides IM and Pallikaris IG (2003). Laser ablation and flap repositioning. In *Step by step LASIK surgery*, edited by Vajapyee RB, Sharma N, Melki SA and Sullivan, L. Jaypee Brothers, New Delhi.
- 3. Plainis S**, Murray, IJ, Chauhan K., Charman WN (2002). Reaction times as an index of visual conspicuity at night. In *Vision in Vehicles VIII*. Edited by AG Gale, ID Brown, CM Haslegrave, SP Taylor, Applied Vision Research Centre, Loughborough University,
- 2. Plainis S**, Chauhan K, Murray IJ, Charman, WN (2002). The effect of performing a cognitive task on detection thresholds; eccentricity and task-difficulty effects. In *Vision in Vehicles VIII*. Edited

by AG Gale, ID Brown, CM Haslegrave, SP Taylor, Applied Vision Research Centre, Loughborough University,

1. Plainis S, Chauhan K, Murray IJ, Charman, WN (1999). Retinal adaptation under night-time driving conditions. In *Vision in Vehicles VII*. Edited by AG Gale, ID Brown, CM Haslegrave, SP Taylor, Elsevier Science BV, North-Holland, pp: 61-70.

Publications – peer-reviewed abstracts

62. Plainis S, Ktistakis E, Tsilimbaris MK (2021). Implementing eye movement-based reading performance in presbyopia correction using multifocal contact lenses. 2021 ESCRS online winter meeting.

61. Papachristou A, Lambraki A, Giannakopoulou T, **Plainis S**, Tsilimbaris MK. (2021). Evaluation of the insulation effect of the silicone oil in patients with retinal detachment using visual electrophysiology. 2021 Greek vitro-retinal society annual meeting.

60. Plainis S, Ktistakis E, Tsilimbaris MK (2020). Evaluating eye-fixation based reading performance in presbyopia correction with contact lenses Proceedings of the 12th annual conference of European Academy of Optometry and Optics, Helsinki.

59. Gleni A, Ktistakis M, Agiorgiotakis M, Simos PG, Tsilimbaris MK, **Plainis S**. (2019) The effect of syntactic ambiguity on eye-movements during continuous, silent reading. Psychonomic Society 60th annual meeting, Montreal, Canada, November.

58. Plainis S, Ktistakis E, Tsilimbaris MK. (2019) Evaluating eye-fixation based reading performance in monovision correction. International Society for Contact Lens Research, August, Singapore.

57. Papadatou E, Ganga M, **Plainis S** (2019) Binocular supra-threshold performance with contact lens-induced monovision: a reaction time and visual evoked potential study. CLAE 42(6), S1, E6-7 (<https://doi.org/10.1016/j.clae.2019.10.023>)

56. Plainis S, Ktistakis E, Tsilimbaris MK (2019). Eye fixation based reading performance as a measure of functional vision in presbyopes: effect of monovision. British Contact Lens Association meeting, Manchester.

55. Plainis S, Ktistakis E, Gleni A, Simos P, Tsilimbaris (2019). Implementing reading performance measures in the clinical practice: reading aloud or silent? Proceedings of the 11th annual conference of European Academy of Optometry and Optics, Berlin.

54. Gleni A, Ktistakis E, Tsilimbaris MK, Simos P, Trauzettel-Klosinski S, **Plainis S** (2018). New standardised texts for assessing reading performance in Greek. 10th Mediterretina meeting, 11-14 October, Rethymno.

53. Plainis S, Ktistakis E, Moschandreas J, Tsilimbaris MK (2018). Implementing reading performance in the clinical practice: reading aloud or silent? 10th Mediterretina meeting, 11-14 October, Rethymno.

52. Ktistakis E, Tsilimbaris MK, **Plainis S** (2018). Evaluation of the effectiveness of therapeutic intervention in patients with AMD; reading behaviour and eye movement analysis. 10th Mediterretina meeting, 11-14 October, Rethymno.

51. Baumhauer I, Findl O, **Plainis S**, Hirschall N, Amir-Asgari S, Agiorgiotakis M. (2018) Evaluation of a novel measurement method using an eye tracking device to assess quality of reading in different patient groups. ESCRS winter meeting, 7-9 February, Belgrade

50. Ktistakis E, Tsilimbaris MK. **Plainis S (2018)** Evaluation of the effectiveness of therapeutic intervention in patients with AMD; reading behaviour and eye movement analysis. 13th Greek Vitreoretinal meeting.

50. Poulere E, Loukaides O, **Plainis S** (2017) Challenging patient management after refractive surgery. Proceedings of the 9th annual conference of European Academy of Optometry and Optics, Barcelona.

49. Ktistakis E, Simos P, Tsilimbaris MK, **Plainis S** (2017) Evaluating reading performance using eye-movement analysis: clinical cases of AMD and amblyopia. 12th Greek Vitreoretinal meeting.

48. Rozema JJ & **Plainis S** Estimating ocular refraction based on biometry (2016), Proceedings of the 8th European meeting on Visual and Physiological Optics. Antwerp

47. **Plainis S**, Ganga M, Papadatou E, Laretzaki J, Pallikaris IG, Parry NRA (2016). Effects of monocular blur (monovision) on binocular supra-threshold performance. Proceedings of the 8th annual conference of European Academy of Optometry and Optics, Berlin.
46. Ktistakis E, Pratt M, Vrettos IG, Tsilimbaris MK, Simos P, **Plainis S** (2016) Effects of emotional arousal on eye movement-based reading performance. 11th Greek Vitreoretinal meeting, Athens.
45. **Plainis S**, Ganga M, Papadatou E, Laretzaki J, Parry NRA (2016). Effects of monocular blur (monovision) on binocular supra-threshold performance. 20th ESCRS winter meeting, Athens.
44. **Plainis S**, Ktistakis E, Vrettos I, Tsilimbaris MK, Pallikaris IG (2015) Eye fixations in reading: effects of luminance, contrast and print size. Proceedings of the 7th annual conference of European Academy of Optometry and Optics, p69.
43. Poulere E, **Plainis S** (2014). Fitting GP contact lenses after CXL treatment for keratoconus. Proceedings of the 6th annual conference of European Academy of Optometry and Optics.
42. **Plainis S**, Charman WN (2014). Refractive error development and emmetropization: recent theories and hypotheses. Proceedings of the 6th annual conference of European Academy of Optometry and Optics.
41. **Plainis S**, Atchison DA, Charman WN (2013). Multifocal contact lenses: Power profiles and their interpretation. *Contact Lens & Anterior Eye*. 36:e34, <http://dx.doi.org/10.1016/j.clae.2013.08.117>
40. **Plainis S**, Mitropoulou M, Anastasakis A, Tsilimbaris MK, Pallikaris IG, Colenbrander A (2012). Effect of blur on reading performance: monocular vs. binocular vision. Proceedings of the 4th annual conference of European Academy of Optometry and Optics.
39. **Plainis S**, Petratos D, Radhakrishnan H, Pallikaris IG, Charman WN (2012). A simulation study of Interocular Differences in Visual Latency Induced by Reduced-Aperture Corneal Inlays or Contact Lenses for Presbyopia. *Contact Lens & Anterior Eye*. 35(S1): e4, <http://dx.doi.org/10.1016/j.clae.2012.08.014>,
38. **Plainis S**, Plaka A, Astyrakakis N, Grentzelos M, Kymionis G, Pallikaris IG (2012). Efficacy of two silicone-hydrogel contact lenses for bandage use after photorefractive keratectomy. *Contact Lens & Anterior Eye* 35 (S1): e18-19, <http://dx.doi.org/10.1016/j.clae.2012.08.059>.
37. Anastasakis A, **Plainis S**, Kamakari S, Tsika C, Douka C, Tsilimbaris MK (2011). Electrophysiologic findings in Greek patients with Stargardt disease. *Acta Ophthalmologica* 89, s248, doi: 10.1111/j.1755-3768.2011.271.x
36. Tsilimbaris MK, **Plainis S**, Tontos C, Kontadakis G, Pallikaris IG (2011). Normative Distance, Intermediate And Near Visual Acuity In Simulated Presbyopia. *Invest. Ophthalmol. Vis. Sci.* 2011 52: ARVO E-Abstract 2833.
35. Pertsinakis M, **Plainis S**, Limnopoulou A, Giannakopoulou T, Iliaki O, Tsilimbaris MK, Pallikaris IG, Jackson AWR, Platt AWG (2010). Evaluating the effect of cataractous vision on the general characteristics of handwriting: its forensic implications. *Acta Ophthalmologica* 88, s246, doi: 10.1111/j.1755-3768.2010.495.x
34. **Plainis S**, Bartels A, Parry NRA and Pallikaris A (2010). A behavioural method for evaluating depth of focus. *Acta Ophthalmologica* 88, s246, doi: 10.1111/j.1755-3768.2010.492.x
33. **Plainis S**, Petratos D, Giannakopoulou T, Atchison DA, and Tsilimbaris MK (2010). Binocularity improves performance to defocus-Induced blur. *Invest. Ophthalmol. Vis. Sci.* 2010 51: ARVO E-Abstract 3936.
32. Tsika C, Tsourdou A, Tzatzarakis M, Charissis SK, Diakonis VF, **Plainis S**, and Tsilimbaris MK (2010). Assessment of the Intravitreal Pharmacokinetics and Potential Retinal Toxicity of the NSAID Lornoxicam. *Invest. Ophthalmol. Vis. Sci.* 2010 51: ARVO E-Abstract 4746.
31. Giannakopoulou T, **Plainis S**, Pallikaris A, Pallikaris IG (2009). The effect of ocular higher order aberrations on contrast sensitivity. *Acta Ophthalmologica*, 87: s244, doi: 10.1111/j.1755-3768.2009.361.x
30. Philippaki E, **Plainis S**, Pallikaris A, Papadiamantis A, Pallikaris IG (2009). Wavefront map analysis of single vision and progressive ophthalmic lenses. *Acta Ophthalmologica*, 87: s244, doi: 10.1111/j.1755-3768.2009.360.x

29. Tsika C, Makridaki M, **Plainis S**, Tsilimbaris MK, Pallikaris IG (2009). Comparison of macular pigment optical density (MPOD) between a northern European and a Mediterranean population. *Acta Ophthalmologica*, 87: s244, doi: 10.1111/j.1755-3768.2009.432.x
28. Laretzaki J, **Plainis S**, Vrettos J, Pallikaris I and Bitsios P (2009). Threat and anxiety affects stability of ocular fixation. *Frontiers in Behavioral Neuroscience*. Conference Abstract: 41st European Brain and Behaviour Society Meeting. doi: 10.3389/conf.neuro.08.2009.09.209
27. Giannakopoulou T, **Plainis S**, Pallikaris A, Pallikaris IG. (2009) Correlating Higher Order Aberrations Following Refractive Surgery With Contrast Sensitivity. *IOVS 2009;50:ARVO E-Abstract 1568*
26. Tsika CI, Kontadakis G, Makridaki M, **Plainis S**, Moschandreas J, Pallikaris IG, Tsilimbaris MK (2009). Assessment of Macular Pigment Optical Density in Patients With Unilateral Wet AMD. *IOVS 2009;50:ARVO E-Abstract 1720*
25. Ginis HS, Sahanidis A, **Plainis S**, Giannakopoulou, T, Pentari I, Pallikaris IG (2009). Forward Light Scatter in Hydrogel and Silicone-Hydrogel Contact Lenses at Different Time Intervals of Use. *IOVS 2009;50:ARVO Abstract 1550*
24. **Plainis S**, Tsilimbaris MK, Moschandrea I, Feloni E, Pallikaris IG (2008). Comparison of logMAR acuity in normals and diabetic retinopathy patients measured with Sloan-letter, illiterate-E and Landolt-C charts. *Optom Vis Sci* 2008; E-abstract 085252
23. Kallinikos P, Astyrakakis N, **Plainis S**, Grentzelos M, Diakonis V, Pallikaris IG (2008). Evaluation of the efficacy of two types of silicone-hydrogel (SiH) bandage contact lenses following PRK. *Optom Vis Sci* 2008; E-abstract 085070
22. Giannakopoulou T, **Plainis S**, Pallikaris IG, Tsilimbaris MK (2008) Evaluation of contrast sensitivity on monocularly-deprived subjects. *Acta Ophthalmologica*, 86: s243, doi: 10.1111/j.1755-3768.2008.5225.x
21. Kontadakis GA, Tsika C, **Plainis S**, Makridaki M, Moschandreas I, Tsilimbaris MK (2008). In vivo assessment of blue light attenuation of the crystalline lens and tinted and not tinted intraocular lenses. *Acta Ophthalmologica*, 86: s243, DOI: 10.1111/j.1755-3768.2008.5445.x
20. Tsika C, Kontadakis GA, Makridaki M, **Plainis S**, Moschandreas J, Tsilimbaris MK (2008). Assessment of macular pigment optical density (MPOD) among patients with wet age-related macular degeneration (AMD) in one eye and the dry form in the fellow eye. *Acta Ophthalmologica*, 86: s243 DOI: 10.1111/j.1755-3768.2008.6412.x
19. Papadiamantis A, Drosos D, **Plainis S**, Pallikaris A. (2008). Evaluating wavefront aberration pattern of single vision lenses. *4th European meeting on Visual and Physiological Optics*.
18. **Plainis S**, Plevridi E, Pallikaris IG. (2008). Comparison of the ocular aberration pattern between pharmacologically- and stimulus-driven accommodation. *4th European meeting on Visual and Physiological Optics*.
17. Giannakopoulou T, **Plainis S**, Nikolitsa P, Tsapaki V, Tzatzala P, Pallikaris IG, Moschandrea J, Tsilimbaris MK. (2008). Evaluation of visual acuity and myopia prevalence in Greek and Bulgarian school children. *IOVS 2008;49:ARVO E-Abstract 3140*
16. Tsika C, Kontadakis GA, **Plainis S**, Makridaki M, Tsilimbaris MK (2008). Blue light absorption of the crystalline lens and tinted and not tinted intraocular lenses. *IOVS 2008;49:ARVO E-Abstract 410*
15. Diakonis VF, Plainis S, Naoumidi I, Panagiotoglou T, Harisis S, Tsika C, Tsilimbaris MK. (2008). Evaluation of Retinal Toxicity After Intravitreal Injection of Efalizumab (Raptiva) in Rabbit Eyes. *IOVS 2008;49:ARVO E-Abstract 4586*
14. Tsoka P, **Plainis S**, Giannakopoulou T, Tsapaki V, Nikolitsa P, Moschandrea J, Tsilimbaris MK. (2008) Validation of a modified ETDRS chart for European-wide use in a population using the Cyrillic alphabet. *IOVS 2008;49:ARVO E-Abstract 3143*
13. Diakonis VF, **Plainis S**, Charisis S, Chatzithanas G, Naoumidi I, Tsilimbaris MK (2007). Testing Intravitreal Retinal Toxicity of Adalimumab (Humira). *IOVS 2007;48:ARVO E-Abstract 2901*
12. Tzatzala V, **Plainis S**, Ginis HS, Tsilimbaris MK (2006). Evaluation of a modified ETDRS visual acuity chart which contains a set of Sloan Roman letters used in all European alphabets. *IOVS 2006;47:ARVO E-Abstract 5360*

11. **Plainis S**, Parry NRA, Sapountzis P, Murray IJ, Pallikaris IG (2006). The effect of contrast adaptation on visual reaction times (RTs): spatial-frequency and orientation tuning. *IOVS 2006;47:ARVO E-Abstract 5353*
10. Ginis HS, Karyotakis, N, **Plainis S**, Pallikaris A. (2006). The Effect of Light Intensity on Angular Resolution of the Human Eye as Determined by a Two-Point Discrimination Task. *IOVS 2006;47:ARVO E-Abstract 1222*
9. Sapountzis P, **Plainis S**, Murray IJ and Pallikaris, IG (2005) Visual Reaction Times to compound gratings. *Perception*, 34, ECVF abstract supplement, pp: 120.
8. Ginis HS, **Plainis S**, Pallikaris A, Aslanides IM, Pallikaris IG (2004). Distribution of critical pupil diameter and depth-of-focus in an emmetropic population. *Optics Letters (EOS meeting)*.
7. **Plainis S**, Ginis HS, Pallikaris A, Pallikaris I. (2004). Implementation of image quality metrics to predict accommodative response. *IOVS 2004;45:ARVO E-Abstract 1734*
6. Aslanides IM, **Plainis S**, Tsatsaronis D, Pallikaris IG (2004). Monochromatic aberration statistics of the human eye in a large emmetropic population. *IOVS 2004;45:ARVO E-Abstract 2763*
5. **Plainis S**, Parry NRA, McKeefry DJ and Murray IJ (2003). Reaction Times (RTs) to chromatic stimuli as a function of eccentricity in the macula region. *IOVS 2003;44:ARVO E-Abstract 1914*
4. Holmes NP, **Plainis S** and Murray, IJ (2000). Reaction Times as a behavioural measure of contrast gain; comparison of low and high luminance levels at different eccentricities. *Perception*, 29, ECVF abstract supplement, pp: 78.
3. **Plainis S** and Murray IJ (2000). Reaction Times (RTs) predict human contrast sensitivity and contrast gain in single unit studies. *IOVS 2000;41:ARVO Abstract 4249*.
2. Murray IJ and **Plainis S** (2000). A general equation for reaction times to contrast, spatial frequency and luminance. *IOVS 2000;41:ARVO Abstract 4252*.
1. **Plainis S**, and Charman WN (1997). On-eye power characteristics of soft contact lenses. *Ophthalmic and Physiological Optics*, 17 (2), pp:69.

Association with peer-reviewed journals / scholarships

- (i) Editorial Board Member in Journal of Optometry, Nature Scientific Reports
- (ii) Reviewer in Journal of Cataract and Refractive Surgery, Nature Scientific Reports
- (iii) Invited reviewer in: The Lancet, Journal of Physiology, Journal of Vision, Vision Research, Ophthalmology, Br J Ophthalmology, OPO, OVS, JRS, JOSA, JCRS, JRS, SJOVS, CLAE.
- (iv) Reviewer of Postgraduate Scholarships of the British College of Optometry (BCO).

Conference presentations

- 25th Winter meeting of ESCRS (Athens, February 2021)
- HSIORS winter symposium (Athens, February 2021)
- 16th Greek Vitreo Retinal Convention, 14-16 January (Athens, January 2021)
- 12th annual conference of European Academy of Optometry and Optics (Elsinki, May 2020)
- 13th meeting of Hellenic Paedo-Ophthalmology and strabismic society (Thessaloniki, November 2019)
- 14th meeting of Panhellenic Academy of Optometry (EAO (Athens, November 2019)
- 20th Symposium of International Society for Contact Lens Research (ISCLR) (Singapore, August 2019)
- XIV Aegean Retina (Mykonos, Greece, June 2019)
- 2019 British Contact Lens Association meeting (Manchester, May 2019)
- 11th annual conference of European Academy of Optometry and Optics (Rome, May 2019)
- 23rd Winter meeting of ESCRS (Athens, February 2019) – **Invited Speaker**
- 10th international Mediteretina meeting (Rethymno, October 2018)
- XXXXI Congress of ESCRS (Vienna, September 2018) – **Invited Speaker**
- 13th Aegean Summer School of Visual Optics (Heraklion, Greece, July 2018) - **Organiser**
- 22nd Winter meeting of European Society of Cataract & Refractive Surgery (ESCRS) (Belgrade, February 2018) – **Invited Speaker**

- XXXX Congress of ESCRS (Lisbon, October 2017) – **Invited Speaker**
- XIII Aegean Retina (Santorini, Greece, July 2017)
- X congresso interdisciplinare, IBZaccagnini Vision Sciences Department - **Invited Speaker**
- XXXIX Congress of European Society of Cataract & Refractive Surgery (ESCRS) (Copenhagen, September 2016) – **Invited Speaker**
- XII Aegean Summer School in Visual Optics (Chania, Greece, June 2016) - **organiser**
- XIII Aegean Cornea (Chania, Greece, June 2016)
- 8th annual conference of European Academy of Optometry and Optics (Berlin, May 2016)
- ‘Expert Reference Group meeting, Sense-Cog, ‘Horizon 2020’ (Athens, April 2016) – **Invited**
- 20th Winter meeting of European Society of Cataract & Refractive Surgery (ESCRS) (Athens, February 2016) – **Invited Speaker**
- 11th Greek Vitreo Retinal Convention, 14-16 January (Athens, January 2016) – **Invited Speaker**
- Visual Impairment (VI) expert meeting (Waterloo, Canada, November 2015) – **Invited Speaker**
- XXXVIII Congress of European Society of Cataract & Refractive Surgery (ESCRS) (Barcelona, September 2015) – **Invited Speaker**
- 7th annual conference of European Academy of Optometry and Optics (Budapest, April 2015)
- OC’s Ageing Eye meeting (Marie curie actions) (Valencia, March 2015) - **Invited Speaker**
- 19th Winter meeting of European Society of Cataract & Refractive Surgery (ESCRS) (Istanbul, February 2015) – **Invited Speaker**
- Visually Impaired (VI) Classification Research Expert Meeting (Amsterdam, January 2015) – **Invited Speaker**
- XXXVII Congress of European Society of Cataract & Refractive Surgery (ESCRS) (London, September 2014) – **Invited Speaker**
- Manchester Royal Eye Hospital (MREH) Bicentenary Conference (Manchester, June 2014) – **Invited Speaker**
- XII Aegean Cornea (Santorini, Greece, June 2014)
- 6th annual conference of European Academy of Optometry and Optics (Warsaw, May 2014)
- 18th Winter meeting of European Society of Cataract & Refractive Surgery (ESCRS) (Ljubljana, February 2014) – **Invited Speaker**
- British Oculo-Motor Group (BOMG) meeting (Manchester, December 2013)
- XXXVI Congress of European Society of Cataract & Refractive Surgery (ESCRS) (Amsterdam, October 2013) – **Invited Speaker**
- 17th Symposium of International Society for Contact Lens Research (ISCLR) (Kyoto, August 2013)
- 37th BCLA Clinical conference and exhibition (Manchester, UK, June 2013).
- 5th annual conference of European Academy of Optometry and Optics (Malaga, April 2013)
- 27th international Congress of the Hellenic Society of Intraocular Implant and Refractive Surgery (Athens, February 2012) – **Invited Speaker**
- 17th Winter meeting of European Society of Cataract & Refractive Surgery (ESCRS) (Warsaw, February 2013) – **Invited Speaker**
- XXXV Congress of European Society of Cataract & Refractive Surgery (ESCRS) (Milan, September 2012) – **Invited Speaker**
- XI Aegean Cornea (Rethymno, Greece, July 2012)
- 11th Aegean Summer School of Visual Optics (Crete, July 2012) - **Organiser**
- 36th BCLA Clinical conference and exhibition (Birmingham, UK, May 2012).
- 4th annual conference of European Academy of Optometry and Optics (Dublin, April 2012)
- 16th Winter meeting of European Society of Cataract & Refractive Surgery (ESCRS) (Prague, February 2012) – **Invited Speaker**
- International Society of Refractive Surgery meeting (Athens, GR, December 2011) - **Invited Speaker**
- 9th Panhellenic conference in Optics and Optometry (Athens, Greece, November 2011)
- 10th Aegean Summer School of Visual Optics (Crete, October 2011) - **Organiser**
- XXXIV Congress of European Society of Cataract & Refractive Surgery (ESCRS) (Vienna, September 2011) – **Invited Speaker**

- 16th Symposium of International Society for Contact Lens Research (ISCLR) (Napa Valley, August 11)
- XI Aegean Retina (Rethymno, Greece, July 2011)
- 3rd annual conference of European Academy of Optometry and Optics (Prague, May 2011)
- 15th Winter meeting of European Society of Cataract & Refractive Surgery (ESCRS) (Istanbul, February 2011) – **Invited Speaker**
- European Association for Vision and Eye Research (EVER) Congress (Crete, October 2011)
- XXXIII Congress of European Society of Cataract & Refractive Surgery (ESCRS) (Paris, September 2010) – **Invited Speaker**
- X Aegean Cornea (Hersonissos, Greece, 9-11 July 2010)
- 9th Aegean Summer School of Visual Optics (Crete, 5-8 July 2010) - **Organiser**
- Association for Research in Vision and Ophthalmology (Ft. Lauderdale, USA, May 2010)- **travel award**
- 14th Winter meeting of European Society of Cataract & Refractive Surgery (ESCRS) (Budapest, February 2010) – **Invited Speaker**
- XXXII Congress of European Society of Cataract & Refractive Surgery (ESCRS) (Barcelona, September 2009) – **Invited Speaker**
- 15th Symposium of International Society of Contact Lens Research (ISCLR) (Crete, August 2009)
- 8th Aegean Summer School of Visual Optics (Heraklion, Greece, July 2009) - **Organiser**
- 13th Winter meeting of European Society of Cataract & Refractive Surgery (ESCRS) (Rome, February 2009) – **Invited Speaker**
- 4th Panhellenic conference on Retina and Vitreous surgery (Athens, January 2009) - **Invited Speaker**
- American Academy of Optometry meeting (Anaheim, US, October, 2008)
- XXXI Congress of European Society of Cataract & Refractive Surgery (ESCRS) (Berlin, September 2008) – **Invited Speaker.**
- 4th European Meeting on Visual & Physiological Optics (Heraklion, August 2008) - **Organiser**
- 7th Aegean Summer School of Visual Optics (Heraklion, Greece, August 2008) - **Organiser**
- 41st Panhellenic congress in Ophthalmology (Thessaloniki, May 2008)
- Association for Research in Vision and Ophthalmology (Ft. Lauderdale, USA, May 2008).
- XXX Congress of European Society of Cataract & Refractive Surgery (ESCRS) (Stockholm, September 2007) – **Invited Speaker.**
- X Aegean Retina (Rhodes, Greece, July 2007).
- 6th Aegean Summer School of Visual Optics (Heraklion, Greece, June 2007) - **Organiser**
- 40th Panhellenic congress in Ophthalmology (Athens, May 2007)
- 11th Winter Refractive Surgery meeting, ESCRS (Athens, February 2007)
- 8th Panhellenic conference in Optics and Optometry (Athens, Greece, December 2006).
- 1st Panhellenic Forum in Sports Science (Athens, 6-8 December 2006)
- XXIX Congress of European Society of Cataract & Refractive Surgery (ESCRS) (London, September 2006) – **Invited Speaker.**
- 3rd European Optical Society (EOS) Meeting on Physiological Optics (London, 5-8 September 2006).
- 5th Aegean Summer School of Visual Optics (Rethymnon, Greece, July 2006) - **Organiser**
- Association for Research in Vision and Ophthalmology (Ft. Lauderdale, USA, April 2006).
- 3rd Greek Conference on Road Safety (University of Patra, October 2005).
- XXIII Congress of European Society of Cataract & Refractive Surgery (ESCRS) (Lisbon, September 2005) – **Invited Speaker.**
- XXVIII European Conference on Visual Perception (La Coruna, Spain, August 2005).
- IX Aegean Retina (Heraklion, Greece, July 2005).
- 4th Aegean Summer School of Visual Optics (Heraklion, Greece, 20 June 2005) - **Organiser**
- 6th International Wavefront Congress (Athens, Greece, February 2005).
- 7th Panhellenic conference in Optics and Optometry (Athens, Greece, November 2004).
- Vision in the twilight zone: studies of visual performance under mesopic conditions (City University, London, November 2004).

- 2nd European Optical Society (EOS) Meeting on Physiological Optics (Granada, Spain, September 2004).
- XXII Congress of European Society of Cataract & Refractive Surgery (ESCRS) (Paris, September 2004) – **Invited Speaker**.
- 3rd Aegean Summer School of Visual Optics (Olympia, Greece, June 2004).
- Association for Research in Vision and Ophthalmology (Ft. Lauderdale, USA, April 2004).
- Limits of Vision (Manchester, UK, September 2003).
- Aegean Retina (Santorini, Greece, July 2003).
- 2nd Aegean Summer School of Visual Optics (Santorini, Greece, July, 2003).
- Association for Research in Vision and Ophthalmology (Ft. Lauderdale, USA, May 2003).
- Visual performance of the human eye (Manchester, UK, September 2002)
- European Conference on Visual Perception (Glasgow, UK, August 2002).
- 6th Panhellenic conference in Optics and Optometry (Athens, Greece, March 2002).
- XXIII European Conference on Visual Perception (Groningen, Netherlands, August 2000).
- Association for Research in Vision and Ophthalmology (Ft. Lauderdale, USA, May 2000).
- 5th Panhellenic conference in Optics and Optometry (Athens, Greece, February 2000).
- 8th International conference in Vision in Vehicles (Boston, USA, August 1999).
- 4th Panhellenic conference in Optics and Optometry (Athens, November 1997).
- 7th International conference in Vision in Vehicles (Marseilles, France, 13-17 September 1997).
- 2nd British Congress of Optometry & Vision Science (Cardiff, UK, 16-18 September 1996).
- 3rd Panhellenic conference in Optics and Optometry (Athens, Greece, 13-15 January 1996).
- BUCCLE conference (Manchester, 18 September 1995).

Research Grants / Funding

May 2020. Erasmus - Staff Mobility for Teaching (Universidade de Minho Braga, Portugal).

November 2019. Alcon Laboratories, Investigator initiated study. "Evaluation of functional vision in presbyopia correction with multifocal contact lenses using eye-fixation measures of reading performance: effects of spherical aberration and adaptation" (**named investigator, main author**). (€48.000)

May 2019. Erasmus - Staff Mobility For Teaching (Aston University, UK)

October 2018. Preclinical development for INNOvative FORmulations of antibiotics for intraocular administration for the treatment/prevention of postoperative endophthalmitis. (ΕΠΑvEK) (**named investigator**) (€290.000)

June 2018. Erasmus - Staff Mobility For Teaching (Braga University)

January 2018. Johnson & Johnson, Investigator award. A new method, based on eye movement analysis when reading, to evaluate functional vision in presbyopia correction (**named investigator, main author**)(\$89.000)

April 2017. AMO, Investigator award. Evaluation of a novel measurement method using an eye tracking device to assess quality of reading in different patient groups, at Vienna Institute for Research in Ocular Surgery (VIROS) (**named investigator, co-author**) (€100.000)

April 2017. University of Crete. Development of IReST reading cards in Greek. (**named investigator, main author**) (€5.138)

July 2016. Novartis, Investigator award. A new method, based on eye movement analysis when reading, to evaluate the effectiveness of therapeutic intervention in VEGF-related maculopathy (**named investigator, main author**)(€60.000)

June 2015. Agitos Foundation Grant Support Programme 2015. "Development of novel testing equipment for visual impairment classification" (**named investigator, co-author**) (€20.000).

February 2013. Erasmus - Lifelong Learning Programme / Staff Training.

June 2011. Marie Curie Initial Training Networks (ITN) grant (**named investigator**). Title of research proposal: "Optical and adaptational limits of vision" (€285.000).

March 2010. ARVO International travel grant / Annual Meeting Program Committee (\$1.100).

December 2009. Erasmus - Lifelong Learning Programme / Staff Training

December 2008. Erasmus - Lifelong Learning Programme / Staff Training

July 2007: Leonardo Da Vinci teaching excellence grant (with IJ Murray, University of Manchester)

February 2006. “Crete Corporate Region 2000-2006” and the “General Secretariat for Research and Technology research grant (**named investigator, main author**). Title of research proposal: “Visual performance, attention and in-vehicle navigation devices ” (€568.000).

March 2005. Crete Innovative Region (CRINNO) research grant (**named investigator, main author**) for the “Development of a method for the evaluation of visual performance when driving at night” (€9.400).

October 2003. Greek State Scholarship Foundation one-year **post-doctoral research grant** for studying “Changes in Retinal Image quality upon accommodation” (€8.000)

July 2003. Greek Secretariat for Research and Technology (GSRT) and the British Council **research grant** for a collaborative project between University of Crete and University of Manchester (**named investigator, co-author**) Research Subject: “Road traffic accidents, object visibility and visual performance at night-time lighting levels”. (€18.500)

August 2002. Greek State funding (Ministry of Culture - €1.200.000) for the construction and development of the National Sports Vision Centre (**named investigator, co-author**).

September 2001. Experimental Psychology Society (EPS) **Undergraduate Project Prize** for Neil Holmes, undergraduate student of Psychology Department (University of Manchester). **Co-supervisor** of his research project titled “Simple visual reaction time to lateralised gratings”.

April 2000. Royal Society (London) travel grant for ARVO, Florida, USA (£500)

Memberships / Fellowships

- International visual impairment (VI) classifier, International Paralympic Committee (IPC)
- Fellow of the British Contact Lens Association (BCLA)
- Member of International Society of Contact Lens Research (ISCLR)
- Association for Research in Vision and Ophthalmology (ARVO)
- European Academy of Optometry and Optics (EAOO)

Other Skills

Languages: Fluent in Greek and English, was fluent in Italian, room for improvement in Spanish.

Sport activities: music, tennis, basketball, ski.

Referees

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