

Tsantiri Artemis

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EDUCATION

- SEP 2020 - PRESENT **Michigan State University - Facility for Rare Isotope Beams**
Ph.D Candidate in Physics
Department of Physics and Astronomy, College of Natural Sciences

Ph.D Project: Reaction cross section measurements in inverse kinematics for the astrophysical γ -process.
Supervisor: Professor Artemisia Spyrou
- SEP 2014 - JUN 2020 **National Technical University of Athens**
Diploma (5-year continuous program) in Physics
Department of Physics, School of Applied Mathematical and Physical Sciences,
GPA: 8.23/10, top 5% in senior class, Very Good

Diploma Thesis: "*Measurement of the fission cross section of the $^{232}\text{Th}(n,f)$ reaction with micromegas detectors.*"
Supervisor: Professor Michael Kokkoris

WORK EXPERIENCE

- MAY 2021 - PRESENT **Michigan State University**
Research Assistant in Experimental Nuclear Astrophysics at the *Facility for Rare Isotope Beams (FRIB)*

Study the formation mechanisms of exotic nuclei in the cosmos - mainly focusing on the astrophysical γ -process.
- SEP - MAY 2021 **Michigan State University**
Teaching Assistant at the *Department of Physics & Astronomy*
- JUN - JUL 2019 **National Center for Scientific Research "Demokritos"**
Internee at the *Institute of Nuclear & Particle Physics*

Study of the newly installed BGO detector assembly. Review of the corresponding resolution function. Repairs in two BGO-crystal detector preamplifiers. Re-construction of a preamplifier electronic board (using EAGLE design and schematics software).
- 2016 - 2020 Home tutor (mathematics / physics) for Middle & High School Students

PUBLICATIONS

- [1] Cox, I. *et al*, Phys. Rev. Lett. 132, 152503, (2024) DOI: [10.1103/PhysRevLett.132.152503](https://doi.org/10.1103/PhysRevLett.132.152503)
- [2] Tsantiri, A. *et al*, Phys. Rev. C 107, 035808 (2023), DOI: [10.1103/PhysRevC.107.035808](https://doi.org/10.1103/PhysRevC.107.035808)
- [3] Pogliano F. *et al*, Phys. Rev. C 107, 064614 (2023) DOI: [10.1103/PhysRevC.107.064614](https://doi.org/10.1103/PhysRevC.107.064614)
- [4] Palmisano-Kyle, A., *et al*, Phys. Rev. C 105, 065804 (2022), DOI: [10.1103/PhysRevC.105.065804](https://doi.org/10.1103/PhysRevC.105.065804)
- [5] Michalopoulou, V., *et al*, The European Physical Journal A, 57, 277 (2021), DOI: [10.1140/epja/s10050-021-00590-w](https://doi.org/10.1140/epja/s10050-021-00590-w)

AWARDS AND FELLOWSHIPS

2024	<i>IReNA Visiting Fellowship</i> of \$4000 to visit the University of Victoria, BC, Canada to work with P. Denisenkov on impact studies
2021	<i>Award for best Teaching Assistant</i> in upper level courses - MSU
2014	<i>Award for excellence</i> in high-school courses

CONFERENCE PRESENTATIONS

DEC 2023	Contributed Talk - <i>2023 Fall Meeting of the APS Division of Nuclear Physics and the Physical Society of Japan</i> , Waikoloa Village, Hawaii
NOV 2023	Contributed Talk - <i>INPART TALYS School</i> , Kruger, South Africa
MAR 2023	Contributed Talk - <i>18th Russbach School on Nuclear Astrophysics</i> , Rußbach am Paß Gschütt, Austria
OCT 2022	Contributed Talk - <i>2022 Fall Meeting of the APS Division of Nuclear Physics</i> , New Orleans, USA
MAY 2022	Poster Presentation - <i>JINA-CEE Frontiers in Nuclear Astrophysics Meeting</i> , Notre Dame, USA
MAY 2022	Contributed Talk - <i>Junior Researcher Workshop - JINA-CEE Frontiers in Nuclear Astrophysics</i> , Notre Dame, USA
MAY 2022	Poster Presentation - <i>8th Workshop on Level Density and Gamma Strength</i> , Oslo, Norway

TECHNICAL SKILLS

NUCLEAR PHYSICS:	GEANT4, SRIM, NEUSDESK, SACALC3
NUCLEAR ASTROPHYSICS:	Network Calculations using MESA, NUCNET TOOLS, WEBNUCLEO
PROGRAMMING:	UNIX SCRIPTING, C++, PYTHON, JAVA, FORTRAN
DATA ANALYSIS:	ROOT, PYROOT, ORIGIN, MICROSOFT EXCEL
ELECTRONICS:	PSPICE, EAGLE
DOCUMENTS & PRESENTATIONS:	L ^A T _E X, MICROSOFT OFFICE (WORD, POWERPOINT)

VOLUNTEER EXPERIENCE

MARCH PRESENT	2024	-	<i>Student's Representative on IReNA Steering Committee</i> Organize and support the IReNA Young Researchers Organization, act as a point of contact to bring suggestions or concerns from junior researchers to the IReNA Steering Committee, participate on the monthly meetings of the IReNA Steering Committee
NOV 2023			CEU Mentor at <i>2023 Fall Meeting of the APS Division of Nuclear Physics and the Physical Society of Japan</i> Mentor five CEU (Conference Undergraduate Experience) students through their first conference presentations
JUN 2023			Activity Leader at <i>NS³ Nuclear Science Summer School 2023</i> - MSU Lead high school student lab on radiation detection
MAY 2023			Co-Chair of Organizing Committee of <i>CeNAM Frontiers in Nuclear Astrophysics 2023 Meeting</i> - FRIB MSU
2022 - PRESENT			Webmaster for Graduate Student Organization <i>Physics Graduate Organization (PGO)</i> - MSU
2022 - PRESENT			Webmaster for Graduate Student Organization <i>Facility for Rare Isotope Beams Graduate Organization (FRIBGO)</i> - FRIB MSU
2022 - 2023			Space Committee for Graduate Student Organization <i>Facility for Rare Isotope Beams Graduate Organization (FRIBGO)</i> - FRIB MSU Management of Graduate Student Office Spaces
MAY 2022			Activity Leader at <i>NS³ Nuclear Science Summer School 2022</i> - MSU
APR 2022			Volunteer at <i>FRIB Countdown Event</i> - FRIB MSU
2021 - PRESENT			Tour guide at the <i>Facility for Rare Isotope Beams (FRIB)</i>
2021 - 2022			Webmaster for Graduate Student Organization <i>Women and Minorities in Physical Sciences (WaMPS)</i> - MSU Organization of Events promoting Women in Physics

LANGUAGES

ENGLISH:	Excellent - TOEFL (09/21/2019): 113/120 - <i>Certificate of Proficiency in English</i> - The University of Michigan (11/24/2012)
FRENCH:	Very Good - <i>Certificat Pratique de Langue Française</i> - Paris Sorbonne B2 (07/08/2011)
GREEK:	Native speaker