

**Full name:** Aytaj Iskandarova

**Date of birth:** February 19, 1999

**Birthplace:** Guba, Azerbaijan

**Contact address:** AZ 1073, Yasamal district,  
A.Alasgarov Street 12A, Baku, Azerbaijan  
Republic

**Phone number:** +(994 51) 699 04 32

**E-mail:** aytajiskandarova@gmail.com



## **EDUCATION:**

- 2016 - 2020 - Physics ( Teaching in English), Baku State University (Bachelor degree – 90 GPA)
- 2020 - 2022 – Astrophysics, National Academy of Sciences of Azerbaijan (Master degree – 98 GPA, Top GPA graduate of ANAS)
- 2023 - present – “Astrophysics and Stellar Astronomy”, Shamakhy Astrophysical Observatory (ShAO) named after N.Tusi (Ph.D)

## **WORK EXPERIENCE:**

- 2021-2022 - Senior laboratory assistant at ShAO
- 2022 - present – Junior researcher at the Department of the Stellar Atmosphere Physics and Magnetism, ShAO
- 2021 - present - Deputy Chairman of the Council of Young Scientists and Specialists of ShAO
- 2022-present - Editor in Wikipedia group of the ShAO
- 2022- present – Events Manager, The Society of Azerbaijani Physics Students (SAPS)
- 2023-present - Astronomical database expert, ShAO
- 2023-2024 – Lecturer (Astrophysics), Baku State University
- 2024-present – Lecturer (Physics), Khazar University

**Scientific degrees:** Master degree (code 249389 - Astrophysics)

*Theme of the Dissertation:* “Photometric variability of the Wolf-Rayet type star HD 191765” Supervisor: Associate professor J.N.Rustamov

**Current position:** Junior researcher at ShAO and Deputy Chairman of the Council of Young Scientists and Specialists of ShAO

### **RESEARCH FIELD (KEYWORDS):**

- Wolf-Rayet type stars
- Close Binary Star Systems
- X-ray Binaries
- High mass X-ray Binaries
- Photometric investigations
- Rentgen Astronomy
- Compact objects

**Theme of the Ph.D Dissertation:** “Photometric study of selected high mass X-ray sources in optical region”

**COMPUTER SKILLS:** Microsoft 365, Linux app, Maple, Origin, PyRAF, IRAF, MaxIm DL, AstrolmageJ, Aladin and other astronomical data analyzing programs

**LANGUAGES:** English – B2, Russian – A1, Turkish – C1, Azerbaijan-native speaker

### **INTERNATIONAL EXPERIENCE:**

- Estonia, Tartu Observatory of Tartu University, 3 months (August 2023 – October 2023), 2023
- Estonia, Tartu Observatory of Tartu University, 2 months (March 2024 – April 2024), 2024

## CONFERENCES, WORKSHOPS AND EVENTS:

- Fourth Regional Scientific Conference of Students, BSU, Baku, Azerbaijan, May, 2019.
- XXI National Scientific Conference of Masters, SSU, Sumgait, Azerbaijan, April, 2021.
- VI International Scientific Conference of Young Researchers, BEU, Baku, Azerbaijan, April, 2022.
- VII International Scientific Conference of Young Researchers, BEU, Baku, Azerbaijan, April, 2023.
- Innovative ideas camp of Young scientists, Shaki, Azerbaijan, June, 2023.
- Youth Wikipedia Camp 2023, Lankaran, Azerbaijan, August, 2023.
- “Stellar Spectroscopy Workshop”, EU Horizon Europe Twinning project EXOHOST (101079231) and UK Research and Innovation (10051045), Tõravere, Estonia, September, 2023.
- Second scientific conference of the Tartu Observatory, Tõravere, Estonia, March, 2024.
- 2nd International Conference: Alive Universe - from Planets to Galaxies, Shamakhy, Azerbaijan, September, 2024.

## PROJECTS AND GRANTS:

- “From class to SPACE” funded by Ministry of Science and Education of Republic of Azerbaijan, 2022-2023
- "Physics of Extremely Massive Stars"/ Marie Skłodowska-Curie grant project funded by the European Union Research and Innovation Program HORIZON 2020, 2018-2024

## SEMINARS:

- “Astronomy in Azerbaijan from yesterday to today”, UNEC, 2022
- “Photometric variability of Wolf-Rayet type stars”, ShAO, 2022
- “Photometric investigation of Wolf-Rayet type star HD191765”, TO, 2023

- “Investigation of high mass X-ray binaries”, TO, 2024
- “Introduction to X-ray astronomy”, ShAO, 2024

*Numerous popular lectures on astronomy at various universities, schools, and other institutions. Also, information-specific talks for high-ranking foreign guests visiting ShAO.*

## **MAIN PUBLICATIONS:**

J.N. Rustamov, A.R. Iskandarova, The spectral investigation of star HD 206267, Materials of the Fourth Regional Scientific Conference of Students, 2019, Vol. 1, No. 1, p. 65.

A.R. Iskandarova, Unusual photometric variability of WR 134=HD 191765 star , Materials of the 21st National Scientific Conference of Masters, 2021, Vol.1, No.3, p.17.

J.N.Rustamov, Sh.A.Aghayeva, A.R.Iskandarova, Short-term photometric variability of Wolf-Raye-type star WR 134, Materials of VI International Scientific Conference of Young Researchers, 2022, No.2, p.24.

J.N.Rustamov, A.F.ABdulkarimova, A.R. Iskandarova, Comparative study of the distribution of O-type and Wolf-Rayet type stars in our Galaxy, Materials of VII International Scientific Conference of Young Researchers, 2023, p.67.

J.N.Rustamov, A.R.Iskandarova, E.A.Gurbanov, U.J. Poladova, Photometric observations of high mass x-ray binary HD226868, Azerbaijan Astronomical Journal, 2024.