

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

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| 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

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| 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

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| 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

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| 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

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| 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 |