

# Curriculum Vitae

**Last name:** Shubina

**First Name:** Olena

**Place of birth:** Lozova, Kharkiv region, Ukraine

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## **Positions held:**

September 2009 – June 2013: Bachelor student at Astronomy and Space Physics Department of Taras Shevchenko National University of Kyiv. The title of thesis: “*Analysis of spectrum of comet C/2009 P1 (Garradd) in optical wavelength region*” (research advisor: Dr. Korsun P.).

September 2013 – June 2015: Master student at Astronomy and Space Physics Department of Taras Shevchenko National University of Kyiv. The title of thesis: “*Properties of dust and gas of shortperiodic comet 103P/Hartley-2*” (research advisor: Dr. Ivanova O.).

November 2015 – October 2018: Postgraduate student at Main Astronomical Observatory of National Academy of Sciences of Ukraine (research advisor: Dr. Ivanova O.).

January 2016 – October 2018: engineer at Laboratory for Physics of Minor Solar System Bodies, Main Astronomical Observatory of National Academy of Sciences of Ukraine (Kyiv, Ukraine).

November 2018 – December 2019: Junior scientist at Laboratory for Physics of Minor Solar System Bodies, Main Astronomical Observatory of National Academy of Sciences of Ukraine (Kyiv, Ukraine).

January 2020 – 2022: researcher at Laboratory for Physics of Minor Solar System Bodies, Main Astronomical Observatory of National Academy of Sciences of Ukraine (Kyiv, Ukraine).

January 2020 – March 2022: researcher at Laboratory for Physics of Minor Solar System Bodies, Main Astronomical Observatory of National Academy of Sciences of Ukraine (Kyiv, Ukraine).

April 2022 – present: researcher at Department of Interplanetary Matter, Astronomical Institute Slovak Academy of Sciences (Slovak Republik).

## **Research interests:**

Small Solar System body: comets: spectroscopic, photometric and polarimetric investigation.

## **Additional scientific activities:**

2013 – present: organization of the annual international Young Scientists' Conference on Astronomy and Space Physics (member of LOC, secretary) (National Taras Shevchenko University of Kyiv, Ukraine)

2019 – 2021 organization of international scientific conference “Astronomy in Ukraine: from archaeo-astronomy to high-energy astrophysics”, Main Astronomical Observatory of the National Academy of Sciences of Ukraine, (member of LOC) (Kyiv, Ukraine)

2021 – present: a member of the hanging committee of the Junior Academy of Sciences of Ukraine (section Astronomy and astrophysics) 2018 – present: Member of the International Astronomical Union

## Participation in national and international projects, grants, studies, etc.:

2017: National Scholar Programme of the Slovak Republic — SAIA (Astronomical Institute of Slovak Academy of Sciences).

2017 – 2019: Ukrainian-Slovak Joint Research Project “Physical characteristics of comets, asteroids, and planetary satellites based on optical spectrum researches” (one of executors).

2020 – 2022: Grant of the National Research Foundation of Ukraine (№ 2020.02/0228) (one of executors).

2022 – 2025: individual grand from Government Office of the Slovak Republic within NextGenerationEU programme under project No. 09I03-03-V01-00001.

## Publications:

1. **O. Shubina**, P. Korsun, Yu. Ivashchenko Low-resolution spectrum of comet C/2004 Q2 (Machholz), *Advances in Astronomy and Space Physics*, V. 2, P. 173-176, 2012.
2. **O. Shubina**, I. Kulyk, P. Korsun, Ya. Romanjuk Photometry of distant active comet C/2010 S1 (LINEAR), *Advances in Astronomy and Space Physics*, V. 4, P. 38-41, 2014.
3. **O. Shubina**, P. Korsun, V. Afanasiev The spectrum of comet C/2009 P1 (Garradd) in optical wavelength region, (in RUS), *Kinematics and physics of celestial bodies*, V. 30 №6, P. 27-41, 2014.
4. O. Ivanova, **O. Shubina**, A. Moiseev, V. Afanasiev Polarimetric and spectroscopic observations of a dynamically new comet C/2012 J1 (Catalina), *Astrophysical Bulletin*, V. 70, №3, P. 349-354, 2015.
5. N. Kiselev, **O. Shubina**, S. Velichko, K. Jockers, V. Rosenbush, and S. Kikuchi (eds.); *Compilation of Comet Polarimetry from Published and Unpublished Sources*, urn:nasa:pds:compil-comet:polarimetry::1.0, NASA Planetary Data System, 2017.
6. O. Ivanova, E. Zubko, G. Videen, M. Mommert, J. L. Hora, Z. Seman Krišandová, J. Svoreň, A. Novichonok, S. Borysenko, **O. Shubina** Colour variations of Comet C/2013 UQ4 (Catalina), *MNRAS*, V. 469, №3, P. 2695-2703, 2017.
7. **O. Shubina**, N. Borisov, O. Ivanova, and V. Rosenbush Spectrum of short-periodic comet 2P/Encke in the apparition of 2003. *Kinematics and Physics of Celestial Bodies*, V. 34, I. 4, P. 67-80, 2018
8. Cseh B., Fedurco M., Komzik R. M., Mikolajczyk P., Murphy-Glaysher F., Pribulla T., and **Shubina O.** Application of broadening functions to eclipsing binaries and planetary transits, *Contributions of the Astronomical Observatory Skalnaté Pleso*, V. 49, I. 3, P. 556-560, 2019.
9. V. Rosenbush, O. Ivanova, V. Kleshchonok, N. Kiselev, V. Afanasiev, **O. Shubina**, D. Petrov Comet 2P/Encke in apparitions of 2013 and 2017: I. Imaging photometry and long-slit spectroscopy. *Icarus*, V. 348, article id. 113767, 2020.
10. N. Kiselev, V. Rosenbush, O. Ivanova, L. Kolokolova, D. Petrov, V. Kleshchonok, V. Afanasiev, **O. Shubina** Comet 2P/Encke in apparition of 2017: II. Polarization and color. *Icarus*, V. 348, article id. 113768, 2020.
11. Y. Kuznyetsova, Ya. Pavlenko, I. Kulyk, O. Zakhozhay, P. Korsun, S. Borysenko, V. Krushevskaya, **O. Shubina**, M. Andreev Signatures of Exocomet Activity Around Stars at Different Evolutionary Stages. *Odessa Astronomical Publications*, V. 33, P. 133, 2020.

12. **O. Shubina**, N. Borisov, V. Rosenbush, O. Ivanova Spectra of comet C/2002 T7(LINEAR). *Advances in Astronomy and Space Physics*, V. 10, I. 2, P. 43-47, 2020.
13. Y. V. Pavlenko, **O. S. Shubina**, I. V. Kulyk, Y. G. Kuznyetsova, O. V. Zakhozhay, P. P. Korsun, S. A. Borysenko, V. M. Krushevska, M. V. Andreev Exocomet activity around the stars at different evolution stages: current issues. *Kinematika i fizika nebesnyh tel (Online)*, V. 37, I. 2, P. 19–40, 2021.
14. Ya. Pavlenko, I. Kulyk, **O. Shubina**, M. Vasylenko, D. Dobrycheva, and P. Korsun New exocomets of  $\beta$  Pic, *A&A*, V. 660, id.A49, 8 pp., 2022.
15. M. Vasylenko, Ya. Pavlenko, D. Dobrycheva, I. Kulyk, **O. Shubina**, and P. Korsun An algorithm for automatic identification of asymmetric transits in the TESS database, *Proceedings IAU Symposium No. 364*, pp. 264-266, Eds. A. Celletti, C. Galeş, C. Beaugé, and A. Lemaître, 2022.
16. **O. Shubina**, V. Kleshchonok, O. Ivanova, I. Luk'yanyk, and A. Baransky Photometry of comet 29P/Schwassmann-Wachmann 1 in 2012-2019, *Icarus*, V. 391, article id. 115340.