

# STELLA BOULA

Ph.D. in astrophysics

🌐 [stboula.site123.me](http://stboula.site123.me)

🆔 [orcid.org/0000-0001-7905-6928](https://orcid.org/0000-0001-7905-6928)



## EDUCATION

Ph.D in Astrophysics, Grade: Excellent

**National and Kapodistrian University of Athens**

📅 2016 - 2021

📍 Athens, Greece

"Modeling the multi-wavelength spectrum from Active Galactic Nuclei"

Supervisor: Professor Apostolos Mastichiadis

Masters of Science in Astrophysics, Astronomy & Mechanics, Grade: Excellent

**National and Kapodistrian University of Athens**

📅 2014 - 2016

📍 Athens, Greece

"Modelling Non-thermal Spectra of Active Galactic Nuclei" Supervisor:

Professor Apostolos Mastichiadis, Grade: Excellent.

Bachelor of Physics, Grade: Very Good

**National and Kapodistrian University of Athens**

📅 2007 - 2014

📍 Athens, Greece

"Absorption of High Energy Radiation in Gamma Ray Bursts"

Supervisor: Professor Apostolos Mastichiadis

## WORK EXPERIENCE

Postdoctoral research position

**INAF-OAB**

📅 03/2024-present

Postdoctoral research position (adjunct)

**Gamma-Ray Astrophysics Department, H. Niewodniczanski Institute of Nuclear Physics, Polish Academy of Sciences**

📅 07/2021-02/2024

Public Outreach

**National Observatory of Athens**

📅 2014-2018

## PROFESSIONAL SERVICE

*Science working group member:* SST-1M collaboration - more in ICRC 2023 contributions: PoS(ICRC2023)741, PoS(ICRC2023)592

*Proposal reviewer:* NASA Swift and Fermi panels

*Journal reviewer:* Astronomy & Astrophysics, Monthly Notices of the Royal Astronomical

*Assistant to e-book production:* "High Energy Astrophysics", Authors: Professors A. Mastichiadis & N. Vlahakis.

*Project member:* "Black holes altering galaxy evolution: how to find them", PI: N. Vlahakis, 2018

## SCHOLARSHIPS

**2018-2021** State Scholarships Foundation (IKY) for PhD studies

**2018 & 2020** Two travel grants from the Hellenic Astronomical Society

**2007-2011** Tsapalas foundation scholarship for undergraduate studies

**2007-2012** Scholarship from women's association: "Friends of Chios' villages" for undergraduate studies

## LANGUAGES

**Greek** Native speaker

**English** Certificate of Proficiency in English (University of Michigan)

## COMPUTER SKILLS

**Programming:** python, fortran 77, C, Matlab, Mathematica

**Software:** Pluto, VO tools for Astronomy

**OS:** Linux, Microsoft Windows, macOS

**Microsoft 365 ECDL, ECDL Advanced**

## TEACHING

**Physics Department, National and Kapodistrian University of Athens, Athens, Greece**

Laboratory tutor:

**2015-2020** Introduction to Astrophysics, 3rd year undergraduate course (Fall semesters),

**2014-2019** Astrophysics, 4th year undergraduate course (Spring semesters).

Teaching assistant:

**2017-2024** Undergraduate course: "Stellar Astrophysics" (Fall semesters),

**2015-2021** Undergraduate course: "High Energy Astrophysics" (Fall semesters),

**2015-2019** Undergraduate course: "Star systems and galaxies" (Spring semesters),

**2015-2018** Graduate course: "High Energy Astrophysics" (Spring semesters),

**2014-2021** Tutoring undergraduate theses in High Energy Astrophysics

## OBSERVATIONS

**07/2011** Skinakas Observatory: 5 nights, M31 nova monitoring (photometry, spectroscopy)

## PUBLICATIONS

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Journals (More [here](#).)

1. **Boula S.** and Nathanail A. Secondary black hole-induced magnetic reconnection in OJ 287: Implications for X-ray and radio emission Astronomy and Astrophysics, Volume 696, April 2025
2. **Boula S.**, Niemiec J. Amano T. and Kobzar O. Quasi-perpendicular shocks of galaxy clusters in hybrid kinetic simulations. The structure of the shocks Astronomy and Astrophysics, Volume 684, April 2024
3. **Boula S.**, and Mastichiadis A. Astronomy and Astrophysics, Volume 657, January 2022
4. Mastichiadis A. , Florou I., Kefala E., **Boula S.** and Petropoulou M., Monthly Notices of the Royal Astronomical Society, Volume 495, Issue 2, June 2020
5. **Boula S.**, Kazanas D. and Mastichiadis A., Monthly Notices of the Royal Astronomical Society: Letters, Volume 482, Issue 1, 1 January 2019
6. **Boula S.**, Petropoulou M. and Mastichiadis A., Galaxies, 7, 2019

### Proceedings

1. **Boula S.**, Niemiec J., Amano T. and Kobzar O., PoS(ICRC2023)409
2. **Boula S.** PoS(ICRC2023)890
3. SST-1M collaboration, PoS(ICRC2023)741
4. SST-1M collaboration, PoS(ICRC2023)592
5. **Boula S.**, Mastichiadis A. and Kazanas D., Acta Phys. Pol. B Proc. Suppl. 15, 3-A12, 2022
6. **Boula S.**, Mastichiadis A.. and Kazanas D., PoS(ICRC2021)678
7. Batziou E., **Boula S.** et.al., PoS(ICRC2021)1388
8. **Boula S.**, Kazanas D. and Mastichiadis A., PoS(HEPRO VII)009

## CONFERENCES

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### Contributed talks (# 18)

Cluster 4, PLUTO Symposium 2024, IPELS-16, ICRC 2023, 16th Hellenic Astronomical Conference, 2023, 15th Conference of High Power Computer Users, 2023, COSPAR 2022, Epiphany 2022, ICRC 2021, 15th Hellenic Astronomical Conference, 2021, RATOP 2021, HEPRO VII, 2019, 14th Hellenic Astronomical Conference, 2019, 59th Cracow School of Theoretical Physics, 2019, eXtreme19, 2019, HAP Workshop | Monitoring the Non-thermal Universe, 2018, HAP Workshop | Monitoring the Non-thermal Universe, 2016, 2nd Summer School of Hellenic Astronomical Society, 2016

### Poster presentations (# 15)

Gamma 2024 (2), ICRC 2023, EAS 2023, Particle Astrophysics in Poland 2023, Polish-German WE Heraeus-Seminar, The Variable Multi-Messenger Sky, 2022, 14th International School for Space Simulations, 2022, Jets2021, Poster Exhibition of Royal Astronomical Society, 2020, 8th International Fermi Symposium, Baltimore, 2018, 13th Hellenic Astronomical Conference, 2017, EWASS 2016, ESO Workshop on Active Galactic Nuclei: What's in a Name?, 2016, 12th Hellenic Astronomical Conference, 2015

## ATTENDANCE

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### Conferences & Workshops

KICP Workshop, High-Energy Messengers, 2014, Workshop on Relativistic Plasma Astrophysics, Purdue University, 2014, HEPRO IV, 2013, The Role and the Origin of Magnetic Field in Astrophysics, RCAAM 2013

### Attendance of Schools

Foundations of Cosmic Ray Astrophysics, 2022, 59th Cracow School of Theoretical Physics, 2019, 2nd Summer School of Hellenic Astronomical Society, 2016, 5th Winter School National Observatory of Athens, 2014, 4th Winter School, "The XMM Newton Satellite," National Observatory of Athens, 2012

## INVITED SEMINARS

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1. DESY, 02/2025
2. MPIK, 01/2025
3. UoA, 12/2024
4. University of Białystok, 11/2023
5. Research Center for Astronomy and Applied Mathematics of the Academy of Athens, 06/2023
6. Institute of Astrophysics, FORTH, 12/2022
7. MPIfR Radio Astronomy/VLBI Group, Max Planck, 10/2022
8. Institute of Nuclear Physics, Polish Academy of Science, 01/2022
9. Research Center for Astronomy and Applied Mathematics of the Academy of Athens, 11/2019

## OTHER

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### Organizing

**2020-now** Co-founder of 2'science: Science Communication - Public Outreach Team

**2015-now** Interactive programs concerning Astrophysics, Astronomy, and Space Physics for students and adults in Greece

**2015-2021** High Energy Astrophysics group meetings, NKUA

**2013-2021** Friday astrophysics meetings in Astrophysics, Astronomy and Mechanics section, NKUA

### Local Organizing Committee(#5)

"GRB Forum 2024", Athens, "Particle Astrophysics in Poland 2023", Krakow, "44th COSPAR Scientific Assembly", Athens, coordinator for the volunteers, 2022, "Zooming in on Star Formation," Nafplion, 2019, 2nd Summer School of Hellenic Astronomical Society, Athens, 2016,

### Volunteering

Conferences: 1. "EAS 2023", Krakow, 2. "EWASS 2016", Athens

Member of *Scouts of Greece*. Indicatively: 2023 Wood badge award, thesis: Gender equality

2007 Scout of Nation - Award from the President of Greece

2007-present Volunteer in crisis management(refugees, fireworks, floods)

## MEMBERSHIP

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Hellenic Astronomical Society (Hel.A.S.)

European Astronomical Society (E.A.S.)

High Energy Astrophysics Division (H.E.A.D.)

International Astronomical Union (I.A.U.)

Polish Astronomical Society (P.T.A.)