

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] Spyrou, A. *et al*, Phys. Rev. Lett. 132, 202701, (2024) DOI: [10.1103/PhysRevLett.132.202701](https://doi.org/10.1103/PhysRevLett.132.202701)
- [2] Cox, I. *et al*, Phys. Rev. Lett. 132, 152503, (2024) DOI: [10.1103/PhysRevLett.132.152503](https://doi.org/10.1103/PhysRevLett.132.152503)
- [3] Tsantiri, A. *et al*, Phys. Rev. C 107, 035808 (2023), DOI: [10.1103/PhysRevC.107.035808](https://doi.org/10.1103/PhysRevC.107.035808)
- [4] Pogliano F. *et al*, Phys. Rev. C 107, 064614 (2023) DOI: [10.1103/PhysRevC.107.064614](https://doi.org/10.1103/PhysRevC.107.064614)
- [5] 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)
- [6] 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>Second Price Oral Presentation</i> in Student/Postdoc competition at the 14 th International Conference on Nucleus-Nucleus Collisions (NN2024)
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

AUG 2024	Contributed Talk - 14 th International Conference on Nucleus-Nucleus Collisions (NN2024), Whistler, BC, Canada
JUN 2024	Contributed Talk - 2024 CeNAM Frontiers in Nuclear Astrophysics Meeting, Notre Dame
DEC 2023	Contributed Talk - 2023 Fall Meeting of the APS Division of Nuclear Physics and the Physical Society of Japan, Waikoloa Village, Hawaii
NOV 2023	Contributed Talk - INPART TALYS School, Kruger, South Africa
MAR 2023	Contributed Talk - 18th Russbach School on Nuclear Astrophysics, Rußbach am Paß Gschütt, Austria
OCT 2022	Contributed Talk - 2022 Fall Meeting of the APS Division of Nuclear Physics, New Orleans, USA
MAY 2022	Poster Presentation - JINA-CEE Frontiers in Nuclear Astrophysics Meeting, Notre Dame, USA
MAY 2022	Contributed Talk - Junior Researcher Workshop - JINA-CEE Frontiers in Nuclear Astrophysics Meeting, Notre Dame, USA
MAY 2022	Poster Presentation - 8 th Workshop on Level Density and Gamma Strength, 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

JUN 2024 - PRESENT	<i>Executive Committee Member of IReNA Blog</i> Create and manage the blog website, edit and post writers' contributions
MARCH 2024 - PRESENT	<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	<i>CEU Mentor at 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	<i>Activity Leader at NS³ Nuclear Science Summer School 2023 - MSU</i> Lead high school student lab on radiation detection
MAY 2023	<i>Co-Chair of Organizing Committee of CeNAM Frontiers in Nuclear Astrophysics 2023 Meeting - FRIB MSU</i>
2022 - PRESENT	<i>Webmaster for Graduate Student Organization</i> <i>Physics Graduate Organization (PGO) - MSU</i>
2022 - 2024	<i>Webmaster for Graduate Student Organization</i> <i>Facility for Rare Isotope Beams Graduate Organization (FRIBGO) - FRIB MSU</i>
2022 - 2023	<i>Space Committee for Graduate Student Organization</i> <i>Facility for Rare Isotope Beams Graduate Organization (FRIBGO) - FRIB MSU</i> Management of Graduate Student Office Spaces
MAY 2022	<i>Activity Leader at NS³ Nuclear Science Summer School 2022 - MSU</i>
APR 2022	<i>Volunteer at FRIB Countdown Event - FRIB MSU</i>
2021 - PRESENT	<i>Tour guide at the Facility for Rare Isotope Beams (FRIB)</i>
2021 - 2022	<i>Webmaster for Graduate Student Organization</i> <i>Women and Minorities in Physical Sciences (WaMPS) - MSU</i> Organization of Events promoting Women in Physics

LANGUAGES

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