

# MAKSAT SATYBALDIEV

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

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## 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: 4.88/5.00 (3.94/4.00 U.S.scale)  
Thesis advised by I. A. Mereminskiy "Study of X-ray flares from the wind-fed X-ray Binaries"

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)  
Thesis advised by I. A. Mereminskiy "Periodic activity of the X-ray bursters"

## PUBLICATIONS

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

## AWARDS & SCHOLARSHIPS

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April 2023      **Best presentation award winner**, 65th MIPT Conference

Spring 2023      **Scholarship** for excellent academic achievements, MIPT

2017 *to* 2023      **State Academic Scholarship** for bachelor and master students at MIPT

## CONFERENCES, WORKSHOPS, SEMINARS & EXTRA COURSES

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July 2023      **Physics of Neutron Stars**, St. Petersburg

April 2023      **XX Young Scientists Conference**, Space Research Institute (IKI)  
"Flares from the wind-fed X-ray binaries with red and blue supergiants"  
**M. N. Satybaldiev**, I. A. Mereminskiy (talk)

<i>April 2023</i>	<b>65th MIPT All-Russian Scientific Conference in honor of the 115th anniversary of L.D. Landau</b> , Moscow Institute of Physics and Technology "Flares from the wind-fed X-ray binaries with red and blue supergiants" <b>M. N. Satybaldiev</b> , I. A. Mereminskiy (talk)
<i>December 2022</i>	<b>High Energy Astrophysics Today and Tomorrow</b> , Space Research Institute (IKI) "Spectral and temporal analysis of the SRG/ART-XC observation of the Supergiant Fast X-ray Transient IGR 16195-494" (poster)
<i>November 2022</i>	<b>High Energy Astrophysics Department Seminar</b> , Space Research Institute (IKI) "Spectral and timing analysis of the SRG/ART-XC observation of the Supergiant Fast X-ray Transient IGR 16195-494" (talk)
<i>June 2022</i>	<b>Code/Astro Workshop</b> , Caltech Software Engineering Workshop for Astronomy (participant)
<i>April 2022</i>	<b>XIX Young Scientists Conference</b> , Space Research Institute (IKI) "SRG/ART-XC observation and analysis of the X-ray transient IGR J16195-4945" <b>M. N. Satybaldiev</b> , I. A. Mereminskiy (talk)
<i>April 2021</i>	<b>XVIII Young Scientists Conference</b> , Space Research Institute (IKI) "Periodic activity of the X-ray bursters" <b>M. N. Satybaldiev</b> , I. A. Mereminskiy (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</b> , Space Physics Department introductory course for sophomore students Moscow Institute of Physics and Technology
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January 2020

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

OTHER INFORMATION

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*Biographical  
Information*

**Citizenship:** Kyrgyz Republic (Kyrgyzstan)

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

**Birth:** 30 September 1999, 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 May 31, 2023.*