Savvas Chanlaridis

Curriculum Vitae

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

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

Certifications

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

Funding

Employment

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

Scholarship

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

Travel Grants

Nov. 2019	**Participant**, *Aristotle University of Thessaloniki*, Greece. Travel grant to attend the workshop "Neutron Stars in the Gravitational Wave Era" at Universität Tübingen, Germany.
Apr. 2019	**Participant**, *Bonn-Cologne Graduate School*. Travel grant to participate in the PHAROS summer school on "multi-messenger Astrophysics" at Universität Jena, Germany.

Apr. 2019	**Participant**, *South-West University "Neofit-Rilski"*. Travel grant to participate in the 5th spring school on "advances in Nuclear Physics" at South-West University "Neofit-Rilski", Bulgaria.

Research Experience

Mar. 2021 – present	**Doctoral candidate**, *Institute of Astrophysics - FORTH	Stellar AfterLife & Transients Group*, Greece. Project: Understanding the mass spectrum of neutron stars
Nov. 2019 – Nov. 2022	**Guest Researcher**, *Aristotle University of Thessaloniki	Gravitational Waves Group*, Greece. Project: Probing the effects of stellar wind of non-accreting SNe-Ia progenitors.
Oct. 2018 – Oct. 2019	**Graduate Research Assistant**, *Argelander-Institut für Astronomie	Group of Stellar Astrophysics*, Germany. Master Thesis research under the supervision of Dr. J. Antoniadis, and Prof. Dr. N. Langer.
Apr. 2018 – Oct. 2018	**Graduate Intern**, *Argelander-Institut für Astronomie	Group of Stellar Astrophysics*, Germany. Project: Evolution of ultra-stripped helium stars towards core collapse.
April 2012 – April 2013	**Undergraduate Research Assistant**, *Aristotle University of Thessaloniki	Division of Nuclear & Elementary Particle Physics*, Greece. Diploma Thesis research under the supervision of Dr. N. Servitzoglou, and Prof. Dr. S. Stoulos.

Teaching Experience

Sep. 2022 – Dec. 2022	**Instructor**, *University of Crete	Institute of Astrophysics - FORTH*, Greece. **ECL-MISC104**: Analysis of Scientific Data with Python; I organized and taught an intensive program on scientific data analysis targeting undergraduate students.
Sep. 2021 – Dec. 2022	**Teaching Assistant**, *University of Crete	Institute of Astrophysics - FORTH*, Greece. **Φ230**: Astrophysics I; Undergraduate introductory course to Astrophysics.
Feb. 2022 – Sep. 2022	**Teaching Assistant**, *University of Crete	Institute of Astrophysics - FORTH*, Greece. **Φ202**: Introduction to Modern Physics II; Undergraduate introductory course to Special Theory of Relativity, Nuclear Physics, and Elementary Particle Physics.
Jul. 2018 – Oct. 2019	**Teaching Assistant**, *Universität Bonn	Argelander-Institut für Astronomie*, Germany. **physics601**: Radio-astronomical Observations; Graduate advanced lab course.

Publications

First or Second Author

Dec. 2022	**S. Chanlaridis, J. Antoniadis, D.R. Aguilera-Dena et al.**, *Thermonuclear and Electron-Capture Supernovae from Stripped-Envelope Stars*. A&A 668, A106, DOI: doi.org/10.1051/0004-6361/202243035, arXiv: 2201.00871
Jan. 2020	**J. Antoniadis, S. Chanlaridis, G. Gräfener, and N. Langer**, *Type Ia supernovae from non-accreting progenitors*. A&A 635, A72, DOI: doi.org/10.1051/0004-6361/201936991, arXiv: 1912.07608

Conference Abstracts

Sep. 2014	**S.G. Chanlaridis, M. Chatzimarkou, A. Makridou et al.**, *Establishment of local DRLs at Theageneio Cancer Hospital of Thessaloniki*. Physica Medica, 09/2014, 30(S1):126, DOI: dx.doi.org/10.1016/j.ejmp.2014.07.335

Contributed Presentations

Nov. 2021	**SuperVirtual – From Common to Exotic Transients**, *Poster.*
Jul. 2021	**15th Conference of Hellenic Astronomical Society**, *Talk.*
Jun. 2021	**European Astronomical Society**, *Poster.* Annual Meeting
Nov. 2019	**Aristotle University of Thessaloniki**, *Seminar Talk.* Section of Astronomy, Astrophysics, & Celestial Mechanics
Aug. 2019	**Max-Planck Institut für Radioastronomie**, *Poster.* Fachbeirat
Sep. 2014	**European Conference on Medical Physics**, *Poster.*

Tools & Techonologies

Programming Languages

- Python   - C++
- Java   - Fortran

Software

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

Training

July 2022	**Summer School**, *University of Crete*, Greece. Topic(s): AstroStatistics.
September 2021	**Summer School**, *Universität Heidelberg*, Germany (Virtual). Topic(s): Stellar Ecosystems.
June 2021	**Workshop**, *International Pulsar Timing Array (IPTA)*, Netherlands (Virtual). Topic(s): Neutron Stars in the Gravitational Wave Era.
November 2019	**Workshop**, *Universität Tübingen*, Germany. Topic(s): Neutron Stars in the Gravitational Wave Era.
April 2019	**Summer School**, *Universität Jena*, Germany. Topic(s): Multi-messenger Astrophysics.
August 2016	**Summer School**, *Bonn-Cologne Graduate School (BCGS)*, Germany. Topic(s): X-ray Astronomy, Challenging the Standard Model, Quantum Information
March 2014	**Erasmus**, *Istituto Nazionale di Fisica Nucleare (INFN)*, Italy. Topic(s): Medical Applications of Nuclear Technology & RAdiations (MANTRA), an activity of the Cooperation for Higher Education on Radiological & Nuclear Engineering (CHERNE) network.
April 2013	**Training Seminar**, *University of Thessaly*, Greece. Topic(s): Ionizing and non-ionizing radiations & radioprotection.
May 2012	**Spring School**, *South-West University "Neofit-Rilski"*, Bulgaria. Topic(s): Advances in Nuclear Physics.

Professional Associations

2021 – present	**Junior Member**, *European Astronomical Society*.
2021 – present	**Junior Member**, *Hellenic Astronomical Society*.

Outreach & Volunteering

2022 – present	**Crete, Greece**, *"Open Nights at Skinakas Observatory"*, Volunteer.
2005 – 2016	**Chalkidiki, Greece**, *"AstroNight for the public"*, Organizer.
2015	**Thessaloniki, Greece**, *1st Thessaloniki Science Festival*, Ambassador.
2011	**Thessaloniki, Greece**, *Centre for Science & Technology Museum "NOESIS"*, Volunteer.
2008 – 2010	**Thessaloniki, Greece**, *Club of Friends of Astronomy*, Volunteer.
2008 – 2009	**Thessaloniki, Greece**, *"Physics Partizani" Group*, Volunteer.