

# MAKSAT SATYBALDIEV

ASTROPHYSICIST  
MOSCOW INSTITUTE OF PHYSICS AND TECHNOLOGY (MIPT)  
SPACE RESEARCH INSTITUTE (IKI)

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<https://maksatsat.github.io>

## EXPERIENCE

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

## EDUCATION

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2021 *to* 2023      **M.S. Applied Mathematics and Physics**  
**Moscow Institute of Physics and Technology**, Russia  
GPA: 4.84/5.00 (3.76/4.00 U.S.scale)  
General Astrophysics, General Relativity, Experimental Methods in Astrophysics  
Thesis advised by Mereminskiy I. A. "Study of X-ray flares from wind-fed X-ray Binaries"  
(preliminary)

2017 *to* 2021      **B.S. Applied Mathematics and Physics**  
**Moscow Institute of Physics and Technology**, Russia  
GPA: 4.48/5.00 (3.46/4.00 U.S.scale)  
General Physics, Calculus, Linear Algebra, Theoretical Physics, PDE, Numerical  
Methods  
Thesis advised by Mereminskiy I. A. "Periodic activity of X-ray bursters"

## PUBLICATIONS

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March 2023  
(expected)      **Satybaldiev M.N.**, Mereminskiy I.A., Lutovinov A.A., Semena A.A., Shtykovsky  
A.E. "Spectral and temporal analysis of SRG/ART-XC observation of Supergiant  
Fast X-ray Transient IGR 16195-4945" (will be submitted to Astronomy Letters)

## CONFERENCES, WORKSHOPS, SEMINARS & EXTRA COURSES

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December 2022      **High Energy Astrophysics Today and Tomorrow**, Space Research Institute (IKI)  
"Spectral and temporal analysis of SRG/ART-XC observation of Supergiant Fast  
X-ray Transient IGR 16195-494" (poster)

November 2022      **High Energy Astrophysics Department Seminar**, Space Research Institute (IKI)  
"Spectral and timing analysis of SRG/ART-XC observation of Supergiant Fast X-ray  
Transient IGR 16195-494" (talk)

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)

<i>April 2021</i>	<b>XVIII Young Scientists Conference</b> , Space Research Institute (IKI) "Periodic activity of X-ray bursters" <b>Satybaldiev M. N.</b> , Mereminskiy I. A. (talk)
<i>August 2020</i>	<b>Data-driven Astronomy</b> , Coursera Python, SQL, Machine Learning applied to Astronomy

## TECHNICAL EXPERIENCE

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<i>Professional Telescope Experience</i>	<b>SRG/ART-XC, Swift/BAT, Swift/XRT, NuSTAR, NICER, RXTE</b> Extracting and using spectral and time data.
<i>Computing skills</i>	<b>Programming:</b> Python, C <b>Utilities:</b> Astropy, Git, Numpy, Stingray, XSPEC, DS9 <b>Presentation:</b> L <sup>A</sup> T <sub>E</sub> X, Matplotlib, Adobe Photoshop <b>OS:</b> macOS, Linux, Windows

## TEACHING

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<i>Fall 2022</i>	<b>Teaching Assistant of Space Physics Department introductory course for sophomore students</b> Moscow Institute of Physics and Technology
<i>January 2020</i>	<b>Intensive course in Olympiad-level Physics for high school students</b> School-Lyceum #61, Bishkek, Kyrgyzstan

## OTHER INFORMATION

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<i>Biographical Information</i>	<b>Citizenship:</b> Kyrgyz Republic (Kyrgyzstan)  <b>Spoken Languages:</b> Kyrgyz (native), Russian (native), English (advanced, IELTS score 7), French (basic)  <b>Birth:</b> 30 September 1999 in Bishkek, Kyrgyzstan
<i>Social Activities</i>	<b>Scientific Olympiad Organizer</b> Organization of scientific olympiads for high school students (2017-2021)  <b>Election Observer</b> 2020 Kyrgyz parliamentary election

*This CV was last updated on February 19, 2023.*