Aysu Ece Saricaoglu

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Education

Education	
Graduate Degree Washington University in St. Louis, Ph.D. in Physics St. Louis, MO, USA	08 2023 – Present
• GPA: 3,61	
• Advisor : Dr. Tansu Daylan	
Bachelors Degree Bilkent University , Phyiscs Minor Certificate Bilkent University , Music Performance (Piano) Ankara, Turkey	09 2018 – 06 2023
• Major GPA: 3,26 Minor GPA: 3,34	
High School Degree YKP Science School Izmir, Turkey	09 2014 – 06 2018
• GPA:96,69/100	
\bullet Ranked 4237th (among 2.5 million, 0.2%) on university entrance exam (YKS))	
Experience	
Undergraduate Researcher, Search for transiting exoplanets in X-Rays	06 2022 – 06 2023
• Using Chandra X-Ray Telescope data and CIAO software, working on developing a possible exoplanet transits	detection algorithm for
Undergraduate Researcher, Erciyes Neutrino Research Group (Fermilab Associate)	06 2022 – 10 2023
• Taking shifts and monitoring for the ANNIE neutrino detector, improving skills wit getting training to be an expert for Bad-channel studies in the NOvA neutrino expe	
Internship, Sabanci University Program for Undergraduate Research (PURE)	07 2021 – 09 2021
• X-ray detector development for CubeSats and healthcare applications.	
Awards and Honors	
Honor Student Bilkent University	2019 – 2023
Scholarship Comprehensive Scholarship of Bilkent University	2018 – 2023
Scholarship National Undergraduate Scholarship Program (2205) by TUBITAK (Scientific and Technological Research Council of Turkey)	2018 – 2023
Teaching Experience	
Teaching Assistant Laboratory Assistant in Instruction, Washington University in St. Louis	01 2024 – 12 2024
• Physics I Laboratory (PHYS 191L), Physics II Laboratory (PHYS 192L)	
Projects	
Analysis Pipeline	AstroMusers/luxetenebrae

Simulation and Analysis Pipeline

• Stellar binary evolution and analysis pipeline based on COMPAS

AstroMusers/RubinsForge

• Pipeline to process and simulate LSST data based on LENSTRONOMY, LSST SCIENCE PIPELINES and SKYFIELD.

Simulation and Analysis Pipeline

AstroMusers/captus

• Dynamical black hole capture by main sequence/neutron stars based on N-body integrator REBOUND.

Presentations

Poster Presentation **Impact of LEO Satellite Streaks on LSST Strong Lenses detection and modelling**

01 2025

- iPoster Session: Strong and Weak Gravitational Lensing
- 245th American Astronomical Society Meeting