

Curriculum Vitae

Alexios N. Liakos

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EDUCATION

Ph.D. in Astrophysics	2012	Department of Astronomy, Astrophysics and Mechanics (AAM), faculty of Physics, National and Kapodistrian University of Athens (NKUA), Greece. Grade: Excellent
M.Sc. in Astrophysics	2008	Department of Astronomy, Astrophysics and Mechanics (AAM), faculty of Physics, National and Kapodistrian University of Athens (NKUA), Greece. Grade: 8.67
Diploma in Physics	2006	Faculty of Physics, National and Kapodistrian University of Athens (NKUA), Greece. Grade: 7.29

EMPLOYMENT

11/2015-Now	Postdoctoral researcher at the Institute for Astronomy, Astrophysics, Space Applications and Remote Sensing (IAASARS) of the National Observatory of Athens (NOA), Greece. <u>Project:</u> NELIOTA (funded by ESA)
1/2014-9/2015	Postdoctoral researcher at IAASARS-NOA, Greece. <u>Project:</u> Aristarchos Wide Field Camera (funded by EU NSRF 2007-2013)
8/2013-10/2013	Support astronomer at the "Aristarchos" telescope (Helmos Observatory) of IAASARS-NOA, Greece.
11/2012-8/2013	Visiting researcher at the Centre of Research and Technology of Hellenic army (military duties).
8/2012-10/2012	Support astronomer at the "Aristarchos" telescope (Helmos Observatory) of IAASARS-NOA, Greece.

RESEARCH FELLOWSHIPS AND TRAVEL GRANTS

2015	ESA for participation in the "Lunar Impact Workshop"
2011-2012	University of Athens, Special Account for research grants 70/4/11112
2011	International Astronomical Union for participation in the IAU Symposium 282
2009	General Secretariat for Research and Technology of Greece for participation in the summer school "Alpbach 2009"

2009-2011	University of Athens, Special Account for research grants 70/3/9709
2007-2008	University of Athens, Special Account for research grants 70/3/8680
2006-2007	University of Athens, Special Account for research grants, 70/3/8374

RESEARCH INTERESTS

- Eclipsing Binaries
- Asteroseismology – Pulsating stars
- Cataclysmic stars
- Novae and extragalactic Novae
- Variable stars in clusters
- Blazars
- Planetary satellites
- Lunar impact flashes
- Spectroscopy and photometry
- Instrumentation
- Software development

SCIENTIFIC PUBLICATIONS

Peer reviewed journals

1. A massive binary black hole system in OJ287 and a test of general relativity
Valtonen, M., et al. (Liakos, A.-co-author), 2008, Nature, 452, 851
2. Period changes in six semi-detached Algol-type binaries
Zasche, P., Liakos, A., Wolf, M., Niarchos, P., 2008, New Astronomy, 13, 405
3. The Algol type eclipsing binaries RW CrB and VZ Leo: New RI photometric study and search for pulsations
Ulaş, B., Niarchos, P., Lampens, P., Liakos, A., 2009, Astrophysics and Space Science, 319, 55
4. Period changes in six contact binaries: WZ And, V803 Aql, DF Hya, PY Lyr, FZ Ori, AH Tau
Zasche, P., Liakos, A., Niarchos, P., Wolf, M., Manimanis, V., Gazeas, K., 2009, New Astronomy, 14, 121
5. Observational detection of eight mutual eclipses and occultations between the satellites of Uranus
Christou, A., et al. (Liakos, A. - co-author), 2009, Astronomy & Astrophysics, 497, 589
6. Observations of candidate oscillating eclipsing binaries and two newly discovered pulsating variables
Liakos, A., Niarchos, P., 2009, Communications in Asteroseismology, 160, 2
7. Tidally induced outbursts in OJ 287 during 2005-2008
Valtonen, M., et al. (Liakos, A. - co-author), 2009, Astrophysical Journal, 698, 781
8. A catalogue of visual double and multiple stars with eclipsing components
Zasche, P., et al. (Liakos, A. - co-author), 2009, Astronomical Journal, 138, 664
9. Variability and stability in blazar jets on time scales of years: Optical polarization monitoring of OJ287 in 2005-2009
Villforth, C., et al. (Liakos, A. - co-author), 2010, Monthly Notices of the Royal Astronomical

Society, 402, 2087

10. Photometric multi-site campaign on the open cluster NGC 884 I. Detection of the variable stars
Saesen, S., et al. (Liakos, A. - co-author), 2010, *Astronomy & Astrophysics*, 515, 16
11. New multicolour CCD photometric analysis of BI CMi
Liakos, A., Niarchos, P., 2011, *Information Bulletin on Variable Stars*, 5967, 1
12. Frequency analysis of five short periodic pulsators
Liakos, A., Niarchos, P., 2011, *Communications in Asteroseismology*, 162, 51
13. A comprehensive study of six Algol type binaries
Liakos, A., Zasche, P., Niarchos, P., 2011, *New Astronomy*, 16, 530
14. Photometry and spectroscopy of GSC 4589-2999
Liakos, A., Bonfini, P., Niarchos, P., Hatzidimitriou, D., 2011, *Astronomische Nachrichten*, 332, 602
15. New pulsation analysis of the oscillating eclipsing binary BG Peg
Liakos, A., Niarchos, P., 2011, *Communications in Asteroseismology*, 162, 73
16. A new insight on the evolutionary status and third body hypothesis of the eclipsing binaries AD And, AL Cam and V338 Her
Liakos, A., Niarchos, P., Budding, E., 2012, *Astronomy & Astrophysics*, 539, 129
17. Survey for δ Sct components in eclipsing binaries and new correlations between pulsation frequency and fundamental stellar characteristics
Liakos, A., Niarchos, P., Soydugan, E., Zasche, P., 2012, *Monthly Notices of the Royal Astronomical Society*, 422, 1250
18. A photometric study of the neglected eclipsing binaries: V405 Cep, V948 Her, KR Mon and UZ Sge
Liakos, A., Niarchos, P., 2012, *New Astronomy*, 17, 634
19. A new photometric and spectroscopic study of the CC Her and CM Lac: Physical parameters and evolutionary status
Liakos, A., Niarchos, P., 2012, *Astrophysics and Space Science*, 340, 281
20. International observational campaigns of the last two eclipses in EE Cephei: 2003 and 2008/9
Gȧfan, C., et al. (Liakos, A. - co-author), 2012, *Astronomy & Astrophysics*, 544, 53
21. The oEA stars QY Aql, BW Del, TZ Dra, BO Her and RR Lep: Photometric analysis, frequency search and evolutionary status
Liakos, A., Niarchos, P., 2013, *Astrophysics and Space Science*, 341, 123
22. Precursor flares in OJ 287
Pihajoki, P., Valtonen, M., Zola, S., Liakos, A. et al., 2013, *Astrophysical Journal*, 764, 5
23. Nature of oscillating semi-detached eclipsing binary system IO Ursae Majoris
Soydugan, F., Soydugan, E., Kanvermez, C., Liakos, A., 2013, *Monthly Notices of the Royal Astronomical Society*, 432, 3278
24. The occultation of HIP 107302 by Jupiter
Christou, A. et al. (Liakos, A. - co-author), 2013, *Astronomy & Astrophysics*, 556, 118
25. Spectroscopic and photometric analysis of three detached binary systems: AP And, VZ Cep and V881 Per
Zola, S., Şenavci, H.V., Liakos, A., Nelson, R.H., Zakrzewski, B., 2014, *Monthly Notices of the Royal Astronomical Society*, 437, 3718

26. First frequency analysis for three new members of the group of eclipsing binaries with a pulsating component
Liakos, A., Cagaš, P., 2014, *Astrophysics and Space Science*, 353, 559
27. The PHEMU09 catalogue and astrometric results of the observations of the mutual occultations and eclipses of the Galilean satellites of Jupiter made in 2009 Arlot, J.-E. et al. (Liakos, A. - co-author), 2014, *Astronomy & Astrophysics*, 572, 120
28. The Absolute Parameters of The Detached Eclipsing Binary V482 Per Basturk, O., Zola, S., Liakos, A., et al., 2015, *New Astronomy*, 41, 42
29. WASP-135b: a highly irradiated hot Jupiter orbiting a G5V star Spake, J. et al. (Liakos, A. - co-author), 2016, *Publications of the Astronomical Society of the Pacific*, 128, 4401
30. Discovery of WASP-113b and WASP-114b, two inflated hot-Jupiters with contrasting densities Barros, S. C. C. et al. (Liakos, A. - co-author), 2016, *Astronomy & Astrophysics*, 593, 113
31. Photometric, Spectroscopic and Orbital Period Variation Study of Three Early Type Semi-detached Systems: XZ Aql, UX Her and AT Peg Zola, S., Basturk, O., Liakos, A., et al., 2016, *Astronomical Journal*, 152, 33
32. Detection of Possible Quasi-periodic Oscillations in the Long-term Optical Light Curve of the BL Lac Object OJ 287 Bhatta, G. et al. (Liakos, A. - co-author), 2016, *Astrophysical Journal*, 832, 47
33. Catalogue and Properties of δ Scuti Stars in Binaries Liakos, A., Niarchos, P., 2016, *Monthly Notices of the Royal Astronomical Society*, 456, 1181
34. Asteroseismology of Kepler Algol-type oscillating eclipsing binaries Liakos, A., 2017, *Astronomy & Astrophysics*, 607, 85
35. Polarization and Spectral Energy Distribution in OJ 287 during the 2016/17 Outbursts Valtonen, M. et al. (Liakos, A. - co-author), 2017, *Galaxies*, 5, 83
36. NELIOTA: First Temperature Measurement of Lunar Impact Flashes Bonanos, A. Z., Avdellidou, C., Liakos, A. et al., *Astronomy & Astrophysics*, accepted

Conference proceedings

1. The beta Lyrae-type eclipsing binary EG Cep: New BVRI photometry and modeling Vamvatira-Nakou, C., Liakos, A., Manimanis, V., Niarchos, P., 2008. *Proc. of the 5th SREAC Meeting, 5-6 October 2007, Athens, Greece*, *Romanian Astronomical Journal Suppl.*, 18, 91
2. The Light-Time Effect in the Algol type eclipsing binary UZ Sagittae Liakos, A., Niarchos, P., 2008, *Proc. of the 5th SREAC Meeting, 5-6 October 2007, Athens, Greece*, *Romanian Astronomical Journal Suppl.*, 18, 67
3. Confirmation of the gravitational wave energy loss in the binary black hole system OJ287 Valtonen, M., et al. (Liakos, A. - co-author), 2007, *Proc. of the AAS/AAPT Meeting, 5-10 January 2007, Seattle, WA*, *Bulletin of the American Astronomical Society*, 39, 942
4. The Light-Time Effect in eclipsing binaries GK Cep and VY Cet Liakos, A., Niarchos, P., 2008, *Proc. of the 1st MEARIM Meeting, 5-10 April 2008, Cairo, Egypt*, 1, 219
5. Seasonal light variations of the system V839 Oph in 2007 Liakos, A., Niarchos, P., Gradoula, G.-P., Hatzidogiannaki, V., 2008, *Proc. of the 1st MEARIM*

- Meeting, 5-10 April 2008, Cairo, Egypt, 1, 155
6. Photometric multi-site campaign on massive B stars in the open cluster χ Persei (NGC 884)
Saesen, S., et al. (Liakos, A. - co-author), 2008, *Proc. of the 2nd HELAS International Conference, 20-24 August 2007, Gottingen, Germany*, Journal of Physics Conference Series, 118, 012071
 7. The Algol-type eclipsing binary TZ Eridani: BV Photometry and search for pulsations and tertiary component
Liakos, A., Ulaş, B., Gazeas, K., Niarchos, P., 2009, *Proc. of the HELAS workshop: Interpretation of Asteroseismic data, 23-27 June 2008, Wrocław, Poland*, Communications in Asteroseismology, 157, 336
 8. Asteroseismology on massive stars in the young open cluster NGC 884: A status report
Saesen, S., et al. (Liakos, A. - co-author), 2009, *Proc. of the 38th Liege International Astrophysical Colloquium, 7-11 June 2008, Liege, Belgium*, Communications in Asteroseismology, 158, 179
 9. RS Ophiuchi (2006): A photometric study for one year after the outburst
Hric, L., et al. (Liakos, A. - co-author), 2009, *Proc. of the conference held on 23-27 June 2007, Keele University, Keele, UK*, Astronomical Society of the Pacific Conference Series, 401, 215
 10. The Algol type eclipsing binary X Tri: BVRI modelling and O–C diagram analysis
Liakos, A., Zasche, P., Niarchos, P., 2010, *Proc. of the conference: Binaries - key to the comprehension of the Universe, 8-12 June 2009, Brno, Czech Rep.*, Astronomical Society of the Pacific Conference Series, 435, 101
 11. DD Mon and XY UMa: CCD Photometry and modelling of two close binary systems with solar type components
Gazeas, K., Liakos, A., Niarchos, P., 2010, *Proc. of the conference: Binaries - key to the comprehension of the Universe, 8-12 June 2009, Brno, Czech Rep.*, Astronomical Society of the Pacific Conference Series, 435, 351
 12. Multi-ring structure of the eclipsing disk in EE Cep - possible planets?
Gałan, C., et al. (Liakos, A. - co-author), 2010, *Proc. of the conference: Binaries - key to the comprehension of the Universe, 8-12 June 2009, Brno, Czech Rep.*, Astronomical Society of the Pacific Conference Series, 435, 423
 13. A CCD photometric study and search for pulsations in EG Cep & RZ Dra
Pazhouhesh, R., Liakos, A., Niarchos, P., 2010, *Proc. of the conference: Binaries - key to the comprehension of the Universe, 8-12 June 2009, Brno, Czech Rep.*, Astronomical Society of the Pacific Conference Series, 435, 279
 14. The contact system V566 Oph revisited
Liakos, A., Varrias, S., Niarchos, P., 2010, *Proc. of the 9th Hellenic Astronomical conference, 20-24 September 2009, Athens, Greece*, Astronomical Society of the Pacific Conference series, 424, 204
 15. Preliminary results for the triple system AV CMI
Liakos, A., Niarchos, P., 2010, *Proc. of the 9th Hellenic Astronomical conference, 20-24 September 2009, Athens, Greece*, Astronomical Society of the Pacific Conference series, 424, 204
 16. Towards ensemble asteroseismology of the young open clusters Chi Persei and NGC 6910
Saesen, S., et al. (Liakos, A. - co-author), 2010, *Proc. of the HELAS IV Conference, 1-5 February 2010, Arecife, Lanzarote*, Astronomische Nachrichten, 331, 1080

17. "Inter-Longitude Astronomy" (ILA) Project: Current highlights and perspectives. I. Magnetic vs. non-magnetic interacting binary stars
Andronov, I., et al. (Liakos, A. - co-author), 2010, *Proc. of the conference: Variable Stars - 2010, 16-21 August 2010, Odessa, Ukraine*, Odessa Astronomical Publications, 23, 8
18. Pro-Am observations of mutual events between the Galilean satellites during the PHEMU09 campaign from Greece
Christou, A.A., Liakos, A., Tsamis, V., et al., 2011, *Proc. of the EPSC-DPS Joint Meeting 2011, 2-7 October 2011, Nantes, France, 2011*, European Planetary Science Congress conference, 332
19. The third body in the eclipsing binary AV CMi: Hot Jupiter or brown dwarf?
Liakos, A., Mislis, D., Niarchos, P., 2012, *Proc. of the IAU Symposium 282: From Interacting binaries to Exoplanets: Essential Modeling Tools, 18-22 July 2011, Tatranská Lomnica, Slovakia*, IAU Symposium, 282, 57
20. Light curve and orbital period analysis of the eclipsing binary AT Peg
Liakos, A., Niarchos, P., Budding, E., 2012, *Proc. of the IAU Symposium 282: From Interacting binaries to Exoplanets: Essential Modeling Tools, 18-22 July 2011, Tatranská Lomnica, Slovakia*, IAU Symposium, 282, 55
21. The contact system DF Hya revisited
Kamenidis, I., Liakos, A., Niarchos, P., 2012, *Proc. of the 10th International Conference of the Hellenic Astronomical Society, 5-8 September 2011, Ioannina, Greece*, HEL.A.S. conference, 28
22. Close binaries with δ Scuti components: New discoveries, analysis techniques and recent results
Liakos, A., Niarchos, P., Gazeas, K., 2012, *Proc. of the 10th International Conference of the Hellenic Astronomical Society, 5-8 September 2011, Ioannina, Greece*, HEL.A.S. conference, 26
23. The 2009 occultation of the bright star 45 Cap by Jupiter
Christou, A.A. et al. (Liakos, A. - co-author), 2012, *Proc. of the European Planetary Science Congress, 23-28 September 2012, Madrid, Spain*, European Planetary Science Congress conference, 378
24. Updated analysis for the system V1464 Aql
Liakos, A., Niarchos, P., 2013, *Proc. of the 11th International Conference of the Hellenic Astronomical Society, 8-12 September 2013, Athens, Greece*, HEL.A.S. conference, 44
25. Asteroseismic Investigation of two Algol-type systems V1241 Tau and GQ Dra
Ulaş, B., Ulusoy, C., Gazeas, K., Erkan, N., Liakos, A., 2014, *Proc. of the IAU Symposium No. 301: Precision Asteroseismology, 19-23 August 2013, Wrocław, Poland*, Cambridge University Press, IAU Symposium, 301, 507
26. Binaries with a δ Scuti component: Results from a long term observational survey, updated catalogue and future prospects
Liakos, A., Niarchos, P., 2015, *Proc. of the international conference: Living Together: Planets, Stellar Binaries and Stars with Planets, 8-12 September 2014, Litomyšl, Czech Republic*, Astronomical Society of the Pacific Conference Series, 496, 195
27. AbsParEB and InPeVEB: Software for the calculation of absolute and orbital period changes parameters of eclipsing binaries
Liakos, A., 2015, *Proc. of the international conference: Living Together: Planets, Stellar Binaries and Stars with Planets, 8-12 September 2014, Litomyšl, Czech Republic*, Astronomical Society of the Pacific Conference Series, 496, 286

28. Poetry in motion: Asteroseismology of δ Scuti stars in binaries using Kepler data
Liakos, A., Niarchos, P., 2015, *Proc. of the 12th International Conference of the Hellenic Astronomical Society, 28 June - 2 July 2015, Thessaloniki, Greece*, in press
29. Aristarchos Wide-Field Camera: A new high-resolution imager for the 2.3m Aristarchos telescope
Boumis, P., Meaburn, J., Konidaris, N., Liakos, A., Dracos, C., 2015, *Proc. of the 12th International Conference of the Hellenic Astronomical Society, 28 June - 2 July 2015, Thessaloniki, Greece*, in press
30. The Manchester-Athens Wide-Field Camera (MAWFC): A new 30deg diameter narrow-band optical camera
Boumis, P., Meaburn, J., Dickinson, C., Nanouris, N., Chiotellis, A., Liakos, A., Font, J., Loizos, V., Galtress, A., Drakos, C., 2015, *Proc. of the 12th International Conference of the Hellenic Astronomical Society, 28 June - 2 July 2015, Thessaloniki, Greece*, in press
31. NELIOTA: ESA's new NEO lunar impact monitoring project with the 1.2m telescope at the National Observatory of Athens
Bonanos, A., Liakos, A., Xilouris, M., Boumis, P., et al., 2016, *Proc. of the SPIE 9911, Modeling, Systems Engineering, and Project Management for Astronomy VI, 26 June - 1 July 2016, Edinbrugh, UK*, 991122 (August 8, 2016); doi:10.1117/12.2232453

International (refereed) bulletins, new discoveries and announcements

1. Reports on new discoveries: GSC 4589-2999
Liakos, A., Niarchos, P., 2007, *Information Bulletin on Variable Stars*, 5900, 2
2. Reports on new discoveries: GSC 2673-1583, GSC 3641-0359
Liakos, A., Niarchos, P., 2008, *Information Bulletin on Variable Stars*, 5900, 10
3. Observations on variables: GSC 3101-0683
Liakos, A., Niarchos, P., 2008, *Information Bulletin on Variable Stars*, 5899, 2
4. Observations on variables: GSC 4833-1209
Liakos, A., Niarchos, P., 2008, *Information Bulletin on Variable Stars*, 5899, 3
5. 148 CCD times of minima of 47 eclipsing binaries
Liakos, A., Niarchos, P., 2009, *Information Bulletin on Variable Stars*, 5897, 1
6. New optical nova candidate in M31
Pietsch, W., et al. (Liakos, A. - co-author), 2009, *The Astronomer's Telegram*, 2105
7. Optical photometry of TT Ari simultaneous with the Suzaku satellite observations: QPOs in the negative superhump State
Andronov, I., Baklanov, A., Liakos, A., Niarchos, P., 2009, *The Astronomer's Telegram*, 2122
8. Constraining the time of outburst of an optical nova candidate in M31
Henze, M., et al. (Liakos, A. - co-author), 2009, *The Astronomer's Telegram*, 2189
9. Reports on new discoveries: GSC 1626-1303
Liakos, A., Niarchos, P., 2009, *Information Bulletin on Variable Stars*, 5998, 1
10. Photometric elements for five newly discovered variable stars
Liakos, A., Niarchos, P., 2010, *Peremennye Zvezdy Prilozhenie*, 10, 9
11. CCD times of minima of several eclipsing binaries
Liakos, A., Niarchos, P., 2010, *Information Bulletin on Variable Stars*, 5943, 1

12. CCD times of minima of eclipsing binaries and maxima of pulsating stars
Liakos, A., Niarchos, P., 2010, Information Bulletin on Variable Stars, 5958, 1
13. Reports on new discoveries: GSC 4559-2536
Liakos, A., Niarchos, P., 2010, Information Bulletin on Variable Stars, 5998, 2
14. Observations on variables: GSC 0199-2035
Liakos, A., Niarchos, P., 2010, Information Bulletin on Variable Stars, 5999, 2
15. Swift UV detection and optical confirmation of a nova candidate in M31
Pietsch, W., et al. (Liakos, A. - co-author), 2010, The Astronomer's Telegram, 2713
16. Apparent Nova in M31: M31N 2010-06c
Liakos, A., Hatzidimitriou, D., Niarchos, P., et al., 2010, Central Bureau Electronic Telegrams, 2347, 1
17. Apparent Nova in M31: M31N 2010-06d
Pietsch, W., et al. (Liakos, A. - co-author), 2010, Central Bureau Electronic Telegrams, 2347, 1
18. Reports on new discoveries: 2MASS J20275736+2453029
Liakos, A., Niarchos, P., 2010, Information Bulletin on Variable Stars, 5998, 3
19. Confirming the time of outburst of an optical nova candidate in M31
Pietsch, W., et al. (Liakos, A. - co-author), 2010, The Astronomer's Telegram, 2896
20. H-alpha detection of seven recent optical novae in M31
Pietsch, W., et al. (Liakos, A. - co-author), 2010, The Astronomer's Telegram, 2964
21. Reports on new discoveries: GSC 3208-2644, GSC 3164-1558, GSC 3164-1517
Liakos, A., Niarchos, P., 2010, Information Bulletin on Variable Stars, 5998, 4
22. Observations on variables: GSC 3208-1986
Liakos, A., Niarchos, P., 2010, Information Bulletin on Variable Stars, 5999, 3
23. Reports on new discoveries: USNO-A2.0 1350-16144088, GSC 0198-2061
Liakos, A., Niarchos, P., 2010, Information Bulletin on Variable Stars, 5998, 6
24. CCD times of minima of eclipsing binaries and maxima of pulsating stars
Liakos, A., Niarchos, P., 2011, Information Bulletin on Variable Stars, 5990, 1
25. Observations on variables: GSC 3802-1986
Liakos, A., Niarchos, P., 2011, Information Bulletin on Variable Stars, 5999, 5
26. Reports on new discoveries: GSC 1270-0926, GSC 4372-0831, USNO-A2.0 1350-16136263
Liakos, A., Niarchos, P., 2011, Information Bulletin on Variable Stars, 5998, 7
27. Discovery of four new variables
Liakos, A., Niarchos, P., 2011, Peremennye Zvezdy Prilozhenie, 11, 2
28. Reports on new discoveries: USNO-A2.0 0975-04721840
Liakos, A., Niarchos, P., 2011, Information Bulletin on Variable Stars, 5998, 8
29. Discovery of three W UMa type eclipsing binaries
Liakos, A., Niarchos, P., 2011, Peremennye Zvezdy Prilozhenie, 11, 26
30. Times of minima of eclipsing binaries and times of maxima of pulsating stars
Liakos, A., Niarchos, P., 2011, Information Bulletin on Variable Stars, 6005, 1
31. Observations on variables: TU UMa
Liakos, A., Niarchos, P., 2011, Information Bulletin on Variable Stars, 6099, 1
32. Reports on new discoveries: GSC 3332-0388, GSC 3987-1298, USNO-A2.0 1275-01165814
Liakos, A., Niarchos, P., 2011, Information Bulletin on Variable Stars, 6100, 2

33. Discovery of Three New W UMa Stars
Liakos, A., Niarchos, P., 2012, *Peremennye Zvezdy Prilozhenie*, 12, 2
34. Very high optical activity of blazar OJ287
Zola, S., et al. (Liakos, A. – co-author), 2012, *The Astronomer's Telegram*, 4057
35. 105 Minima timings of eclipsing binaries
Liakos, A., Gazeas, K., Nanouris, N., 2014, *Information Bulletin on Variable Stars*, 6095, 1
36. Reports on new discoveries: GSC 1025-0798, GSC 4835-1716
Liakos, A. & Niarchos, P., 2014, *Information Bulletin on Variable Stars*, 6100, 19
37. Reports on new discoveries: GSC 0445-0903, GSC 2680-1387, GSC 2816-2000, GSC 3802-1680, GSC 4320-1033, USNO-A2.0 0975-04711370, USNO-A2.0 1050-17346460, USNO-A2.0 1350-04394387
Liakos, A. & Niarchos, P., 2014, *Information Bulletin on Variable Stars*, 6100, 20
38. Observations on variables: GSC 3159-1188
Liakos, A. & Niarchos, P., 2014, *Information Bulletin on Variable Stars*, 6099, 12
39. Reports on new discoveries: USNO-A2.0 1125-16060074, USNO-A2.0 1125-16097188
Liakos, A., Dakanalis, I., Niarchos, P., 2015, *Information Bulletin on Variable Stars*, 6200, 3
40. Reports on new discoveries: NOMAD1 1609-0153378, NOMAD1 1609-0153459
Liakos, A. & Nanouris, N., 2015, *Information Bulletin on Variable Stars*, 6200, 4
41. Predicting the 4th caustic crossing in Gaia16aye binary microlensing event
Mroz, P. et al. (Liakos, A. - co-author), 2016, *The Astronomer's telegram*, 9770
42. Gaia16aye binary microlensing event is rising for the 5th time
Wyrzykowski, L. et al. (Liakos, A. - co-author), 2017, *The Astronomer's telegram*, 10341
43. Reports on new discoveries: 2MASS J22262047+5448251
Liakos, A., *Information Bulletin on Variable Stars*, 6300, 7

ATTENDANCE TO CONFERENCES, WORKSHOPS, SUMMER SCHOOLS, SEMINARS

Conferences

- 7/2017 “13th Hellenic Astronomical Conference” organized by the Hellenic Astronomical Society in Herakleion, Crete, Greece.
- 6-7/2015 “12th Hellenic Astronomical Conference” organized by the Hellenic Astronomical Society in Thessaloniki, Greece.
- 9/2014 “Living Together: Planets, Stellar Binaries and Stars with Planets” organized by the Dept. of Theoretical Physics and Astrophysics of the Masaryk University of Brno, the Astronomical Institute of the Charles University of Prague, the Astronomical Institute of the Academy of Sciences of the Czech Rep. and the Astronomical institute of Slovak Academy of Sciences in Litomyšl, Czech Republic.
- 9/2013 “11th Hellenic Astronomical Conference” organized by the Hellenic Astronomical Society in Athens, Greece.
- 9/2011 “10th Hellenic Astronomical Conference” organized by the Hellenic Astronomical Society in Ioannina, Greece.

- 7/2011 “IAU Symposium 282 - From interacting binaries to exoplanets: Essential modeling tools” organized by the Astronomical institute of Slovak Academy of Sciences in Tatranskà Lomnica, Slovakia.
- 9/2009 “9th Hellenic Astronomical Conference” organized by the Hellenic Astronomical Society in Athens, Greece (Member of the Local Organizing Committee).
- 6/2009 “Binaries – key to the comprehension of the Universe” organized by the Dept. of Theoretical Physics and Astrophysics of the Masaryk University of Brno, the Astronomical Institute of the Charles University of Prague, the Astronomical Institute of the Academy of Sciences of the Czech Rep. and the Astronomical institute of Slovak Academy of Sciences in Brno, Czech Republic.
- 10/2007 “5th SREAC Meeting: Latest progress in Astrophysics”, organized by the faculty of Physics of the NKUA and UNESCO-BRESCE in Athens, Greece.
- 9/2007 “8th Hellenic Astronomical Conference” organized by the Hellenic Astronomical Society in Thassos Is., Greece.
- 6/2007 “Recent achievements of stellar astronomy”, organized by the Astronomical Institute of Slovak Academy of Sciences in Bejovec, Slovakia.

Workshops

- 12/2017 “Workshop on Machine Learning Algorithms”, organized by IAASARS/NOA in NOA, Penteli, Greece
- 6/2015 “Lunar Impact Workshop”, organized by ESA in ESTEC, Noordwijk, The Netherlands.

Summer schools

- 7/2009 “Summer school Alpbach 2009, Exoplanets: Discovering and characterizing Earth type planets”, organized by the FFG, ESA, ISSI and the AUSTROSPACE in Alpbach, Tyrol, Austria.
- 9/2006 “First X-Ray Astronomy School”, organized by the IAASARS/NOA, Penteli, Athens, Greece.

Seminars

- 5/2009 “Symposium for Modern Astronomy”, organized by the faculty of Physics of the NKUA, Zografos, Athens, Greece.
- 5/2008 “Seminar in Physics”, organized by the faculty of Physics of the NKUA, Zografos, Athens, Greece.
- 3/2008 “Infrared Astronomy”, organized by the IAASARS/NOA, Penteli, Athens, Greece.
- 2004-2012
once per
month “Open nights for all”, organized by Prof. P. Niarchos, faculty of Physics, Zografos, Athens, Greece.
- 2004-2012
once per
month “Seminars of Theoretical Astrophysics”, organized by Prof. K. Tsinganos, A. Mastichiadis and N. Vlahakis, faculty of Physics, Zografos, Athens, Greece.

ORAL PRESENTATIONS

- 9/2017 Invited talk entitled “Methods of discovery and characterization of exoplanets” for the “22th Astronomy summer school” organized by the IAASARS/NOA, 4-6 September 2017, Athens, Greece.
- 7/2017 Contributed talk entitled “The new catalogue of delta Sct pulsators in binary systems” in the “13th Hellenic Astronomical conference”, organized by the Hellenic Astronomical Society, 2-6 July 2017, Herakleion, Crete, Greece.
- 7/2017 Contributed talk entitled “First lunar impact flash results from NELIOTA” in the “13th Hellenic Astronomical conference”, organized by the Hellenic Astronomical Society, 2-6 July 2017, Herakleion, Crete, Greece.
- 5/2017 Invited talk entitled “Asteroseismology” in the regular public nights of the public outreach center of Penteli, organized by IAASARS-NOA, Penteli, Athens, Greece.
- 7/2015 Contributed talk entitled “Poetry in motion: Asteroseismology of δ Scuti stars in binaries using Kepler data” in the “12th Hellenic Astronomical conference”, organized by the Hellenic Astronomical Society, 28 June – 2 July 2015, Thessaloniki, Greece.
- 3/2015 Invited talk entitled “Variable Stars” in the amateur astronomers meeting, organized by IAASARS-NOA, Penteli, Athens, Greece.
- 3/2015 Invited talk entitled “Variable Stars” in the regular public nights of the public outreach center of Penteli, organized by IAASARS-NOA, Penteli, Athens, Greece.
- 9/2014 Contributed talk entitled “Binaries with a δ Scuti component: Results from a long term observational survey, updated catalogue and future prospects” in the conference “Living Together: Planets, Stellar Binaries and Stars with Planets”, 8-12 September, Litomyšl, Czech Republic.
- 9/2014 Poster paper entitled “AbsParEB and InPeVEB: Software for the calculation of absolute and orbital period changes parameters of eclipsing binaries” in the conference “Living Together: Planets, Stellar Binaries and Stars with Planets”, 8-12 September, Litomyšl, Czech Republic.
- 5/2014 Contributed talk entitled “Asteroseismology in Binaries” in the “Seminars of Theoretical Astrophysics”, organized by Prof. K. Tsinganos, A. Mastichiadis and N. Vlahakis, faculty of Physics, NKUA, Zografos, Athens, Greece.
- 6/2012 Ph.D. Thesis presentation, faculty of Physics, NKUA, Zografos, Athens, Greece.
- 9/2011 Contributed talk entitled “Close binaries with δ Scuti components: New discoveries, analysis techniques and recent results” in the “10th Hellenic Astronomical conference”, organized by the Hellenic Astronomical Society, 5-8 September 2011, Ioannina, Greece.
- 7/2011 Poster paper entitled “Light curve and orbital period analysis of the eclipsing binary AT Peg” in the conference “From interacting binaries to exoplanets: Essential modeling tools - IAU Symposium 282”, 18-22 July 2011, Tatranskà Lomnica, Slovakia.
- 7/2011 Poster paper entitled “The third body in the eclipsing binary AV CMi: Hot Jupiter or Brown dwarf?” in the conference “From Interacting binaries to Exoplanets: Essential Modeling Tools - IAU Symposium 282”, 18-22 July 2011, Tatranskà Lomnica, Slovakia.
- 12/2010 Invited talk entitled “Variable Stars” in the seminar “Sun and Variable Stars”, organized by the Dept. of AAM, NKUA and the Hellenic Amateur Astronomy

- Association, 16 December 2010, Zografos, Athens, Greece.
- 5/2010 Invited talk entitled “Variable Stars. Their importance to modern Astronomy” in the seminar “Open nights for all”, organized by Prof. P. Niarchos, faculty of Physics, NKUA, Zografos, Athens, Greece.
- 9/2009 Invited talk entitled “Astronomical observations with CCD cameras” for the “14th Astronomy summer school” organized by the IAASARS/NOA and the Dept. of AAM of the NKUA, 1-3 September 2009, Athens, Greece.
- 6/2009 Poster paper entitled “The Algol type eclipsing binary X Tri: BVRI modeling and Θ C analysis” in the conference “Binaries – key to the comprehension of the Universe”, 8-12 June 2009, Brno, Czech Rep.
- 6/2009 Poster paper entitled “DD Mon and XY UMa: CCD photometry and modelling of two close binary systems with solar-type components” in the conference “Binaries – key to the comprehension of the Universe”, 8-12 June 2009, Brno, Czech Rep.
- 12/2008 M.Sc. Thesis presentation, faculty of Physics, NKUA, Zografos, Athens, Greece.
- 10/2007 Contributed talk entitled “Seasonal light variations of the system V839 Oph in 2007” in the conference “5th SREAC Meeting: Latest progress in Astrophysics”, organized by the faculty of Physics of the NKUA and UNESCO-BRESCE, 5-6 October 2007, Athens, Greece.
- 10/2007 Contributed talk entitled “The Light-time effect in the Algol-type eclipsing binary UZ Sagittae” in the conference “5th SREAC Meeting: Latest progress in Astrophysics”, organized by the faculty of Physics of the NKUA and UNESCO-BRESCE, 5-6 October 2007, Athens, Greece.
- 11/2005 Contributed talk entitled “On the period of the Jupiter’s red spot” in the “Seminars of Theoretical Astrophysics”, organized by Prof. K. Tsinganos, A. Mastichiadis and N. Vlahakis, faculty of Physics, NKUA, Zografos, Athens, Greece.
- 3/2004 Invited talk entitled “Beginning and evolution of the solar system” for the students of the 42nd general High school of Athens for the course “Astronomy and Space Physics”, Athens, Greece.

RESEARCH EXPERIENCE IN INTERNATIONAL PROJECTS

- 2016-now NELIOTA (P.I.: A. Bonanos & ESA)
- 2016 Monitoring of Gaia16aye (P.I.: L. Wyrzykowski)
- 2014-now The KOINet project (P.I.: C. von Essen)
- 2012 AZ Cas campaign 2012-2014 (P.I.: C. Gałan)
- 2011-now Binary stars program (P.Is.: S. Zola, V. Senavci)
- 2009-2011 Search for Novae in M31 (P.I.: W. Pietsch)
- 2009 Eclipses and occultations between the satellites of Jupiter (P.I.: A. Christou)
- 2008-2009 EE Cep campaign (P.I.: C. Gałan)
- 2007 Eclipses and occultations between the satellites of Uranus (P.I.: A. Christou)
- 2007-now The W UMa project (P.I.: S. Zola)
- 2006-now Photometric monitoring of OJ 287 blazar (P.I.: M. Valtonen, C. Villforth)

2005-2007 Asteroseismology of massive stars in the open clusters NGC 6910 and NGC 884 (P.I.: S. Saesen)

EXPERIENCE IN ASTRONOMICAL OBSERVATIONS

2016 Photometric and spectroscopic observations as visiting astronomer at Helmos Observatory (2.3m telescope) of the IAASARS-NOA, Greece (8 nights).

2015 Photometric observations as visiting astronomer at Helmos Observatory (2.3m telescope) of the IAASARS-NOA, Greece (12 nights).

2015 Photometric observations as postdoctoral researcher using the *Manchester Athens Wide Field Camera* (MAWFC).

2014 Photometric observations as visiting astronomer at Helmos Observatory (2.3m telescope) of the IAASARS-NOA, Greece (14 nights).

2012–now Photometric observations as support astronomer at Helmos Observatory (2.3m telescope) of the IAASARS-NOA, Greece (app. 85 nights).

2009–2011 Spectroscopic observations as visiting astronomer at Skinakas Observatory (1.3m telescope) of the University of Crete, Greece (app. 20 nights).

2006–now Photometric observations as visiting astronomer at Kryonerion Observatory (1.2m telescope) of the IAASARS-NOA, Greece (app. 250 nights).

2006-2012 Photometric observations as main astronomer at Gerostathopoulion Observatory (0.4m and 0.25m telescopes) of the NKUA, Greece (app. 1200 nights).

EXPERIENCE IN INSTRUMENTATION

2017 Set up of autoguiding system on the 1.2m telescope of the Kryoneri Astronomical Station. P.I.: Research director M. Xilouris (IAASARS-NOA).

2016 Participation in the upgrade of the 1.2m telescope of the Kryoneri Astronomical Station in the framework of NELIOTA research project. P.I.: Senior Researcher A. Bonanos (IAASARS-NOA).

2015 Participation in the calibration procedure of the *Aristarchos Transient Spectrometer* (ATS). P.I.: Research Director P. Boumis (IAASARS-NOA).

2014-Today Participation in the construction and setup of the *Aristarchos Wide Field Camera* (AWFC). P.I.: Research Director P. Boumis (IAASARS-NOA).

2014-Today Participation in the construction and setup of the *Manchester Athens Wide Field Camera* (MAWFC). P.I.: Research Director P. Boumis (IAASARS-NOA).

2014 Participation in the set up of the Shack-Hartmann wavefront sensor for the Aristarchos telescope. P.I.: Research Director E. Xilouris (IAASARS-NOA).

2012-2013 Set up of a 30cm telescope with autoguiding system for seeing measurements using the DIMM method at Helmos Observatory, Greece. P.Is.: Research Director P. Boumis and Senior Researcher P. Hantzios (IAASARS-NOA).

2009-2011 Set up of a 25cm telescope with autoguiding system for wide field observations at the Gerostathopoulion Observatory of the NKUA, Greece. P.I.: Prof. P. Niarchos (AAM-NKUA).

THESES

- 2012 Ph.D. Study of selected eclipsing variable stars of EA, oEA and EB type – Absolute parameters, evolutionary status and orbital evolution
- 2008 M.Sc. CCD photometry of eclipsing binaries and study of their O–C diagrams
- 2006 Diploma LITE and Apsidal motion Study of the Eclipsing Binaries UX Eri, TX Her, IQ Per

TEACHING AND PUBLIC OUTREACH EXPERIENCE

- 9/2016 Team tutor in the “21st Astronomy summer school” organized by the IAASARS/NOA, 2, 5 & 6 September 2016, Athens, Greece.
- 2007–2012
(once per month) Demonstration of the Astronomical equipment of the Gerostathopoulion Observatory of the University of Athens and observation with the public for the seminar “Open nights for all” organized by Prof. P. Niarchos, faculty of Physics, NKUA.
- 2007–2012
(spring & winter semester) Teaching assistant of the exercise “Solar Observation at the Gerostathopoulion Observatory” for the undergraduate course “Introduction to Astrophysics” of the faculty of Physics of the NKUA.
- 2007–2012
(winter semester) Teaching assistant of the exercise “Variable star photometry and time of minima calculation” for the post-graduate course “Methods of Astronomical Observation and Data Analysis” of the faculty of Physics of the NKUA.
- 2007–2012
(spring semester) Teaching assistant of the exercise “Night Observation at the Gerostathopoulion Observatory” for the undergraduate course “Observational Astrophysics” of the faculty of Physics of the NKUA.
- 2008–2012
(spring & winter semester) Teaching assistant (laboratory part) of the undergraduate course “Introduction to Astrophysics” of the faculty of Physics of the NKUA.
- 2007-2012
(winter semester) Teaching assistant (laboratory part) of the undergraduate course “Physics” of the faculty of Geology of the NKUA.
- 2008–2011
(spring semester) Teaching assistant (laboratory part) of the undergraduate course “Physics” of the faculty of Biology of the NKUA.
- 9/2009 Demonstration of the Astronomical equipment of the Gerostathopoulion Observatory of the University of Athens and observation for the “14th Astronomy summer school” organized by the IAASARS/NOA and the Dept. of AAM of the NKUA, 1-3 September 2009, Athens, Greece.
- 4/2009 Demonstration of the Astronomical equipment of the Gerostathopoulion Observatory of the University of Athens and observation for the celebration entitled: “2-5 April 2009 – 100 hours of Astronomy” of the international year of Astronomy-2009, faculty of Physics, NKUA.
- 2009–2011
(winter semester) Teaching assistant (laboratory part) of the undergraduate course “Introduction to Astronomy” of the faculty of Mathematics of the NKUA.

2007–2008
(winter semester) Teaching assistant (laboratory part) of the undergraduate course “Physics-I” of the faculty of Physics of the NKUA.

COMPUTER SKILLS

- MS Windows: XP, VISTA, 7, 10, Server 2012 (excellent)
- MS word, MS excel, MS powerpoint, MIKTEX, Origin (excellent)
- Linux: Fedora, Ubuntu (elementary)
- Internet, computer networks
- Hardware setup (including astronomical instrumentation)
- Programming in Fortran, Matlab, Mathematica, Python (elementary)
- Astronomical softwares knowledge: MAXIMDL, AIP4WIN, C-MUNIPACK, PHOEBE, PERIOD04, FAMIAS, RAVERE, SPECTRUM, BROADENING FUNCTIONS, BINARY MAKER, MINIMA, THESKY 6 (excellent); IRAF (elementary)

LANGUAGES

- Greek (Hellenic) – mother tongue
- English-advanced (C1 level)

OTHER ACTIVITIES RELATED TO ASTRONOMY

- Reviewer of proposals for telescope time allocation by the NASA’s space mission K2 (Guest Observer Cycle 6 – Phase A) for campaigns 17, 18, and 19
- Reviewer in Scientific journals (ApJ, AJ, PASP, PASJ, NewA, Revista Mexicana de Astronomía y Astrofísica)
- Member of the International Astronomical Union (IAU)
- Ordinary Member of the Hellenic Astronomical Society (HEL.A.S.)
- Member of the Hellenic Association of the Amateur Astronomers

HOBBIES

- Computers
- Drone flights
- Photography, Astrophotography, aerial photography
- Board games
- Miniature modeling
- Martial arts
- Reading, cinema

REFEREES

(Available upon request)

Niarchos Panagiotis (Ph.D. Supervisor)	Professor Emeritus of the Dept. of AAM, faculty of Physics, NKUA, Greece
Boumis Panagiotis (Postdoctoral research supervisor)	Research Director of the IAASARS-NOA, Greece

Bonanos Alceste
(Postdoctoral research supervisor)

Senior Researcher of the IAASARS-NOA, Greece

Budding Edwin
(Collaborator)

Honorary Research Fellow at the School of Chemical and Physical Sciences, Victoria University of Wellington & Department of Physics and Astronomy, University of Canterbury, Christchurch, New Zealand

Zola Stanislaw
(Collaborator)

Professor of the Astronomical Observatory of the Jagiellonian University & Mt. Suhora Astronomical Observatory of the Pedagogical University, Krakow, Poland

Wolf Marek
(Collaborator)

Head of the Astronomical Institute of the Charles University, Faculty of Mathematics and Physics, Prague, Czech Republic

Mkrtichian David
(Collaborator)

Visiting Astronomer/Leading Astronomical Researcher of the National Astronomical Research Institute of Thailand, Chiang Mai, Thailand & Crimean Astrophysical Observatory, Ukraine