# Curriculum Vitae
# Mikhail Kovalev

## PERSONAL DATA

Address: Russia, Fryazino, Gorky 8-107, 141192
Born: 06.04.1991 in Kursk, USSR.
Citizenship: Russian federation.
Marital status: single.
Languages: Russian (native), English (fluent), German (intermediate B1.2)
E-mail: mikhail.kovalev@ynao.ac.cn, kovaljov@physics.msu.ru

## EDUCATION

PhD in astrophysics (November 2019)
Ruprecht Karl University of Heidelberg, Germany, 2015 - 2019
Specialist in astronomy (Master's degree equivalent, February 2014)
Specialization Celestial mechanics
Lomonosov Moscow State University, Russian Federation, 2008 - 2014
First school of Fryazino, class of physics and mathematics, 2004 – 2008
School 59 of Kursk 1998 - 2004

## AWARDS

3d place at All-Russian astronomical olympiad Novorossiysk, 7-13 April 2008
1t place at Moscow regional astronomical olympiad, January 2008

## COMPUTER SKILLS

Languages & Software:

- Advanced: Python
- Good: C, PHP, Fortran, MATLAB, JavaScript, Gnuplot, bash/shell scripting
- Basic: C++, Wolfram Mathematica, git (version control)
- Very basic: Perl

Markup languages: LaTex, HTML, MS office or its analogs (Good)
Operating Systems: Linux, Windows, MacOS

## DEPARTMENT SERVICE

Postdoctoral researcher at the Yunnan Observatories (YNAO),
Aug. 2020 - now
Postdoctoral researcher at the Max Planck Institute for Astronomy (MPIA),
Nov. 2019 - Apr. 2020
Doctoral researcher at the Max Planck Institute for Astronomy (MPIA),
Aug. 2015 - Nov. 2019
Visiting scientist at the Max Planck Institute for Astronomy (MPIA),
Oct. 2014 - Apr. 2015
Lead programmer at Celestial Mechanic department of Sternberg Astronomical Institute (SAI),
Feb. 2013 – Dec. 2013 (part-time job)
Summer practice at the Crimean Astrophysical Observatory (CrAO)
July 2011

Summer practice at the Special Astrophysical Observatory of the Russian Academy of Science
July 2010

## NON-ACADEMIC EXPERIENCE

Popularization of science as tour guide at the Moscow planetarium
Sept. 2011 – July 2015
Volunteering at Sternberg Astronomical Institute (SAI) event "100 hours of Astronomy"
Sept. 2010

## PUBLICATIONS (most important ones)

Emelyanov N. V., Kovalyov M. Yu. 2013
Analytical solution of the two-body problem against the cosmic vacuum background
2013MNRAS.429.3477E
Kovalev M, Bergemann M., Ting Y.-S., Rix H.-W., 2019
NLTE Chemical abundances in Galactic open and globular clusters
2019A&A...628A..54K
Kovalev M et al, 2022
TYC 2990-127-1: An Algol-type SB2 binary system of subgiant and red giant with a probable ongoing mass-transfer
2022MNRAS.513.4295K
Kovalev M., Chen X., Han Z. 2022
Detection of 2460 SB2 candidates in the LAMOST-MRS, using projected rotational velocities and a binary spectral model.
2022MNRAS.517..356K

## CONFERENCE CONTRIBUTION

Talk *"Modeling of infrared spectra of RSG in Perseus OB-1",* VFTS 11 meeting, 16-18.04.2018 Tenerife, Spain
Talk *"Analysis of the Gaia-ESO spectra using NLTE spectral models",* The Metal-Poor Galaxy, 2-7.07.2018 Ringberg, Germany
Talk *"NLTE analysis of stellar clusters",* CENAG 2018, 26-30.11.2018 Heidelberg, Germany
Talk *"Machine learning in spectroscopy",* STARPLANET 2019, 24-28.06.2019 Ringberg, Germany
Talk *"Machine learning in spectroscopy",* ML in Astro, Ringberg, 9-13.12.2019 Ringberg, Germany

## GRADUATE SCHOOLS

13-17 Nov. 2017 Winter school *"Applications of radiative transfer to stellar and planetary atmospheres",* La Laguna, Tenerife, Spain

## TEACHING

Feb. 2018 Tutor of Astronomical practicum, Heidelberg University

## HOBBIES

Astronomy, history, aviation, football, darts, literature, Android apps development.