

MAKSAT SATYBALDIEV

ASTROPHYSICIST

MOSCOW INSTITUTE OF PHYSICS AND TECHNOLOGY (MIPT)

SPACE RESEARCH INSTITUTE (IKI)

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EXPERIENCE

2020 *to present* **Research Assistant** | Space Research Institute of the Russian Academy of Sciences (IKI)
Laboratory of Fundamental and Applied X-ray Astrophysics

EDUCATION

2021 *to* 2023 **M.S. Applied Mathematics and Physics**
Moscow Institute of Physics and Technology, Russia
General Astrophysics, General Relativity, Experimental Methods in Astrophysics,
Thesis advised by Mereminskiy I. A. "Spectral and temporal analysis of hard X-ray flares
from wind-fed Supergiant X-ray Binaries" (preliminary)

2017 *to* 2021 **B.S. Applied Mathematics and Physics**
Moscow Institute of Physics and Technology, Russia
General Physics, Calculus, Linear Algebra, Theoretical Physics, PDE, Numerical Methods
Thesis advised by Mereminskiy I. A. "Periodic activity of X-ray bursters"

PUBLICATIONS

Winter 2022 **Satybaldiev M.N.**, Mereminskiy I.A. "Spectral and timing analysis of SRG/ART-XC
observation of Supergiant Fast X-ray Transient IGR 16195-4945" (will be submitted soon to
Astronomy Letters)

CONFERENCES, WORKSHOPS & EXTRA COURSES

June 2022 **Code/Astro Workshop**, Caltech
Software Engineering Workshop for Astronomy
Participant

April 2022 **XIX Young Scientists Conference**, Space Research Institute (IKI)
"SRG/ART-XC observation and analysis of X-ray transient IGR J16195-4945"
Satybaldiev M. N., Mereminskiy I. A. (talk)

April 2021 **XVIII Young Scientists Conference**, Space Research Institute (IKI)
"Periodic activity of X-ray bursters"
Satybaldiev M. N., Mereminskiy I. A. (talk)

August 2020 **Data-driven Astronomy**, Coursera
Python, SQL, Machine Learning applied to Astronomy

TECHNICAL EXPERIENCE

Professional Telescope Experience **SRG/ART-XC, Swift/BAT, Swift/XRT, NuSTAR, NICER, RXTE**
Extracting and using spectral and time data.

Computing skills

Programming: Python, C
Utilities: Astropy, Git, Numpy, Stingray, XSPEC, DS9
Presentation: L^AT_EX, Matplotlib, Adobe Photoshop
OS: macOS, Linux, Windows

TEACHING

Fall 2022

Teaching Assistant of Space Physics Department introductory course for sophomore students
Moscow Institute of Physics and Technology

January 2020

Intensive course in Olympiad-level Physics for high school students
School-Lyceum #61, Bishkek, Kyrgyzstan

OTHER INFORMATION

*Biographical
Information*

Citizenship: Kyrgyz Republic (Kyrgyzstan)

Spoken Languages: Kyrgyz (native), Russian (native), English (advanced, IELTS score 7), French (basic)

Birth: 30 September 1999 in Bishkek, Kyrgyzstan

Social Activities

Scientific Olympiad Organizer
Organization of scientific olympiads for high school students (2017-2021)

Election Observer
2020 Kyrgyz parliamentary election

This CV was last updated on October 30, 2022.