Georgia Virginia Panopoulou

Chalmers University of Technology
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PROFESSIONAL APPOINTMENTS

Assistant Professor in Basic Sciences
Chalmers University of Technology, Sweden — March 2023 – present

Visiting researcher
University of Cyprus, Cyprus — December 2022 – February 2023

Postdoctoral scholar
California Institute of Technology, USA — September 2022 – October 2022

NASA Hubble Postdoctoral fellow
California Institute of Technology, USA — 2019 – August 2022

Staff Scientist
California Institute of Technology, USA — 2017 – 2019

EDUCATION

Ph.D., Physics
University of Crete, Greece — 2014 – 2017
Thesis: *"Structure and Evolution of Magnetic Molecular Clouds, Observational Consequences and Tests"*
Advisor: Kostas Tassis, University of Crete

M.Sc., Advanced Physics
University of Crete, Greece — 2012 – 2014
Thesis: *"Study of filamentary structures in the Taurus molecular cloud"*
Advisor: Kostas Tassis, University of Crete

B.Sc., Physics
University of Crete, Greece — 2007 – 2011
Thesis: *"Study of the accretion disk reflection spectra in compact objects"*
Advisors: Iossif Papadakis & Nick Kylafis, University of Crete

GRANTS, AWARDS & HONORS

Swedish Research Council (Vetenskapsrådet) Starting grant: SEK 4M (2024 - 2027)
Fellowship from the Knut and Alice Wallenberg foundation: SEK 9M (2024 - 2029)
NASA Hubble Postdoctoral Fellowship (2019 – 2022)
Funds for SOFIA Cycle 8 observing awarded as PI: $ 67.5k (2020)
International Astronomical Union PhD Prize (2017)

Young Researcher Award for the year 2015 − 2016, University of Crete
Selected Participant, 65th Lindau Nobel Laureate Meeting, Lindau, Germany (2015)

OBSERVING TIME ALLOCATIONS

PI, South African Astronomical Observatory 1.9 m telescope, 20 nights (2020, 2021, 2022)
PI, Palomar 200 inch telescope, 7 nights (2020, 2022)
PI, SOFIA Cycle 8, 6.8 hours (2020)
Co-PI, Nordic Optical Telescope, 1 night (2020)
Co-PI, Boston University 1.83 m Perkins Telescope, 11 nights (2020)
PI, Arizona Radio Observatory Heinrich-Hertz Submm Telescope, 377 hours (2016, 2017, 2019)
PI & Co-PI, Skinakas Observatory 1.3 m telescope, 84 nights (2013 − 2022)

COLLABORATION MEMBERSHIP

- RoboPol collaboration (robopol.org) (2013 − Present)
- PASIPHAE collaboration (pasiphae.science) (2016 − Present)
- The Interstellar Institute (interstellarinstitute.org) (2019 − Present)
- FUV NASA MIDEX mission concept *Polstar*, ISM science working group member (2020 − 2022)
- FIRE collaboration (2019 − Present)
- SKA Magnetism Science Working Group member (2021 − Present)
- SALSA: SOFIA Legacy program (galmagfields.com) (2022 − Present)

TEACHING & ADVISING

Instructor

1. Course instructor, Programming and Numerical Analysis, Chalmers (2023 – Present)
2. Lecturer, Bayesian Cosmological Data Analysis course, University of Oslo, Norway (August 2023)
3. Lecturer, Two-part lecture series in Astrophysics, University of Cyprus, Cyprus (February 2023)
4. Guest Lecturer, Cosmological Component Separation, graduate-level workshop, University of Oslo, Norway (August 2019)
5. Instructor, International Physicists' Tournament, 6-month preparatory program for undergraduates, University of Crete (2016, 2017)

Research Advisor

1. Alice Knutas, Ph.D. thesis, Chalmers, primary advisor (2025 – Present)
2. Siddharth Kumar, Ph.D. thesis, Chalmers, primary advisor (2023 – Present)
3. Moa Huppenkothen, CASSUM MSc-level summer research project, Chalmers, primary advisor (2025)
4. Myrto Falalaki, CASSUM undergraduate summer research project, Chalmers, primary advisor (2025)

5. Maicol Della Chiesa, CASSUM MSc-level summer research project, Chalmers, primary advisor (2024)
6. Anastasia Konstantinou, CASSUM undergraduate summer research project, Chalmers, primary advisor (2024)
7. Konstantinos Topalakis, 2-month MSc-level research internship, Chalmers, primary advisor (2024)
8. Karan Pal, 5-month MSc-level research internship, Chalmers, primary advisor (2024)
9. Sam Ponnada, Ph.D. thesis, Caltech, co-advisor (2021 – 2024)
10. Aelin Preuss, undergraduate summer research project, Caltech, primary advisor (2020)
11. Samir Johnson, undergraduate summer research project, Caltech, primary advisor (2020)
12. Eirik Bratli, Master's thesis, University of Oslo, co-advisor (2019 − 2020)
13. Dhruv Paranjpye, visiting undergraduate & graduate research projects, Caltech, co-advisor (2018, 2019)
14. Raphael Skalidis, undergraduate, MSc & Ph.D. research, University of Crete, co-advisor (2016 − 2020)
15. Ioanna Psaradaki, Master's thesis, University of Crete, co-advisor (2016 − 2017)
16. Monica He, visiting undergraduate summer research project, University of Crete, co-advisor (2014)

Teaching Assistant

Optics Lab course, University of Crete (2016)
Mechanics & Thermodynamics Lab course, University of Crete (2016)
Electromagnetism Lab course, University of Crete (2015)
Introduction to Computing, University of Crete (2009)

Training received for professional development

Principles of University Teaching and Learning in STEM, grad. course, Caltech (2019)
Storytelling for Scientists, course, Caltech (2017)

PROFESSIONAL SERVICE

Organization

• SOC, Special Session 6 'A panoptic view of the solar neighborhood: new insights into the nearest ISM laboratory', EAS, Cork, Ireland (2025)

• SOC, 16^{th} conference of the Hellenic Astronomical Society, Athens, Greece (2023)

• SOC, conference 'Looking at the Polarized Universe: past, present and future', virtual (2021)

• Co-organizer, 'The Galactic ISM in 3D' parallel session, CMB-S4 Summer collaboration meeting, virtual (2021)

• Co-organizer, Caltech TAPIR seminar series (2020-2021)

• SOC, workshop 'The Grand Cascade', Université Paris-Saclay, Orsay, France (2021)

• IOC, International Physicists' Tournament (2016 – 2020)

Reviewing

• Reviewer for *A&A*, *MNRAS*, *Nature Astronomy*, *PASA*, *FASS*

• Proposal reviewer, NASA Astrophysics Data Analysis Program

• Proposal reviewer, NSF Astronomy & Astrophysics Grants (AAG)

• Proposal reviewer, Future Investigators in NASA Earth and Space Science and Technology

• Proposal reviewer, California Institute of Technology Summer Undergraduate Research Fellowship

Outreach

• Lecture, Chalmers Aerospace Club (October 2024), *Exploring the Universe through dust*

• Lecturer, panelist & telescope volunteer, Caltech Astronomy Outreach Program (2017 – 2022)

• Guest lectures at high schools (Eagle Rock High School Astronomy Club, Huntington Park High School & STEAM Magnet)

• Outreach volunteer, Skinakas Observatory & University of Crete (2012 – 2017)

• Outreach organizer, University of Crete Student Astronomy Club (2008 – 2011)

• Greek language editor, 'The Universe in my pocket', www.tuimp.org (2021 – 2023)

Diversity & Equity

• Mentor, Astronomy Mentorship Program for Upcoming Postdocs (2023) www.nhfp-equity.org/mentorship-program

• Mentor, Pre-college Research Institute, www.pcriresearch.org (2021)

• Caltech Postdoctoral Association Diversity committee member (2020)

• Caltech Diversity & Inclusion ambassador trainee (2020)

PUBLICATIONS

Number of refereed publications: 54 (13 as corresponding author)
H-index: 29, Total number of citations: 2341 (Google Scholar)
Key: † publications involving student advisees, * corresponding author publications

Refereed Publications

1. *IXPE Observations of the Blazar Mrk 501 in 2022: A Multiwavelength View*
   Lisalda L. et al incl. **Panopoulou, G. V.**; 2025, MNRAS, 1094L
2. *Analyzing stellar and interstellar contributions to polarization: modeling approaches for hot stars*
   Ignace, R., Fullard, A. G., **Panopoulou, G. V.** et al. 2025; Ap&SS, 370,57I
3. **The magnetic field of the Radcliffe Wave: starlight polarization at nearest approach to the Sun*

Panopoulou, G. V. et al. 2025; A&A, 694A, 97P

4. **A compilation of optical starlight polarization catalogs*
   Panopoulou, G. V. et al. 2025; ApJS, 276, 15P
5. *Zero-polarization candidate regions for the calibration of wide-field optical polarimeters*
   Mandarakas, N.; et al. incl. **Panopoulou, G. V.**; 2024; A&A, 684A, 132M
6. *Wide Area Linear Optical Polarimeter North Instrument I: optical design, filter design, and calibration*
   Kypriotakis, I.; et al. incl. **Panopoulou, G. V.**; 2024; JATIS, 10, 4005K
7. *The first degree-scale starlight-polarization-based tomography map of the magnetized interstellar medium*
   Pelgrims, V. et al. incl. **Panopoulou, G. V.**, 2024, A&A, 684A, 162P
8. **Variations of Interstellar Gas-to-Dust Ratios at High Galactic Latitudes*
   Shull, J. M.; **Panopoulou, G. V.**; 2024; ApJ, 961, 204S
9. †*Synchrotron Emission on FIRE: Equipartition Estimators of Magnetic Fields in Simulated Galaxies with Spectrally-Resolved Cosmic Rays*
   Ponnada, S. B.; **Panopoulou, G. V.**; et al. 2023; arXiv:2309.04526
10. †*Synchrotron Signatures of Cosmic Ray Transport Physics in Galaxies*
    Ponnada, S. B.; et al. incl. **Panopoulou, G. V.**; 2023; arXiv:2309.16752
11. *Observations of Low and Intermediate Spectral Peak Blazars with the Imaging X-ray Polarimetry Explorer*
    Marshall, H. L.; et al. incl. **Panopoulou, G. V.**; 2023; arXiv:2310.11510
12. *Bright moon sky as a wide-field linear Polarimetric flat source for calibration*
    Maharana, S. ; et al. incl. **Panopoulou, G. V.**; 2023; A&A; 679; A68
13. *The RoboPol sample of optical polarimetric standards*
    Blinov, D. ; et al. incl. **Panopoulou, G. V.**; 2023; A&A; 677; A144
14. *IRAS 00450+7401 and the Mid-infrared Fade/Burst Cycle of R Coronae Borealis-type Stars*
    Burris, W. A. ; Melis, C.; Shafter, Allen W.; **Panopoulou, G. V.** ; Wright, E. L.; Della Costa, J.; 2023; AJ; 166; 40
15. *CO enhancement by magnetohydrodynamic waves; Striations in the Polaris Flare*
    Skalidis, R.; Gkimisi, K.; Tassis, K.; **Panopoulou, G. V.**; Pelgrims, V.; Tritsis, A.; Goldsmith, P. F. 2023; A&A; 673A; 76S
16. *Starlight-polarization-based tomography of the magnetized ISM: PASIPHAE's line-of-sight inversion method*
    Pelgrims, V.; **Panopoulou, G. V.** et al.; 2023; A&A; 670; A164
17. *X-Ray Polarization Observations of BL Lacertae*
    Middei, R.; et al., incl. **Panopoulou, G. V.**; 2023; ApJL; 942; L10

18. *Initial Conditions for Star Formation: A Physical Description of the Filamentary ISM*
Hacar, A.; Clark, S. E.; Heitsch, F.; Kainulainen, J.; **Panopoulou, G. V.**; Seifried, D.; Smith, R.; 2023; Protostars & Planets VII, ASP Conference Series, Vol. 534

19. *Ultraviolet spectropolarimetry with polstar: interstellar medium science*
Andersson, B.-G.; Clayton, G. C.; Doney, K. D.; **Panopoulou, G. V.**; Hoang, T.; Magalhaes, A. M. ; Yan, H.; Ignace, R.; Scowen, P. A.; 2022; ApSS; 367; 12; 127

20. *Polarized Blazar X-rays imply particle acceleration in shocks*
Liodakis, I.; et al. incl. **Panopoulou, G. V.**; 2022; 611; 677L

21. †*Magnetic fields on FIRE: Comparing B-fields in the multiphase ISM and CGM of simulated L_* galaxies to observations*
Ponnada, S. B.; **Panopoulou, G. V.**; Butsky, I. S.; Hopkins, P. F.; Loebman, S. R.; Hummels, C.; Ji, S.; Wetzel, A.; Faucher-Giguère, C.; Hayward, C.; 2022; MNRAS, 516, 4417

22. †$\mathrm{HI}-\mathrm{H}_2$ *transition: exploring the role of the magnetic field*
Skalidis, R.; Tassis, K.; **Panopoulou, G. V.**; Pineda, J. L.; Gong, Y.; Mandarakas, N.; Blinov, D.; Kiehlmann, S.; Kypriotakis, J. A.; 2022; A&A; 665; A77

23. *WALOP-South: A Four-Camera One-Shot Imaging Polarimeter for PASIPHAE Survey. Paper II – Polarimetric Modelling and Calibration*
Maharana, S.; Anche, R. M.; Ramaprakash, A. N.; Joshi, B.; Basyrov, A.; Blinov, D.; Casadio, C.; Deka, K.; Eriksen, H. K.; Ghosh, T.; Gjerløw, E.; Kypriotakis, J. A.; Kiehlmann, S.; Mandarakas, N.; **Panopoulou, G. V.**; Papadaki, K.; Pavlidou, V.; Pearson, T. J.; Pelgrims, V.; Potter, S. B.; Readhead, A. C. S.; Skalidis, R.; Leithe Svalheim, T.; Tassis, K.; Wehus, I. K.; 2022; 2021; J. Astron. Telesc. Instrum. Syst. 8(3); 038004; doi: 10.1117/1.JATIS.8.3.038004.

24. *Dust in the wind with Resonant Drag Instabilities: I. The dynamics of dust-driven outflows in GMCs and H II regions*
Hopkins, P. F.; Rosen, A. L. ; Squire, J. ; **Panopoulou, G. V.**; Soliman, N. H. ; Seligman, D. ; Steinwandel, U. P.; 2022; MNRAS 517; 1491H

25. *First predicted cosmic ray spectra, primary-to-secondary ratios, and ionization rates from MHD galaxy formation simulations*
Hopkins, P. F.; Butsky, I. S.; **Panopoulou, G. V.**; Ji, S.; Quataert, E.; Faucher-Giguère, C.-A.; Kereš, D.; 2022; MNRAS; 516, 3470

26. *Improved Galactic Foreground Removal for B-Modes Detection with Clustering Methods*
Puglisi, G.; Mihaylov, G.; **Panopoulou, G. V.**; Poletti, D.; Errard, J.; Puglisi, P. A.; Vianello, G.; 2022; MNRAS; 511; 2052P

27. **The width of Herschel filaments varies with distance*
Panopoulou, G. V.; Clark, S. E.; Hacar, A.; Heitsch, F.; Kainulainen, J.; Ntormousi, E.; Seifried, D.; Smith, R. J.; 2022; A&AL; 657L; 13P

28. [*] *Revisiting the distance to radio Loops I and IV using Gaia and radio/optical polarization data*
Panopoulou, G. V.; Dickinson, C.; Readhead, A. C. S.; Pearson, T. J; Peel, M. W; 2021; ApJ; 922; 210

29. *The time-dependent distribution of optical polarization angle changes in blazars*
Kiehlmann, S.; Blinov, D.; Liodakis, I.; Pavlidou, V.; Readhead, A. C. S.; Angelakis, E.; Casadio, C.; Hovatta, T.; Kylafis, N.; Mahabal, A.; Mandarakas, N.; Myserlis, I.; **Panopoulou, G. V.**; Pearson, T. J.; Ramaprakash, A.; Reig, P.; Skalidis, R.; Słowikowska, A.; Tassis, K.; Zensus, J. A.; 2021; MNRAS; 507; 225K

30. *RoboPol AGN Polarimetric monitoring data*
Blinov, D.; Kiehlmann, S.; Pavlidou, V.; **Panopoulou, G. V.**; Skalidis, R.; Angelakis, E.; Casadio, C.; Einoder, E. N.; Hovatta, T.; Kokolakis, K.; Kougentakis, A.; Kus, A.; Kyritsis, E.; Lalakos, A.; Liodakis, I.; Maharana, S.; Makrydopoulou, E.; Mandarakas, N.; Maragkakis, G. M.; Myserlis, I.; Papadakis, I.; Paterakis, G.; Pearson, T. J.; Ramaprakash, A. N.; Readhead, A. C. S.; Reig, P.; Słowikowska, A.; Tassis, K.; Xexakis, K.; Żejmo, M.; Zensus, J. A.; 2021; MNRAS; 501; 3715

31. *Evidence for line-of-sight frequency decorrelation of polarized dust emission in Planck data*
Pelgrims, V.; Clark, S. E.; Hensley, B. S.; **Panopoulou, G. V.**; Pavlidou, V.; Tassis, K.; Eriksen, H. K.; Wehus, I. K.; 2021; A&A; 647; A16

32. *WALOP-South: A Four Camera One Shot Imaging Polarimeter for PASIPHAE Survey. Paper I – Optical Design*
Maharana, S.; Kypriotakis, J. A.; Ramaprakash, A. N.; Rajarshi, C.; Anche, R. M.; Shrish; Blinov, D.; Eriksen, H. K.; Ghosh, T.; Gjerløw, E.; Mandarakas, N.; **Panopoulou, G. V.**; Pavlidou, V.; Pearson, T. J.; Pelgrims, V.; Potter, S. B.; Readhead, A. C. S.; Skalidis, R.; Tassis, K.; Wehus, I. K.; 2021; J. Astron. Telesc. Instrum. Syst. 7(1); 014004; doi: 10.1117/1.JATIS.7.1.014004.

33. [*] *Maps of the Number of H I Clouds along the Line of Sight at High Galactic Latitude*
Panopoulou, G. V.; Lenz, D.; 2020; ApJ; 902; 120P

34. [†] *Eliminating Artefacts from Polarimetric Images using Deep Learning*
Paranjpye, D.; Mahabal, A.; Ramaprakash, A. N.; **Panopoulou, G. V.**; Cleary, K; Readhead, A. C. S.; Blinov, D.; Tassis, K.; 2020; MNRAS; 491; 5151P

35. [*] *RoboPol: a four-channel optical imaging polarimeter*
Ramaprakash, A. N. et al.; incl. **Panopoulou, G. V.**; 2019; MNRAS; 485; 2355R

36. [*] *Extreme starlight polarization in a region with highly polarized dust emission*
Panopoulou, G. V.; Hensley, B. S.; Skalidis, R.; Blinov, D.; Tassis, K.; 2019; A&A; 624L; 8P

37. *Search for AGN counterparts of unidentified Fermi-LAT sources with optical polarimetry: Demonstration of the technique*
Mandarakas, N.; Blinov, D.; Liodakis, I.; Kouroumpatzakis, K.; Zezas, A.; **Panopoulou, G. V.**; Myserlis, I.; Angelakis, E.; Hovatta, T.; Kiehlmann, S.; Kokolakis, K.; Paleologou, E.; Pouliasi, A.; Skalidis, R.; Pavlidou, V.; 2019; A&A; 623A; 61M

38. [*] *Demonstration of magnetic field tomography with starlight polarization towards a diffuse sightline of the ISM*
Panopoulou, G. V.; Tassis, K.; Skalidis, R.l; Blinov, D.; Liodakis, I.; Pavlidou, V.; Potter, S. B.; Ramaprakash, A. N.; Readhead, A. C. S.; Wehus, I. K.; 2019; ApJ; 872; 56P

39. [†] *Local measurements of the mean interstellar polarization at high Galactic latitudes*
Skalidis, R.; **Panopoulou, G. V.**; Tassis, K.; Pavlidou, V.; Blinov, D.; Komis, I.; Liodakis, I.; 2018; A&A; 616A; 52S

40. *RoboPol: connection between optical polarization plane rotations and gamma-ray flares in blazars*
Blinov, D. et al.; incl. **Panopoulou, G. V.**; 2018; MNRAS; 474; 1296B

41. *Synchrotron emission from the blazar PG 1553+113. An analysis of its flux and polarization variability*
Raiteri, C. M. et al.; incl. **Panopoulou, G. V.**; 2017; MNRAS; 466; 3762R

42. [*†] *A closer look at the "characteristic" width of molecular cloud filaments*
Panopoulou, G. V.; Psaradaki I.; Skalidis R.; Tassis K.; Andrews J. J.; 2017; MNRAS; 466; 2529P

43. *RoboPol: the optical polarization of gamma-ray-loud and gamma-ray-quiet blazars*
Angelakis, E. et al.; incl. **Panopoulou, G. V.**; 2016; MNRAS; 463; 3365A

44. *Optical polarization of high-energy BL Lacertae objects*
Hovatta, T.; Lindfors, E.; Blinov, D.; Pavlidou, V.; Nilsson, K.; Kiehlmann, S.; Angelakis, E.; Fallah Ramazani, V.; Liodakis, I.; Myserlis, I.; **Panopoulou, G. V.**; Pursimo, T.; 2016; A&A; 596A; 78H

45. *RoboPol: do optical polarization rotations occur in all blazars?*
Blinov, D. et al.; incl. **Panopoulou, G. V.**; 2016; MNRAS; 462; 1775B

46. [*†] *The magnetic field and dust filaments in the Polaris Flare*
Panopoulou G. V.; Psaradaki I.; Tassis K.; 2016; MNRAS; 462; 1517P

47. *RoboPol: optical polarization-plane rotations and flaring activity in blazars*
Blinov, D. et al.; incl. **Panopoulou G. V.**; 2016; MNRAS; 457; 2252

48. *RoboPol: First season rotations of optical polarization plane in blazars*
Blinov, D. et al.; incl. **Panopoulou G. V.**; 2015; MNRAS; 453; 1669

49. *Magnetic Field - Gas Density Relation and Observational Implications Revisited*
Tritsis A.; **Panopoulou G. V.**; Mouschovias T. Ch.; Tassis K.; Pavlidou V.; 2015; MNRAS; 451; 4384

50. **Optical polarization map of the Polaris Flare with RoboPol*
Panopoulou G. V. et al.; 2015; MNRAS; 452; 715
51. *Early-time polarized optical light curve of GRB 131030A*
King O. G. et al.; incl. **Panopoulou, G. V.**; 2014; MNRAS; 445; L114
52. **^{13}CO Filaments in the Taurus Molecular cloud*
Panopoulou, G. V.; Tassis K.; Goldsmith P. F.; Heyer M.; 2014; MNRAS; 444; 2507
53. *The RoboPol optical polarization survey of gamma-ray-loud blazars*
Pavlidou V. et al.; incl. **Panopoulou G. V.**; 2014; MNRAS; 442; 1693
54. *The RoboPol pipeline and control system*
King O. G. et al.; incl. **Panopoulou G. V.**; 2014; MNRAS; 442; 1706

White papers

1. *Ultraviolet Spectropolarimetry with Polstar: Interstellar Medium Science*
Andersson, B-G; Clayton, G. C.; Doney, K. D.; Hoang, T.; Magalhaes, A. M.; **Panopoulou, G. V.**; Yan, H.; Scowen, P. A.; 2021; arXiv:2111.08079

2. *The need for better tools to design future CMB experiments*
Rocha, G.; Banday, A. J.; Barreiro, R. B.; Challinor, A.; Górski, K. M.; Hensley, B.; Jaffe, T.; Jewell, J.; Keating, B.; Kogut, A.; Lawrence, Charles; **Panopoulou, G. V.**; Partridge, B.; Pearson, T.; Silk, J.; Steinhardt, P.; Wehus, I.; Bock, J.; Crill, B.; Delabrouille, J.; Doré, O.; Fernandez-Cobos, R.; Ijjas, A.; Keskitalo, R.; Kritsuk, A.; Mangilli, A.; Moncelsi, L.; Myers, S.; Steinbach, B.; Tristram, M.; 2019; BAAS; 51g; 221R

3. *PASIPHAE: A high-Galactic-latitude, high-accuracy optopolarimetric survey*
Tassis, K.; Ramaprakash, A. N.; Readhead, A. C. S.; Potter, Stephen B.; Wehus, I. K.; **Panopoulou, G. V.**; Blinov, D.; Eriksen, H. K.; Hensley, B.; Karakci, A.; Kypriotakis, J. A.; Maharana, S.; Ntormousi, E.; Pavlidou, V.; Pearson, T. J.; Skalidis, R.; 2018; arXiv:1810.05652

INVITED TALKS

Astronomy Colloquium, Cardiff University, Cardiff, UK, *Mapping the Galactic magnetic field in 3D with stellar polarimetry* (2025)

Astronomy Colloquium, Jodrell Bank Center for Astrophysics, Manchester, UK, *Mapping the Galactic magnetic field in 3D with stellar polarimetry* (2025)

Sweden SKA Science days, Chalmers University of Technology, Sweden (2024), *Galactic magnetism in 3D*

Astronomy Colloquium, Chalmers University of Technology, Sweden (2024), *Mapping the Galactic magnetic field in 3D*

Colloquium, University of Geneva/EPFL, Switzerland (2024), *Mapping the Galactic*

magnetic field in 3D

Colloquium, Institute for Theoretical Astrophysics, University of Oslo, Norway (2023), *Synergies between CMB data and stellar polarimetry*

4^{th} conference of the Society of Physicists of Cyprus on teaching and research in Physics, University of Cyprus, Cyprus (2023), *Exploring the Universe through cosmic dust*

Hellenic Astronomical Society Colloquium, online event (2023), *Observations of magnetic fields in the ISM*

Galactic science and CMB foregrounds, Instituto de Astrofisica de Canarias, Tenerife, Spain (2022), *Synergies between CMB data and stellar polarimetry*

Seminar, Department of Physics, University of Cyprus, Cyprus (2022), *Cosmic magnetism: tackling a new frontier with Big Data*

Astronomy Colloquium, Caltech, USA (2022), *Grasping the mysterious drivers of galaxy evolution with Big Data*

Colloquium, Department of Astrophysics, University of Vienna, Austria (remote) (2021), *Towards reconstructing Galactic magnetic fields in 3D*

Modeling the Galactic Magnetic Field, Lorentz Center, Leiden, Netherlands (remote) (2021), *The distance to nearby radio loops from starlight polarization*

LOFAR Magnetism Key Science Project (remote) (2021), *Distance measurements to Loop I/IV using B-field alignments and Gaia*

15th Hellenic Astronomical Society conference (remote) (2021), *Galactic spurs of synchrotron emission: new distance constraints*

B fields and the structure of the filamentary ISM (remote) (2021), *The North Polar Spur puzzle: feedback near vs feedback far*

The University of Chicago High Energy Astrophysics journal club (remote) (2021), *The North Polar Spur puzzle: feedback near vs feedback far*

Astronomical Polarimetry 2020 IAU symposium (remote), Hiroshima, Japan (2021), *Observations of magnetic fields in the diffuse ISM*

UCSD-CASS Astrophysics Seminar (remote), University of California - San Diego, CA, USA (2020), *Improving CMB foreground dust modeling by 3D mapping the magnetized ISM*

Astronomy colloquium (remote), Pennsylvania State University, PA, USA (2020), *Mapping the Galactic magnetic field in 3D*

Astrophysics colloquium (remote), Radboud University, Netherlands (2020), *Clearing*

the path to primordial B-modes by 3D mapping the magnetized ISM

SOFIA colloquium (remote), NASA Ames, CA, USA (2020), *3D mapping of the dusty, magnetized ISM with starlight polarization*

Kavli Institute for Particle Astrophysics & Cosmology seminar (remote), Stanford University, CA, USA (2020), *3D mapping of the dusty, magnetized ISM with starlight polarization*

Galaxies & Cosmology seminar, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, USA (2020), *3D mapping of the dusty, magnetized ISM with starlight polarization*

B-mode from Space, Munich, Germany (2019), *3D mapping of the dusty, magnetized ISM with starlight polarization*

Crete III: From dark lanes to new stars, Hersonissos, Greece (2019), *Magnetic fields in star formation: Observations*

Informal Seminar, Institute for Advanced Study, Princeton, NJ, USA (2019), *Studying the Magnetic Field of the Diffuse ISM in 3D*

Interstellar Filament Paradigm, Nagoya, Japan (2018), *Formulating a null hypothesis for molecular cloud filaments*

Radio/submm lunch talk, California Institute of Technology, Pasadena, CA, USA (2018), *Insights on the diffuse magnetized ISM of the Milky Way*

XXVIIIth IAU General Assembly, Vienna, Austria (2018), PhD prize talk

Astrophysics Luncheon Seminar, Jet Propulsion Laboratory, Pasadena, CA, USA (2018), *Insights on the Structure and Dynamics of Magnetized Interstellar Filaments*

Keck Institute for Space Studies workshop: Designing Future CMB Experiments, Pasadena, CA, USA (2018), *Probing the magnetic field in Galactic structures*

University of California, San Diego, Center for Astrophysics and Space Sciences Seminar, San Diego, CA, USA (2018), *Insights on the diffuse magnetized ISM through starlight polarimetry*

The ISM beyond 3D, Institute d'Astrophysique Spatiale, Orsay, France (2017), *Do molecular cloud filaments really have a "characteristic" width?*

RoboPol and Polarimetry in Astronomy, Inter-University Center for Astronomy and Astrophysics, Pune, India (2015), *Magnetic Fields in Galactic Molecular Clouds*

CONTRIBUTED TALKS

Cosmic Magnetism with Radio Astronomy, Pisa, Italy (2024), *Anchoring polarized*

radio features in 3D space with stellar polarimetry

Astronomdagarna, Lund University, Lund, Sweden (2024), *Mapping the Galactic magnetic field in 3D with stellar polarization*

Origin and Fate of Dust in our Universe, Chalmers University, Gothenburg, Sweden (2023), *Constraining ISM dust properties with stellar polarization and dust emission*

Interstellar Institute 5: With Two Eyes, Institut Pascal, Paris, France (2022), *3D mapping the magnetized ISM: interplay between feedback and magnetism in the Solar vicinity*

From Stars to Galaxies II, Chalmers University of Technology, Gothenburg, Sweden (2022), *3D mapping the magnetized ISM: interplay between feedback and magnetism in the Solar vicinity*

Grand Cascade, Institut Pascal, Paris, France (2021), *Revisiting an old puzzle of the filamentary ISM: Distance measurements to synchrotron spurs*

NASA Hubble Fellows Symposium, remote (2021)

NASA Hubble Fellows Symposium, remote (2020)

NASA Hubble Fellows Symposium, Washington D.C., USA (2019)

The Milky Way in the Age of Gaia, Paris, France (2018), *Magnetic tomography of the ISM with starlight polarization and Gaia*

The Olympian Symposium on Star Formation: Gas and Stars from milli to mega parsecs, Katerini, Greece (2018), *The ISM magnetic field in 3D along a diffuse sightline*

13th Hellenic Astronomical Conference, Heraklion, Greece (2017), *Molecular cloud filaments: do they really have a "characteristic" width?*

European Week of Astronomy and Space Science, Prague, Czech Republic (2017), *Molecular Cloud Filaments: No evidence for a "characteristic" width*

6 years of ISM-SPP 1573: What have we learned?, Cologne, Germany (2017), *Molecular Cloud Filaments: No evidence for a "characteristic" width*

European Week of Astronomy and Space Science, Athens, Greece (2016), *^{13}CO filaments in the Taurus molecular cloud*

Filamentary Structure in Molecular Clouds, Charlottesville, VA, USA (2014), *^{13}CO Filaments in the Taurus Molecular cloud*

The Olympian Symposium on Star Formation, Katerini, Greece (2014), *^{13}CO Filaments in the Taurus Molecular cloud*