

Ismayilov Nariman Zeynalabdi



Deputy Director of N.Tusi Shamakhy Astrophysical Observatory,
Ministry of Sciences and Education of Azerbaijan (ShAO MSEA)

Physics-mathematics Dr.of Sciences, Professor

Total number of citations ~ 480, index H=9 ADS, 12 GS

AZ 5626, settl.Y.Mamedaliyev, ShAO, Shamakhy, Azerbaijan

AZ 1143, Huseyn Cavid avenue, 117, Baku, Azerbaijan (Baku city Departament of ShAO)

PERSONAL DATA

ORCID ID: <https://orcid.org/my-orcid?orcid=0000-0002-5307-4295>

Web of Science Researcher: <https://www.webofscience.com/wos/author/record/C-3260-2019>

Scopus Author ID: <https://www.scopus.com/authid/detail.uri?authorId=6603723452>

Date of birth: 21 October 1955, nationality: azerbaijani;

Finished - 1974–№ 1 extending physical-mathematical secondary school (currently Gymnasium №1) in Baku, Azerbaijan;

1979 – Faculty of Physics, Azerbaijan State University (currently: Baku State University), Baku, Azerbaijan;

1979-1982– A teacher of secondary schools in Imishli and Shamakhy regions;

1985 –1988 Ph.D. student of the Faculty of Physics of Moscow State University (n. after Shternberg State Astronomy Institute MSU).

1994-1998 doctorate (postdoc) the Faculty of Physics of Moscow State University (n. after Shternberg State Astronomy Institute of Lomonosov Moscow State University).

1982-2007 – Shamakhy Astrophysical Observatory –from Senior Research Assistant to Main Scientific researcher; stellar spectroscopy and photometry specialist, Observational technique experience.

Associate researcher in Research Center of the Khazar University, Baku, Azerbaijan

Associate researcher in Nakhchivan State University, Nakhchivan, Azerbaijan

2004 - A lecturer of Baku State University, Department of Astrophysics.

2007 –Professor of Baku State University.

2011 - Leading Scientist of Shamakhy Astrophysical Observatory

2016- Head of Dpt “Galaxies and starformation processes” in ShAO of ANAS

2021-to now Deputy director of ShAO

2026-Research Center of the Khazar University, Baku, Azerbaijan

EDUCATION AND ACADEMIC DEGREES OBTAINED

1974–1979 – Faculty of Physics, Azerbaijan State University (currently: Baku State University), Baku, Azerbaijan;

1994 –1997 Ph.D. student of the Faculty of Physics of Moscow State University (n. after Shternberg State Astronomy Institute MSU).

1990 - Candidate of Physical and Mathematical Sciences (equivalent Ph.D.) on Astrophysics and Radioastronomy, conferred upon by the High Attestation Committee of the USSR , Moscow, Russia. Theme of the Dissertation: “The spectral and photometrical researches of young binary stars”;

2004 - Doctor of Physical and Mathematical Sciences on Astrophysics and Radio astronomy, conferred upon by the High Attestation Committee under the President of the Azerbaijan Republic, Baku, Azerbaijan. Theme of the doctoral Dissertation: “Spectral and Photometric

Investigations of Young and Chemical Peculiar stars”.

2002 -2007 Senior Scientific Researcher on Astrophysics and Radioastronomy, conferred upon by the High Attestation Commission under the President of the Azerbaijan Republic.

2011- Professor in Astrophysics, conferred upon by the High Attestation Commission under the President of the Azerbaijan Republic.

TEACHING COURSES:

Practical astronomy, astrophysics, celestial mechanics, relativistic objects, observational equipment's and methods, astronomy and separate sections of physics.

Today have more than 280 scientific publications, one monograph about researches of young stars and two textbook about the extra-atmospheric astronomy and practical astrophysics for the university students:

1. Ismailov N.Z. Non-stationary processes in the young stars atmospheres, Baku, 2002, 205 p.
2. Ismailov N.Z. Extra atmosphere astronomy. BSU , Baku, 2009, 200 p.
3. Practical Astrophysics, Baku, 2011, 200 p.

LANGUAGES:

Azerbaijani –native

Russian –excellent

English – good

Turkish – good

MEMBERSHIP:

Member of the International Astronomical Union (1997),

Member of the European Astronomical Society (1999),

Member of the Euro–Asian Astronomical Society (1994),

Member of the Editorial Board, Scientific Journal “Circular of Shamakha Astrophysical Observatory”, Baku, Azerbaijan,

Member of the Editorial Board, Scientific Journal “Azerbaijan Astronomical Journal”, Baku,

Member of the Editorial Board, Scientific Journal “Astronomy and Astrophysics Transection”, Russia-Great Britain.

Member of the Editorial Board, Scientific Journal ”Odessa astronomical publications”, Ukraine

SPECIALISTS TRAINING

PhD students-5

Philosophy doctors - 6

Masters – 6

RESEARCH INTERESTS

The Stellar Astrophysics, Spectral and photometric investigation of Pre-Main sequence stars. Ae/Be Herbig stars, circumstellar disks, emission spectrum. Spectroscopy, Photometric light-curve analysis methods.

New type photometric classification. Spectral energy distributions of young stars. Modelling of SED curves. WTTS type stars, new methods in astronomical observations. Extrasolar planets.

Active Galactic Nucleus. Starformation. Astronomical equipment.

INTERNATIONAL CONFERENCES, SYMPOSIUMS

- 1986 No 5 workshops AI-Union Symposium on the binary stars (S.Peterburg).
- 1987 XIX AI-Union Variable Stars (Odessa).
- 1989 AI-Union conference on stars with envelopes (S.Peterburg)
- 1990 Ae/Be Herbig and Be stars ai-union conference (Alma-Ata)
- 1991 International conference on binary stars (Estonia, Tiravere)
- 1999 International conference of Variable stars for memory devoted of Kukarkin (Moscow).
- 2000 Devoted 800 years memory of N.Tusi International conference (Tebritz, Iran).
- 2001 Tusi school in ShAO conferences (1999, 2000, 2001).
- 2001 International conference on Variable stars (Odessa).
- 2002 International conference on Astronomy and Astrophysics (BSU, Baku).
- 2002 International collaboration on Astronomy, (Moscow).
- 2003 80 year memory of H.Aliyev's conference (Pirkuli).
- 2005 Astronomiya-2005 conference (Moscow).
- 2006 IAU conference (Praga).v 2008 International conference "XXI century, Astronomy and Astrophysics" Astro,.(Moscow).
- 2008 International conf."Simeiz-100" (Ukraina, Krym).
- 2009 The Galactic Halo and Galaxy formation (Russia, Zvenigorod).
- 2009 Features of sources in the environment of young stars Materials of Intern.konf. Kukarkin-100 (Russia, Moscow)
- 2009 Materials of Intern.confer. Kirkhoff-150 (Ukraina, Krym).
- 2010 Variably stars (Odessa).
- 2011 St.Peterburg. 4-8 July JENAM 2011, S5, S.Peterburg,
- 2012 XXVIII General Assembly, IAU symposiums S2, S3, 20-31 Beijing, Chine August
- 2013 Cosmic magnetic fields:Legacy of A.B.Severny. International Symposium. Nauchny, Crimea, Sept. 2-6. AU
- 2014 12th Asia-Pacific Regional IAU Meeting, August 18-22, Daejeon, Korea, p.91..
- 2014 EWASS Congress, Swiss, Geneva
- 2015 International Conf. From Asteroseismology to Space Weather", 06-08 july Baku, Azerbaijan.
- 2016 The B[e] Phenomenon: Forty Years of Studies"Prague, Czech Republic, 27 June - 1 July
- 2017 International conference Stars, Planets and magnetic fields. Russia, 15-18 Sep.
- 2019 International conference Physics of stars and planets, Shamakhy, 16-20 Sep.
- 2019 10th workshop of OPTIKON Gaia Tranzient Alerts, 18-29 Dec, Italy
- 2019 International Scientific Conference "Physics of stars and planets:atmosphere, activity, magnetic fields", Shamakhy, September 16-20.
- 2021 ICNAS-2021, 10-12 September 2021, Turkiye, Erzurum University.
- 2022 International Conference Alive Universe - from Planets to Galaxies, Shamakhy, 12-14 October
- 2024 International Conference Alive Universe - from Planets to Galaxies, Shamakhy, 23-26 September
- 2024 International Conference "Hot Stars", Almaty, Kazakhstan, 14-16 October/
- 2024 All-Russian Astronomical Conference "Modern Astronomy: from the Early Universe to Exoplanets and Black Holes", August 25-31, Russia, Zelenchuk, SAO.
- 2025 All-Russian Astronomical Conference. Stellar Physics in the Era of Multiwavelength Observations. St.Peterburg, 22-26 September.
- 2026 Physics of Young Stars and Starformation. St.Peterburg, 20-22 May.

INTERNATIONAL AND DOMESTIC GRANTS, PROGRAMS

International Funds of C.Soros grant for Science Support program of Former Soviet Union countries in 1993.

Funds of American Astronomical Society for Science Support program of Former Soviet Union countries in 1995.

Science Development Foundation under the President of Azerbaijan Republic 2011

Research grant of the world Academy of Sciences TWAS , 2011

Research Project of National Academy of Sciences, 2015

Science Development Foundation under the President of Azerbaijan Republic (AZ-RUS) 2018

A LIST OF SOME PUBLICATIONS FOR LAST 3 YEARS

1. Ismailov, N. Z.; Alyshov, S. A. ; Ismailova, Sh. K. ; Huseynova, F. S. Modified ShAO Spectrograph for Low-Resolution Spectra. 2023, Astronomy Reports, 67, Issue 10, p.1056-1063
2. Ismailov, N. Z.; Pogodin, M. A.; Kholtygin, A. F.; Adigozalzade, H. N.; Bashirova, U. Z. Structural-Kinematic Features of Gas Environment of Unusual Herbig Ae Star HD 179218. I. Rapid Spectral Variability. 2024, Astrophysical Bulletin, 79, Issue 3, pp. 464-472.
3. Hussenot-Desenonges, T. et al. Multiband analyses of the bright GRB 230812B and the associated SN2023pel. 2024, MNRAS 530, 1H
4. Järvinen, S. P.; Hubrig, S.; Küker, M.; et al. First snapshot of a magnetosphere around a Herbig Ae/Be star, 2025 Astronomy and Astrophysics 696, 155-167
5. Ismailov, N. Z.; Pogodin, M. A.; Kholtygin, A. F.; Adigozalzade, H. N.; Structural and Kinematic Features of the Gaseous Envelope of the Unusual Herbig Ae Star HD 179218 II. Long-term Spectral and Photometric Variability. 2025 Astrophysical Bulletin 80, 14-21.
6. Adigozalzade, H. N. ; Ismailov, N. Z.; Valiyev, U. S. et al. Herbig AeBe stars with low infrared excess, 2025, Advances in Space Research, 76, 3, 1854-1870
7. Adigozalzade, Hemayil; Jarvinen, Silva; Hubrig, Svetlana; Bashirova, Ulviyya; Ismailov, Nariman. Spectral Variability of Herbig Ae Star V1295 Aquila. 2025, Galaxies 13, 56A.
8. Adigozalzade, H. N.; Ismailov, N. Z.; Bashirova, U. Z.; Alishov, S. A.; Spectral Variability of the Star HD 141569A, 2026. Research in Astronomy and Astrophysics 26, Issue 3, id.035003, 11 pp.
9. Järvinen, S. P.; Hubrig, S.; Schöller, M.; Ilyin, I.; Adigozalzade, H. N.; Ismailov, N. Z.; Bashirova, U. Z.; Alishov, S. A. Detection of a large-scale organized 2 kG order magnetic field in the Herbig Ae star HD 179218. 2026, A&A, 710, 13J