

## Ioannis Liodakis

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### EDUCATION

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Defended thesis	University of Crete: <b>Ph.D. in Astrophysics</b>
April 2017	Thesis advisor: V. Pavlidou, <a href="mailto:pavlidou@physics.uoc.gr">pavlidou@physics.uoc.gr</a> , <ul style="list-style-type: none"> <li>• Research internship at Caltech, Marie Curie IRSES program, Apr-Sep 2016</li> <li>• Research internship at Max Planck Institute for Radio Astronomy Erasmus Placement program, Nov 2015 - Feb 2016</li> </ul>
2014	University of Patras: <b>M.Sc. in Physics</b> <ul style="list-style-type: none"> <li>• <i>with honors</i> (Graduated top of class)</li> </ul>
2012	University of Patras: <b>B.Sc. in Physics</b> <ul style="list-style-type: none"> <li>• Research internship at Univ. of Trento, Erasmus Placement program, Mar-May 2011</li> <li>• Vis. studentship at Univ. of Amsterdam, Erasmus Exchange program, Feb-Jul 2008</li> </ul>

### FELLOWSHIPS & AWARDS

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**NASA postdoctoral fellowship**, NASA Marshall Space Flight Center, Sep 2023 -  
**Best young Cretan research award**, Region of Crete, Jan 2022  
**JSPS short-term fellowship**, Japan Society for the Promotion of Science, Jan 2021  
**Gruber Fellowship**, Gruber Foundation & IAU, Sep 2020  
**FINCA fellowship**, University of Turku, Sep 2020-2023  
**KIPAC fellowship**, Stanford University, 2017-2020  
**AAS ITG**, TeVPA 2019, Dec 2019  
**Short term Mission (Staff exchange)**, RadioNet, Feb 2018  
**Best Young Researcher**, University of Crete, *Awarded across all disciplines*, Jul 2017  
**Best PhD Thesis Prize**, Hellenic Astronomical Society (Hel.A.S), Mar 2017  
**Erasmus Placement Fellowship**, University of Crete, Sep 2015  
**Erasmus Placement Fellowship**, University of Patras, Oct 2010  
**Erasmus Studies Fellowship**, University of Patras, Sep 2007

### EXTENDED INVITED VISITS (> 2 weeks)

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**Space Science Data Center**, Mar 2023  
**Sejong University**, Feb 2023  
**Boston University**, Nov 2022  
**Ludwig Maximilian University of Munich**, Oct 2022  
**Kavli Institute for the Physics and Mathematics of the Universe**, May 2022  
**University of Crete**, Nov 2020 - May 2021  
**New York University**, Sep 2019  
**Korea Astronomy and Space Science Institute**, Oct 2018  
**Max Planck Institute for Radioastronomy**, Sep 2018  
**University of Hiroshima**, Jun 2018  
**New York University**, Feb 2017  
**California Institute of Technology**, Apr-Jun 2016

### SUMMARY OF PUBLICATIONS

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Total number of refereed publications: **86**; Citations: 3393, h-index: 26 ([Google Scholar](#)).  
 First author refereed publications: **22** (*13 without PhD supervisor, 2 single author*); Co-authored refereed publications with significant contribution: **21**; Refereed publications with mentees: **5**; Total number of non-refereed publications/white papers: **11**; Astronomer's telegrams: **7**; Conference oral/poster contributions **>30**.

**INVITED TALKS/COLLOQUIA/SEMINARS**

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Lebedev Physical Institute, October 2023  
 Max-Planck Symposium, September 2023  
 Max-Planck for Radioastronomy, July 2023  
 European Astronomical Society meeting, July 2023  
 Institute de Astronomia de Andalucia, June 2023  
 Astronomical Observatory of Warsaw University, Apr 2023  
 Chalmers Technical University, Apr 2023  
 Istituto di Astrofisica e Planetologia Spaziali. -INAF, Feb 2023  
 Universita Roma Tre, Feb 2023  
 Osservatorio Astronomico di Roma, Feb 2023  
 Kyungpook National University, Feb 2023  
 Sejong University, Feb 2023  
 University of Patras, Jan 2023  
 CTA/CTAO synergies seminar series, Dec 2022  
 UC Santa Cruz, Nov 2022  
 KIPAC, Stanford University, Nov 2022  
 Vanderbilt University, Nov 2022  
 MIT - Kavli Institute, Nov 2022  
 Black hole Initiative, Harvard University, Nov 2022  
 Boston University, Nov 2022  
 Ludwig Maximilian University of Munich, Oct 2022  
 European Southern Observatory - Garching, Oct 2022  
 Max Planck Institute for Physics, Oct 2022  
 Roma International Astroparticle Physics - RICAP22, Sep 2022  
 Astrophysical Polarimetry in the time-domain era, Aug 2022  
 UST Global Mentoring Conference, Jul 2022  
 American Astronomical Society meeting, Jun 2022  
 MAGIC collaboration meeting, Jun 2022  
 RIKEN, May 2022  
 National Astronomical Observatory of Japan, May 2022  
 Institute for cosmic-ray research, May 2022  
 Kavli IPMU, May 2022  
 University of Athens, Mar 2022  
 University of Washington St. Louis, Nov 2021  
 Thuringian State Observatory, Oct 2021  
 Lebedev Physical Institute, Apr 2021  
 University of Crete, Feb 2021  
 Tuorla Observatory, Feb 2021  
 Metsähovi Radio Observatory, Dec 2020  
 University of Turku, Sep 2020  
 Stanford University, Aug 2020  
 Louisiana State University, Jan 2020  
 Yale University, Oct 2019  
 Stony Brook University, Sep 2019  
 Columbia University, Sep 2019  
 New York University, Sep 2019  
 National Observatory of Athens, Apr 2019  
 TAPIR seminar, Caltech, Apr 2019  
 Korea Astronomy and Space Science Institute, Oct 2018  
 MPIfR, Sep 2018  
 Tokyo Institute of Technology, Jun 2018  
 University of Hiroshima, Jun 2018  
 Stanford University, Oct 2017  
 Hellenic Astronomical Society's biannual meeting, Jun 2017

**INVITED TALKS/COLLOQUIA/SEMINARS – Continued**

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New York University, Feb 2017

Purdue University, Aug 2016

MPIfR, Feb 2016.

University of Crete, Nov 2015

**SUCCESSFUL PROPOSALS**

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Funding as PI: **\$1,635,000**

**PI:** ERC-StG2022, European Research Council, **\$1.5M**, Sep 2024 (planned)

**PI:** Nordic Optical telescope, **6 hours**, PERIOD 68, id number: 68-011, Mar 2023

**PI:** VLT, **2 hours**, P112, Proposal ID: 112.25KE, Aug 2023

**PI:** ERC-StG2022 reserve list, Niarchos foundation, **\$750,000**, May 2023 (**declined**)

**PI:** Nordic Optical telescope, **9 hours**, PERIOD 67, id number: 67-005, Mar 2023

**PI:** Nordic Optical telescope, **14.2 hours**, PERIOD 67, id number: 67-004, Mar 2023

**Co-I:** The Neil Gehrels Swift Observatory, **116 ksec**, Cycle 19, Jan 2023

**Co-I:** XMM-Newton, **180 ksec**, AO-22, Proposal ID: 092090, Dec 2022

**PI:** Nordic Optical telescope, **9 hours**, PERIOD 66, id number: 65-014, Sep 2022

**PI:** ALMA, **36 hours**, Cycle 9, Proposal ID: 2022.1.00193.S, **\$5,000**, Aug 2022

**PI:** ALMA, **9 hours**, Cycle 8, DDT: 2021.A.00016.T, May 2022

**PI:** SAO, **16 hours**, Semester 2022B, Apr 2022

**PI:** Nordic Optical telescope, **12 hours**, PERIOD 65, id number: 65-014, Feb 2022

**PI:** Nordic Optical telescope, **9 hours**, PERIOD 65, id number: 65-010, Feb 2022

**Co-I:** The Neil Gehrels Swift Observatory, **300 ksec**, Cycle 18, **\$40,000**, Jan 2022

**PI:** VLT, **12 hours**, P109, Proposal ID: 109.22ZF, **\$5,000**, Dec 2021

**PI:** ALMA, **16 hours**, Cycle 8, Proposal ID: 2021.2.00006.S, Dec 2021

**PI:** XMM-Newton, **216 ksec**, AO-21, Proposal ID: 090211

**PI:** Non-Stop Polarization experiment, **685 hours** in 15 optical telescopes

**PI:** Nordic Optical telescope, **4 nights**, PERIOD 64, id number: 64-006

**Co-I:** NuSTAR, **140 ksec**, Cycle 7, **\$60,000**, May 2021

**PI:** IAU symposium, “The multimessenger chakra of blazar jets”, **\$35,000**, Mar 2021,

**PI:** The Neil Gehrels Swift Observatory, **4 ksec**, Cycle 16, DDT, Feb 2021

**PI:** XMM-Newton, **12 ksec**, AO-19, DDT, Feb 2021

**PI:** Nordic Optical telescope, **4 nights**, PERIOD 63, id number: 63-023

**Co-I:** The Neil Gehrels Swift Observatory, **240 ksec**, Cycle 17, **\$40,000**, Jan 2021

**PI:** XMM-Newton, **130 ksec**, AO-20, Proposal ID: 088203

**PI:** Gruber fellowship, **\$25,000**, Gruber Foundation & IAU, Sep 2020

**PI:** Nordic Optical Telescope, **0.5 nights**, OPTICON 20B, id number: P62-103

**Co-I:** NICER, **24 ksec**, Cycle 2, id number: 3100, **\$20,000**, Mar 2020

**PI:** The Neil Gehrels Swift Observatory, **36 ksec**, Target ID:36386, Dec 2018

**PI:** XMM-Newton, **57 ksec**, AO-19, Proposal ID: 086184

**PI:** “Multiwavelength polarization of blazar jets”, EAS 2020 special session

**PI:** XMM-Newton, **30 ksec**, PR#107560, ToO

**PI:** Chandra X-ray Observatory, **20 ksec**, ObsID: 22914, DDT, **\$20,000**

**Co-I:** ALMA, **13.4 hours**, 2019.A.00003.T, DDT

**PI:** KIPAC Innovation grants, **\$25,000**, KIPAC, 2019

**PI:** Nordic Optical Telescope, **0.5 nights**, OPTICON 19B, id number: P60-104

**PI:** KIPAC workshop, **\$20,000**, Stanford, Aug 2019

**PI:** Skinakas Observatory, **10 nights** with the RoboPol instrument, 2019

**PI:** The Neil Gehrels Swift Observatory, **10 ksec**, Target ID:41574, Dec 2018

**Co-I:** QUOKKAS project, **\$600,000**, Samsung, 2018

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**TEACHING/OBSERVING EXPERIENCE**


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**Guest Lecturer**, University of Athens, May 2023  
**Guest Lecturer**, University of Athens, Mar 2022  
**Lecturer**, KIPAC summer student program, Stanford, 2020  
**Lecturer**, Stanford Splash, Stanford, 2020  
**Teaching assistant**, University of Crete, Physics laboratory I, 2017  
**Teaching assistant**, University of Crete, Physics laboratory I, 2016  
**Tutor**, Skinakas observatory, operation training seminars, 2015-2017  
**Teaching assistant**, University of Patras, Computational Physics, 2015  
**Telescope Operator/Observer**, Skinakas Observatory, >90 nights on 1.3 meter telescope

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**COLLABORATIONS/ORGANIZATIONS**


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**The enhanced X-ray Timing and Polarimetry mission (eXTP – proposed mission)**, 2023-  
**The High Energy X-ray Probe (HEX-P – proposed mission)**, 2022-  
**CMB-S4 Collaboration**, 2022-  
**ngEHT Collaboration**, 2021-  
**OVRO Collaboration**, 2020- (Coordinator multimessenger science working group)  
**MAGIC Collaboration**, 2020-  
**Cherenkov telescope Array collaboration**, 2020-  
**LSST AGN Science Collaboration**, 2019-  
**Imaging X-ray Polarimetry Explorer Collaboration**, 2018 - (Coordinator follow up program)  
**Fermi Space telescope Collaboration**, 2017 -  
**European Astronomical Society**, 2016 -  
**RoboPol Collaboration**, 2014 - (Coordinator transient working group)  
**Hellenic Astronomical Society**, 2013 -  
**Amateur Astronomical Society of Patras**, 2005 -, board member (2009-2010)

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**UNDERGRADUATE/GRADUATE STUDENT MENTORING**


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**Pouch. K.**, graduate student, University of Turku, 2022-  
**Y. Wu**, master's student, Ludwig-Maximilians-University, 2022-  
**F. Ristioja**, undergraduate student, University of Turku summer program, 2021  
**A. L. Peirson**, graduate student, Stanford University, 2021, **Peirson et al.**, (2022a, 2022b), [arXiv:2201.01110,2204.11803](#)  
**J. Jormanainen**, graduate student, University of Turku, 2020-, **Jormanainen et al.**, (2021, ICRC, [arXiv:2109.08529](#))  
**S. Gibson**, undergraduate student, SULI program, SLAC, 2020, results were published as part of **Dainotti et al.**, (2021, **APJ**, **920**, **118**, [arXiv:2107.10952](#))  
**A. L. Peirson**, graduate student, Stanford University, 2019, results were published as part of **Liodakis et al.**, (2019, **APJ**, [arXiv:1906.01647](#))  
**N. Mandarakas**, undergraduate thesis, University of Crete, 2016-2017, **Mandarakas et al.** (2018, **A&A**, [arXiv:1810.06312](#))  
**K. Kokolakis**, undergraduate and masters thesis, University of Crete, 2015-2016, results were published as part of **Mandarakas et al.** (2018, **A&A** [arXiv:1810.06312](#))  
**A. Lalakos**, undergraduate thesis, University of Crete, 2016  
**Instructor**, Skinakas observatory, telescope operation training seminars, 2015-2017  
**Co-Supervisor**, Skinakas observatory, undergraduate internship program, 2015-2017

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**INSTITUTIONAL RESPONSIBILITIES/COMMISSIONS OF TRUST**


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**Organizer:** FINCA staff retreat, University of Turku, 2022  
**Member:** Graduate student admissions committee, 2020  
**Coordinator:** KIPAC-LSST early science group, 2019-2020  
**PI & Host:** PAVES program, KIPAC, 2019-2020  
**NASA reviewer/panelist:** FINESST, *Fermi* GI program, 2019, 2020  
**Postdoc representative:** Postdoctoral mentoring committee, Stanford, 2018-2020  
**Organizer:** Postdoctoral retreat, Stanford, 2019  
**Co-organizer:** Postdoctoral retreat, Stanford, 2018  
**Mentor:** Stanford Undergraduate Research Association, 2018-2020  
**Telescope proposal reviewer:** Liverpool, GMRT, ESO, ALMA, Fermi 2017-  
**Journal reviewer:** APJ, MNRAS, Astrophysics and Space Science, Astronomy and Computing, Galaxies, RMxAA, PASA, PASP 2016-  
**Certified operator:** Skinakas observatory, 2015-

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**ORGANISATION OF SCIENTIFIC MEETINGS**


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**Organizer (chair),** “The multimessenger chakra of blazar jets”, IAU non-GA symposium, Kathmandu, Nepal, Dec 2022  
**Organizer (chair),** “Looking at the polarized Universe: Past, present and future” , Institute of Astrophysics (online), 2021  
**Organizer (chair),** SS6 – “Multiwavelength polarization of blazar jets” , EAS2020, 2020  
**Organizer (chair),** KIPAC annual postdoc retreat, 25 participants, Pescadero, 2019  
**Organizer (chair),** “Understanding blazars through multiwavelength variability”, 40 participants, Stanford University, 2019  
**Organizing committee,** Hellenic Astronomical Society’s biannual meeting, 144 participants, Heraklion, 2017  
**Organizer (chair),** 6th RoboPol collaboration meeting, 20 participants, Athens, 2016  
**Organizer (chair),** 3rd RoboPol collaboration meeting, 20 participants, Heraklion, 2014  
**Organizing committee,** 5th Hellenic Amateur Astronomy conference, 450 participants, Patras, 2007

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**OUTREACH ACTIVITIES**


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**2nd Ioannina science festival,** keynote speaker, Mar 2022  
**KIPAC open house,** citizen science program, ages 4-16, 2019  
**KIPAC open house,** crafting activities ages 4-16, 2017  
**Skinakas Observatory,** high-school guided tours, 2016  
**Skinakas Observatory,** guided tours (20-200 people), 2014-2017  
**Amateur Astronomical Society of Patras,** 5 high school guided tours, 2004-2010  
**Amateur Astronomical Society of Patras,** > 10 public observing nights, 2004-2010  
**Amateur Astronomical Society of Patras,** >10 public lectures, 2004-2010

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**PROFESSIONAL REFERENCES**


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**R. Blandford,** Stanford University, [rdb3@stanford.edu](mailto:rdb3@stanford.edu)  
**I. Papadakis,** University of Crete, [jhep@physics.uoc.gr](mailto:jhep@physics.uoc.gr)  
**V. Pavlidou,** University of Crete, [pavlidou@physics.uoc.gr](mailto:pavlidou@physics.uoc.gr)  
**A. Readhead,** California Institute of Technology, [acr@astro.caltech.edu](mailto:acr@astro.caltech.edu)  
**R. Romani,** Stanford University, [rwr@astro.stanford.edu](mailto:rwr@astro.stanford.edu)