

CURRICULUM VITAE

PERSONAL INFORMATION

First name: **Nikolaos**
Surname: **Karyotakis**
Date of birth: 15 - 07 - 1978
Home address: Ethnikis Antistaseos 148B, Heraklion, GREECE
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EDUCATION

2010- 2016: PhD at Univesity of Crete, Faculty of Medicine, Institute of Vision and Optics,
Thesis: *“Dynamic analysis of intraocular pressure for the investigation of balance flow of aqueous humor in the human eye.”*

2003 – 2005: Master of Science (MSc) in ‘Optics & Vision’ at Univesity of Crete, Faculty of Medicine, Institute of Vision and Optics
Thesis: *“Transscleral photodynamic cyclodestruction: Effect of scleral scattering on the distribution of radiation”*

1998 – 2003: Bachelor of Science (BS) University of Patras, Faculty of Physics
Grade: Very Good

Research Expirience

2010 - present: PhD, development and improvement of invasive and non - invasive optical devices for measuring: intraocular pressure, outflow facility coefficient, blood flow, mechanical properties of the eye.

2008 - present: Lab and clinical experience on optics and optical systems. Scattering and interface of radiation (laser) with the refractive and non - refractive parts of the eye. Animal handling (rabbits). Institute of Vision and Optics – University of Crete

- 2003 – 2005: Postgraduate thesis, run by the department of Medical School of the University of Crete, on the topic ‘Transscleral photodynamic cyclodestruction: Effect of scleral scattering on the distribution of radiation’. Supervisor: Miltiadis Tsilimbaris (Professor of Medicine)
- Additional essay ‘The effect of light intensity on angular resolution of the human eye as determined by a two – point discrimination task’.
 - Graduate thesis, run by the department of Physics of the University of Patra, on the topic: ‘Study of z – scan technique with the computational program GLAD’.

Work Experience

- 2012 – present: Work Associate Alcmæon Co.
- 2012 - 2016: Tele-Ophthalmological Retinal Pathology Screening Service based on an Automated Fundus Camera. Institute of Vision and Optics, Medical School, Alcmæon Co.
- 2008 – present: Research Associate at University of Crete, Faculty of Medicine, Institute of Vision and Optics
- 2005 – 2006: Prefecture of Heraklion at the department of electronic data processing

AWARDS - SCHOLARSHIPS

- 2010-2011: Manasaki scholarship from the University of Crete for outstanding research efforts.
- 2010: EMMI (European Master in Molecular Imaging) Intensive Programme “Molecular Imaging, Industrial Context, State of the Art, Multimodal Imaging”
- 2003-2005: Scholarship from the Masters program Optics & Vision.

Publications - Presentations

- 1 **Karyotakis NG**, Ginis HS, Dastiridou AI, Tsilimbaris MK, Pallikaris IG.:
Manometric measurement of the outflow facility in the living human eye and its
dependence on intraocular pressure. Acta Ophthalmol. 2015 Feb 1. Doi:
10.1111/aos.12652. [Epub ahead of print]
-
- 2 Panagiotoglou T, Tsilimbaris M, Ginis H, **Karyotakis N**, Georgiou V,
Koutentakis P, Pallikaris I.: Ocular rigidity and outflow facility in nonproliferative
diabetic retinopathy. J Diabetes Res. 2015;2015:141598. doi:
10.1155/2015/141598. Epub 2015 Apr 14.
-
- 3 Detorakis ET, Loggaki K, **Karyotakis N**, Ginis H.: Intra-scleral parathalamus
implant: efficacy and safety in rabbit eyes.: Acta Medica (Hradec Kralove).
2015;57(4):151-6
-
- 4 Detorakis ET, Drakonaki EE, Ginis H, **Karyotakis N**, Pallikaris IG.: Evaluation
of iridociliary and lenticular elasticity using shear-wave elastography in rabbit
eyes.: Acta Medica (Hradec Kralove). 2014;57(1):9-14.
-
- 5 Dastiridou A.I., Tsironi E.E., Tsilimbaris M.K., Ginis H., **Karyotakis N.**, Cholebas
P., Androudi S., Pallikaris I.G.: Ocular rigidity, outflow facility, ocular pulse
amplitude, and pulsatile ocular blood flow in open-angle glaucoma: A
manometric study Length IOVS; 54 (7), 4571-4577, (2013)
-
- 6 Anna I. Dastiridou, Harilaos Ginis, Miltiadis Tsilimbaris, **Nikos Karyotakis**,
Efstathios Detorakis, Charalambos Siganos, Pierros Cholevas, Evangelia E.
Tsironi, And Ioannis G. Pallikaris: Ocular Rigidity, Ocular Pulse Amplitude And
Pulsatile Ocular Blood Flow; the effect of Axial Length IOVS; 54 (3), 2087-2092,
(2013)
-
- 7 Kontadakis G.A., Ginis H., **Karyotakis N.**, Pennos A., Pentari I., Kymionis G.D.,
Pallikaris I.G.: In vitro effect of corneal collagen cross-linking on corneal
hydration properties and stiffness Clinical and Experimental Ophthalmology 251
(2), 543-547 (2013)
-
- 8 **Nikos Karyotakis**, Harilaos Ginis, Anna Dastiridou, Chrysoula Douka, Miltiadis
K. Tsilimbaris, Ioannis G. Pallikaris: Minimally invasive elastometry in the living
human eye; ASCRS ID 1539191; was selected as the honorable mention poster
in the Cornea Category
-

Ocular rigidity.

- 9 Ioannis G Pallikaris, Anna I Dastiridou, Miltiadis K Tsilimbaris, **Nikolaos G Karyotakis**, Harilaos S Ginis. Expert Rev. Ophthalmol. 5(3), 343-351 (2010)

Poster

- 10 **N.G. Karyotakis**, H.S. Ginis, A.I. Dastiridou, M.K. Tsilimbaris, I.G. Pallikaris
The relationship of pulsatile ocular blood flow and intraocular pressure in living human eyes
ARVO Meeting Abstracts May 10, 2012 6862/D1192, Ft. Lauderdale, Florida USA. 2012

Poster

- 11 **N.G. Karyotakis**, H.S. Ginis, M.K. Tsilimbaris, E.M Siggelaki, I.G. Pallikaris
A novel device for the measurement of intraocular pressure, ocular rigidity and pulsatile blood flow.
Acta Ophthalmologica, Sept, 2011, Vol.89(s246), p.0(1) [Peer Reviewed Journal] Identifier: ISSN: 1755-375X

Poster

- 12 **N. Karyotakis**, H. Ginis, A. Dastiridou, M. Tsilimbaris, and I. Pallikaris
Temporal characteristics of the Ocular Pulse Amplitude and their dependence on average intraocular pressure. ARVO Meeting Abstracts April 11, 2010 51:6407, Ft. Lauderdale, Florida USA. 2010

Poster

- 13 **N. Karyotakis**, H. Ginis, A. Dastiridou, M. Tsilimparis, and I. Pallikaris
Pressure-dependent Outflow Facility in the Living Human Eye.
PUBLICATION: Invest. Ophthalmol. Vis. Sci. 50: E-Abstract 808. Ft. Lauderdale, Florida USA. 2009

Poster

- 14 **N. Karyotakis**, H. Ginis, A. Dastiridou, A. Limnopoulou, M. Tsilimparis, and I. Pallikaris
On the dependence of Outflow Facility on Intraocular Pressure in the Living Human Eye. EVER, Port Roze Slovenia, 2009

Invited speaker

- 15 **N. Karyotakis**, H. Ginis, M. Tsilimparis, and I. Pallikaris
Optomechanical sensor for the measurement of the mechanical properties of the eye
-

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- 9th Summer School in Vision & Optics Heraklion Crete, 2010
-
- Speaker
- 16 **N. Karyotakis**, H. Ginis, A. Dastiridou, M.Tsilimparis, I. Pallikaris
The Pressure – dependent Outflow facility
42^o Hellenic Ophthalmological Conference Heraklion Crete, 2009
-
- Poster
- 17 Pennos A, **Karyotakis N**, Kontadakis G, Pentari Ig, Pallikaris Ig, Ginis Hs Title:
Acute mechanical effect of riboflavin corneal cross-linking. EVER, Heraklion,
2010
-
- Poster (Best three abstracts submitted to EVER 2009 by young researchers in
the cornea section. Award from TFOS Society)
- 18 Kontadakis G, Ginis HS, **Karyotakis N**, Pennos A, Pentari IG, Kymionis G,
Pallikaris IG
The effect of riboflavin mediated corneal crosslinking on corneal hydration.
EVER, Heraklion, 2010
-
- Poster
- 19 A. Dastiridou, H. Ginis, D. De Brouwere, **N. Karyotakis**, M. Tsilimbaris, and I.
Pallikaris
Axial Length, Ocular Rigidity and Pulsatile Ocular Blood Flow.
ARVO annual meeting
Invest. Ophthalmol. Vis. Sci. 50: E-Abstract 414. Ft. Lauderdale, Florida USA,
2009
-
- Invited speaker
- 20 **N. Karyotakis**
Dynamics of aqueous humor outflow
8th Summer School in Vision & Optics Heraklion Crete, 2009
-
- Invited speaker
- 21 H GINIS, S.PLAINIS, **N. KARYOTAKIS**, A. PALLIKARS
Resolving two point sources of increasing luminous intensity: A cone response - k
of resolution CONGRESS: 3rd European Meeting in Physiological Optics, London
-
- Poster
- 22 H.S. Ginis, N.G. Karyotakis, S. Plainis, and A. Pallikaris.
-

The Effect of Light Intensity on Angular Resolution of the Human Eye as Determined by a Two–Point Discrimination Task.

PUBLICATION: Invest. Ophthalmol. Vis. Sci., May 2006; 47: 1222. Ft. Lauderdale, Florida USA. 2006

Poster

M.K. Tsilimbaris, **N.G. Karyotakis**, I. Attiti, and H.S. Ginis.

23 TITLE: Modelling of 690 nm Laser Light Transmission Through the Sclera.

PUBLICATION: Invest. Ophthalmol. Vis. Sci., May 2005; 46: 277. Ft. Lauderdale, Florida USA. 2005

LANGUAGES

Greek (native)

English (TOEIC Advanced (885 over 995), 1st CERTIFICATE IN ENGLISH, University of Cambridge - British Council, IELTS University of Cambridge – British Council).

Other Activities – Additional Information

Open sea sailing, racing sailing J 24 class, windsurfing

Swimming, football

Fulfilled military service

References submitted after request