

Dr. Natalia Lyskova



Personal Information

Date of Birth: April 16, 1988
Marital Status: Married, 1 child
Citizenship: Russian Federation
Languages: RU (native), EN (fluent)
DE (intermed.)
E-mail: nlyskova@hse.ru

Research Interests

- Properties and evolution of galaxies and galaxy clusters
- X-ray, optical and gravitational lensing studies of galaxies and galaxy clusters
- Mass determination techniques and mass proxies for elliptical galaxies and galaxy clusters
- Machine Learning and its applications in Astrophysics

Current position

2017 – present

Research Fellow

**National Research University
Higher School of Economics (HSE),
Faculty of Physics, Department of Space Physics**

Employment History

2014 – 2017

Postdoctoral Fellow

Max Planck Institute for Astrophysics (MPA)

Education

2015

**PhD defense at the Space Research Institute (IKI)
of Russian Academy of Sciences**

Dissertation: “Mass determination methods applicable to large surveys of elliptical galaxies”.

Advisors: Dr. Eugene Churazov, Prof. Dr. Rashid Sunyaev.

2010 – 2014

**International Max-Planck Research School (IMPRS)
on Astrophysics, MPA**

Dr. rer. nat. (PhD), magna cum laude

Dissertation: "Mass Determination of Elliptical Galaxies".
Advisors: Dr. Eugene Churazov, Prof. Dr. Rashid Sunyaev.

2005 – 2011 **Moscow Institute of Physics and Technology (MIPT)**

M.Sci. with honors

Thesis: "Gravitational Lensing of Relativistic Jets as a Tool of Investigating their Structure".

Advisors: Prof. Dr. Vladimir Lukash and Dr. Tatiana Larchenkova from the Lebedev Physical Institute.

Awards and fellowships

2010-2014 IMPRS fellowship (Garching/Munich, Germany)

2008-2009 MIPT Abramov-Frolov fellowship (Moscow, Russia)

Competitively obtained observing time

2 nights in 2011 optical telescope BTA-6 (Russia)

"Kinematics of elliptical galaxies", co-investigator

2 nights in 2012 optical telescope BTA-6 (Russia)

"Elliptical galaxies with X-ray halo", co-investigator