

MAKSAT SATYBALDIEV

ASTROPHYSICIST

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<https://maksatsat.github.io>

EXPERIENCE

- 2023 *to present* **PhD Candidate** | Norwegian University of Science and Technology
Department of Physics
- 2020 *to* 2023 **Research Assistant** | Space Research Institute of the Russian Academy of Sciences (IKI)
Laboratory of Fundamental and Applied X-ray Astrophysics

EDUCATION

- 2023 *to present* **PhD in Astrophysics**
Norwegian University of Science and Technology, Trondheim, Norway
Supervisors: Prof. Manuel Linares and Dr. Vittoria Vecchiotti
- 2021 *to* 2023 **M.S. Applied Mathematics and Physics**
Moscow Institute of Physics and Technology, Russia
GPA: 4.88/5.00
Thesis: "*Study of X-ray flares from the wind-fed X-ray binaries*"
Supervisor: Dr. Ilya Mereminskiy
- 2017 *to* 2021 **B.S. Applied Mathematics and Physics**
Moscow Institute of Physics and Technology, Russia
GPA: 4.48/5.00
Thesis: "*Periodic activity of the X-ray bursters*"
Supervisor: Dr. Ilya Mereminskiy

PUBLICATIONS

- June 2023 **M. N. Satybaldiev**, I. A. Mereminskiy, A. A. Lutovinov, D. I. Karasev,
A. N. Semena, A. E. Shtykovsky, "*Spectral and Temporal Analysis of the Supergiant
Fast X-ray Transient IGR J16195-4945 with SRG/ART-XC*", **Astronomy Letter**, 49,
5, 249-256 (2023)

AWARDS & SCHOLARSHIPS

- 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

- July 2023* **Physics of Neutron Stars**, St. Petersburg
 "Spectral and Temporal Analysis of the Supergiant Fast X-ray Transient IGR J16195-4945 with SRG/ART-XC"
 M. N. Satybaldiev, I. A. Mereminskiy, A. A. Lutovinov, D. I. Karasev,
 A. N. Semena, A. E. Shtykovsky (poster)
- 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)
- April 2023* **65th MIPT All-Russian Scientific Conference in honor of the 115th anniversary of L.D. Landau**, Moscow Institute of Physics and Technology
 "Flares from the wind-fed X-ray binaries with red and blue supergiants"
 M. N. Satybaldiev, I. A. Mereminskiy (talk)
- December 2022* **High Energy Astrophysics Today and Tomorrow**, 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)
- November 2022* **High Energy Astrophysics Department Seminar**, 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)
- 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 the X-ray transient IGR J16195-4945"
 M. N. Satybaldiev, I. A. Mereminskiy (talk)
- April 2021* **XVIII Young Scientists Conference**, Space Research Institute (IKI)
 "Periodic activity of the X-ray bursters"
 M. N. Satybaldiev, I. A. Mereminskiy (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, 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, 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 17, 2023.