Alexey Yushkov

PERSONAL INFORMATION

Born in Barnaul (USSR), 5 May 1973

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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: 9 Bachelor, 6 Master , 2 PhD (co-supervision), 3 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"
	PUBLICATONS & CONFERENCES
41	h-index
128	Publications in refereed journals (8900 citations, Web of Science)
29	Conference proceedings
20	Participation in international conferences
	SCIENTIFIC ACTIVITIES IN LAST 5 YEARS
2014–Present	Coordination of the mass composition task of the Pierre Auger Observatory
41	Publications in refereed journals
6	Participation in international conferences
6	Talks on behalf of Auger at international conferences
7	Auger editorial boards: participation as task coordinator/proponent
3	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

September 13, 2024