

Alexey Yushkov

PERSONAL INFORMATION

Born in Barnaul (USSR), 5 May 1973

email yushkov.alexey@gmail.com

researcherid A-6958-2013

orcid 0000-0001-5107-9116

phone +420 776673336

address FZU, Na Slovance 2, Praha 8, 18221, Czech Republic

position Senior researcher at the Institute of Physics of the CAS,
Coordinator of the Mass Composition task
of the Pierre Auger Observatory

WORK EXPERIENCE

2017–Present Senior researcher at the Institute of Physics of the CAS, Prague, Czech Republic

2016–2017 PostDoc, ITeDA, Buenos Aires, Argentina

2013–2016 PostDoc, University of Siegen, Germany

2010–2012 PostDoc, University of Santiago de Compostela, Spain

2007–2010 PostDoc, INFN, Naples, Italy

2006–2007 Assistant Professor, Altai State University, Barnaul, Russia

1996–2006 Assistant Lecturer, Altai State University, Barnaul, Russia

EDUCATION

2005 PhD in Theoretical Physics, Altai State University, Barnaul, Russia

1996 MSc in Physics, Altai State University, Barnaul, Russia

1994 BSc in Physics, Altai State University, Barnaul, Russia

TEACHING

1999–Present Theses supervision: 8 Bachelor, 6 Master , 2 PhD (co-supervision), 2 PhD (currently)

2022 Lectures on measurements of cosmic rays (11th IDPASC school, Olomouc)

2013–2014 Physics at the Pierre Auger Observatory (lectures, seminars)

2005–2007 Introduction to High-Energy Physics (lectures, seminars)

2005–2007 Scattering Theory (lectures, seminars)

2005–2007 Elements of Cosmology (lectures, seminars)

2003–2007 Stochastic Transport Theory (lectures, seminars)

2002–2007 Thermodynamics and Statistical Physics (lectures, seminars)

1996–2007 Programming languages (seminars)

LANGUAGE SKILLS

Russian (native) · English (fluent) · Spanish (fluent) · Italian (fluent)
Portuguese (fluent) · German (intermediate) · Czech (intermediate)

PARTICIPATION IN INTERNATIONAL PROJECTS

2007–2008	Wimp Argon Program (WArP)
2008–Present	Pierre Auger Observatory

INVITED TALKS

2014	Rencontre du Vietnam: Very High energy phenomena in the Universe, Quy Nhon, Vietnam · “Studies of UHECR composition and hadronic interactions at the Pierre Auger Observatory”
2015	Workshop on forward physics and high energy scattering at zero degree, Nagoya, Japan · “Latest results on mass composition and hadronic interactions of the UHECRs from the Pierre Auger Observatory”
2016	German Physical Society (DPG) meeting, Hamburg, Germany · “Mass composition of ultra-high energy cosmic rays: new results from the Pierre Auger Observatory and their astrophysical implications”
2016	19th International Symposium on Very High Energy Cosmic Ray Interactions, Moscow, Russia · “Recent results from the Pierre Auger Observatory on the mass composition and hadronic interactions of the ultra-high energy cosmic rays”
2018	International Symposium on Ultra-High-Energy Cosmic Rays, Paris, France · “Depth of maximum of air-shower profiles: testing the compatibility of measurements performed at the Pierre Auger Observatory and the Telescope Array experiment”
2020, 2022	9th & 11th International Conferences on New Frontiers in Physics, Kolymbari, Greece · “Highlights from the Pierre Auger Observatory”

PUBLICATIONS & CONFERENCES

37	h-index
129	Publications in refereed journals (6899 citations, Web of Science)
29	Conference proceedings
18	Participation in international conferences

SCIENTIFIC ACTIVITIES IN LAST 5 YEARS

2014–Present	Coordination of the mass composition task of the Pierre Auger Observatory
33	Publications in refereed journals (4151 citations, Web of Science)
6	Participation in international conferences
4	Talks on behalf of Auger at international conferences
5	Auger editorial boards: participation as task coordinator/proponent
6	Auger internal technical reports on mass composition/hadronic interactions
	Participation in Auger–Telescope Array working group on mass composition
	Creation of the reference simulation library of the Pierre Auger Observatory

April 14, 2023