

EDUCATION	Department of Physics, Ankara University <i>B.Sc. in Physics (Honors)</i> • Advisor: Assoc. Prof. Sinan Kuday • Research area: Inflationary Cosmology	Ankara, Turkey 2022 - 2026 (<i>expected</i>)
	Faculty of Physics and Applied Informatics, University of Lodz <i>Exchange academic semester within Erasmus+ program</i>	Lodz, Poland 2023 - 2024
RESEARCH INTERESTS	I am an early career researcher in Inflationary Cosmology and $f(R)$ gravity. I am interested in the very early universe; the fraction of a second after the Big Bang. <ul style="list-style-type: none">• I am actively working on projects in Inflationary cosmology and the Hubble tension.• I am a researcher at the COST Actions: CA21106: Cosmic WISPer, and CA21136: CosmoVerse.• Some of my present and past collaborators: Nilay Bostan, Anish Ghoshal, Qaisar Shafi, Andrew L. Miller, Antonio Racioppi, Christian Dioguardi, Maria Giovanna Dainotti, Biagio De Simone, Herman Marshall, Giovanni Montani, and Kazunori Kohri.	
PUBLICATIONS	<ol style="list-style-type: none">1. Nilay Bostan and Rafid H. Dejarah. Minimally coupled β-exponential inflation with an R^2 term in the Palatini formulation, [2409.10398]. <i>Under review</i>, 2024.2. † Maria Giovanna Dainotti, Biagio De Simone, Anargha Mondal, Kazunori Kohri, Augusto César Caligula do Espírito Santo Pedreira, Angel Bashyal, Rafid H. Dejarah, Shigehiro Nagataki, Giovanni Montani, Anurag Singh, Ayush Garg, Mudit Parakh, Nissim Fraija, Rohit Mandal, Hrikhes Sarkar, Tasneem Jareen, Kinshuk Jarial, and Gaetano Lambiase. A New Master Supernovae Ia sample and the investigation of the H_0 tension, [2501.11772]. <i>Under review</i>, 2025.	
All authors are listed alphabetically following the high-energy physics convention, except †		
SKILLS	Languages: English (<i>native</i>), Arabic (<i>bilingual</i>), Turkish (<i>proficient</i>), Polish (<i>intermediate</i>). Programming: Computational analysis for cosmological calculations. Python, C++, Mathematica, \LaTeX , Linux, Ubuntu, HTML, SQL, and Git.	
INVITED TALKS	<ol style="list-style-type: none">1. COST Action 21106, Journal Club, “Minimally coupled β-exponential inflation with an R^2 term in the Palatini formulation”. 20252. Laurentian University, The Canadian Astroparticle Physics Summer Student Talk (CASST) competition, “Further analysis in metric-affine $f(R)$ Gravity”. 20243. Ankara University, the European Day, “The Erasmus+ experience”. 2024	
AWARDS AND HONORS	<ul style="list-style-type: none">• Erasmus+ grant• YTB-IsDB Scholarship• First Place at intelligent Classes Competition, Ar-Rasheed Schools	September 2023 August 2021 March 2020

- SUMMER SCHOOLS AND MEETINGS
- † COST Action CA21106: 3rd Training School. September 2025
 - † 3rd General Meeting of COST Action: CA21106. September 2025
 - 2nd General Meeting of COST Action COSMIC WISPers (CA21106). September 2024
 - **Ankara University**, Generalized Geometry in Physics and T-duality. August 2024
 - **Laurentian University**, The Canadian Astroparticle Physics Summer Student Talk competition. August 2024
 - **Perimeter Institute** Celestial Holography Summer School 2024. July 2024
 - **Perimeter Institute**, 50 Years of Horndeski Gravity: Exploring Modified Gravity. July 2024
- † Upcoming
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- CONFERENCES AND PROGRAMS
- **SOKENDAI**, SOKENDAI Asian Winter School 2025. February 2025
 - **Simon Fraser University**, Dark Interactions 2024. October 2024
 - **Banff International Research Station**, Detection and Analysis of Gravitational Waves in the Era of Multi-Messenger Astronomy: From Mathematical Modeling to Machine Learning. November 2024
 - **Perimeter Institute**, Causalworlds conference. September 2024
 - **YTB**, The International Student Internship Program. August 2024
 - **Max Planck Institute**, International Max Planck Research School (IMPRS) 16th Conference. March 2023
 - **NASA**, NASA Artemis Generation Program. October - November 2021
 - **University of Padova**, XIX International Workshop on Neutrino Telescopes. February 2021
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- REFERENCES
- Dr. Hasan Maridi**
 Research Fellow at Nuclear Physics Group, Department of Physics and Astronomy, the University of Manchester, M13 9PL Manchester, UK (Cara fellowship). Room 4.13 Schuster Laboratory.