

Savvas Chanlaridis | Curriculum Vitae

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Updated: December 2022

Research Interests

Stellar structure and evolution, formation and evolution of compact objects, double neutron star binary systems, equation-of-state of neutron stars, pulsar astronomy, nuclear astrophysics (with a particular focus on nucleosynthesis in extreme astrophysical environments such as compact object mergers and core collapse supernovae).

Education

University of Crete <i>Ph.D. in Astrophysics</i>	Greece <i>present</i>
University of Bonn <i>M.Sc. in Astrophysics</i>	Germany <i>2019</i>
Aristotle University of Thessaloniki <i>B.Sc.(Hons) in Physics</i> Minored in Nuclear & Elementary Particle Physics	Greece <i>2016</i>

Certifications

Advanced Python with applications in Machine Learning <i>University of Aegean (MOOC), Credential ID: 2022_18466</i>	<i>Jul. 2022</i>
Data Science and Applied Machine Learning with Python <i>Mathesis@Crete University Press (MOOC)</i>	<i>Apr. 2022</i>

Funding

Employment

Institute of Astrophysics - FORTH <i>Scientific Personnel, Greece</i> Worked in the Stellar AfterLife and Transients group as a doctoral candidate.	<i>Mar. 2021 - present</i>
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Scholarship

Istituto Nazionale di Fisica Nucleare (INFN) <i>Erasmus exchange student, Italy</i> I secured an EU-funded scholarship to participate in an intensive exchange program on applications of nuclear technologies.	<i>2012</i>
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Travel Grants

Aristotle University of Thessaloniki <i>Participant, Greece</i>	<i>Nov. 2019</i>
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Travel grant to attend the workshop “Neutron Stars in the Gravitational Wave Era” at Universität Tübingen, Germany.

Bonn-Cologne Graduate School

Participant

Apr. 2019

Travel grant to participate in the PHAROS summer school on “multi-messenger Astrophysics” at Universität Jena, Germany.

South-West University “Neofit-Rilski”

Participant

Apr. 2019

Travel grant to participate in the 5th spring school on “advances in Nuclear Physics” at South-West University “Neofit-Rilski”, Bulgaria.

Research Experience

Institute of Astrophysics - FORTH | Stellar AfterLife & Transients Group

Doctoral candidate, Greece

Mar. 2021 – present

Project: Understanding the mass spectrum of neutron stars

Aristotle University of Thessaloniki | Gravitational Waves Group

Guest Researcher, Greece

Nov. 2019 – Nov. 2022

Project: Probing the effects of stellar wind of non-accreting SNe-Ia progenitors.

Argelander-Institut für Astronomie | Group of Stellar Astrophysics

Graduate Research Assistant, Germany

Oct. 2018 – Oct. 2019

Master Thesis research under the supervision of Dr. J. Antoniadis, and Prof. Dr. N. Langer.

Argelander-Institut für Astronomie | Group of Stellar Astrophysics

Graduate Intern, Germany

Apr. 2018 – Oct. 2018

Project: Evolution of ultra-stripped helium stars towards core collapse.

Aristotle University of Thessaloniki | Division of Nuclear & Elementary Particle Physics

Undergraduate Research Assistant, Greece

Apr. 2012 – Apr. 2013

Diploma Thesis research under the supervision of Dr. N. Servizoglou, and Prof. Dr. S. Stoulos.

Teaching Experience

University of Crete | Institute of Astrophysics - FORTH

Instructor, Greece

Sep. 2022 – Nov. 2022

Seminar: Analysis of Scientific Data with Python; I organized and taught an intensive program on scientific data analysis targeting undergraduate students.

University of Crete | Institute of Astrophysics - FORTH

Teaching Assistant, Greece

Feb. 2022 – Sep. 2022

Φ202: Introduction to Modern Physics II; Undergraduate introductory course to Special Theory of Relativity, Nuclear Physics, and Elementary Particle Physics.

University of Crete | Institute of Astrophysics - FORTH

Teaching Assistant, Greece

Sep. 2021 – Feb. 2022

Φ230: Astrophysics I; Undergraduate introductory course to Astrophysics.

Universität Bonn | Argelander-Institut für Astronomie

Teaching Assistant, Germany

Jul. 2018 – Oct. 2019

physics601: Radio-astronomical Observations; Graduate advanced lab course.

Publications

First or Second Author.....

Thermonuclear and Electron-Capture Supernovae from Stripped-Envelope Stars

S. Chanlaridis, J. Antoniadis, D.R. Aguilera-Dena et al.

Dec. 2022

A&A 668, A106, DOI: doi.org/10.1051/0004-6361/202243035, arXiv: 2201.00871

Type Ia supernovae from non-accreting progenitors

J. Antoniadis, S. Chanlaridis, G. Gräfener, and N. Langer

Jan. 2020

A&A 635, A72, DOI: doi.org/10.1051/0004-6361/201936991, arXiv: 1912.07608

Conference Abstracts.....

Establishment of local DRLs at Theageneio Cancer Hospital of Thessaloniki

S.G. Chanlaridis, M. Chatzimarkou, A. Makridou et al.

Sep. 2014

Physica Medica, 09/2014, 30(S1):126, DOI: dx.doi.org/10.1016/j.ejmp.2014.07.335

Contributed Presentations

Poster

SuperVirtual – From Common to Exotic Transients –

Nov. 2021

Talk

15th Conference of Hellenic Astronomical Society

Jul. 2021

Poster

European Astronomical Society

Jun. 2021

Annual Meeting

Seminar Talk

Aristotle University of Thessaloniki

Nov. 2019

Section of Astronomy, Astrophysics, & Celestial Mechanics

Poster

Max-Planck Institut für Radioastronomie

Aug. 2019

Fachbeirat

Poster

European Conference on Medical Physics

Sep. 2014

Tools & Technologies

Programming Languages.....

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|----------|-----------|
| - Python | - C++ |
| - Java | - Fortran |

Software.....

- | | |
|----------------------------------|---|
| - MESA 1D stellar evolution code | - SLURM & CONDOR cluster management systems |
| - Docker & Singularity | - LaTeX |

Training

University of Crete

Greece

Summer School

July 2022

Topic(s): AstroStatistics.

Universität Heidelberg

Germany (Virtual)

Summer School

September 2021

Topic(s): Stellar Ecosystems.

International Pulsar Timing Array (IPTA)

Netherlands (Virtual)

Workshop

June 2021

Topic(s): Neutron Stars in the Gravitational Wave Era.

Universität Tübingen

Germany

Workshop

November 2019

Topic(s): Neutron Stars in the Gravitational Wave Era.

Universität Jena

Summer School

Germany

April 2019

Topic(s): Multi-messenger Astrophysics.

Bonn-Cologne Graduate School (BCGS)

Summer School

Germany

August 2016

Topic(s): X-ray Astronomy, Challenging the Standard Model, Quantum Information

Istituto Nazionale di Fisica Nucleare (INFN)

Erasmus

Italy

March 2014

Topic(s): Medical Applications of Nuclear Technology & RAdiations (MANTRA), an activity of the Cooperation for Higher Education on Radiological & Nuclear Engineering (CHERNE) network.

University of Thessaly

Training Seminar

Greece

April 2013

Topic(s): Ionizing and non-ionizing radiations & radioprotection.

South-West University "Neofit-Rilski"

Spring School

Bulgaria

May 2012

Topic(s): Advances in Nuclear Physics.

Professional Associations

European Astronomical Society

Junior Member

2021 – present

Hellenic Astronomical Society

Junior Member

2021 – present

Outreach & Volunteering

"Open Nights at Skinakas Observatory"

Crete, Greece

Volunteer

2022 – present

"AstroNight for the public"

Chalkidiki, Greece

Organizer

2005 – 2016

1st Thessaloniki Science Festival

Thessaloniki, Greece

Ambassador

2015

Centre for Science & Technology Museum "NOESIS"

Thessaloniki, Greece

Volunteer

2011

Club of Friends of Astronomy

Thessaloniki, Greece

Volunteer

2008 – 2010

"Physics Partizani" Group

Thessaloniki, Greece

Volunteer

2008 – 2009