Sergey Senkin

	Personal info		
Full Name	Dr Sergey Senkin	Citizenship	Russian Federation
Date of Birth	January 5, 1988	Place of Birth	Arkalyk, Kazakhstan
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	Education		
2010-2014	PhD in Particle Physics, University of Bristol.		
2008-2010	MSc in Applied Physics and Maths, Moscow Institute of Physics and Technology.		
2004–2008	BSc in Applied Physics and Maths, Moscow Institute of Physics and Technology.		
	Experience		
	Research		
	Postdoctoral Researcher, LPC Clermont Ferrand, France. tt+X Dark Matter search with the ATLAS detector at the Large Hadron Collider, CERN		
_	Postdoctoral Researcher, University of Bristol, UK.		
Nov 2014	$t\bar{t}+X$ cross section measurement at the CMS detector at the Large Hadron Collider, CERN		
	PhD Student, University of Bristol, UK; CERN. Top quark mass and tt+X cross section measurement at CMS in the lepton+jets channel		
-	Research Assistant, Joint Institute for Nuclear Research, Dubna, Russia.		
Jun 2010			
	Research Assistant, Texas A&M University, College Station, TX, USA. Search for the lightest NMSSM Higgs boson $(h_1 \rightarrow a_1 a_1 \rightarrow 4\mu)$		
$\mathrm{Jun}\ 2007-$	Intern Student, Fermi National Accelerator Laboratory, Batavia, IL, USA.		
Sep 2007	Tevatron turn-by-turn optics fit using M	IAD-X	
	Service work		
Autumn 2016– present	Data Quality Leader, CERN, Geneva, Switzerland. Tile Hadronic Calorimeter perfomance and maintenance		
Summer 2011–	HLT Developer/Shifter, CERN, Geneva, Switzerland.		
Autumn 2012	Top trigger developer; ECAL Endcaps High-Voltage System on-call expert		
November 2008	CSC Shifter, CERN, LHC, CMS of Cathode Strip Chambers detector subsy		
	Teaching		
Spring 2011,	, , , , , , , , , , , , , , , , , , , ,		
Spring 2013	Tutorials in Maths and Particle Physics for L1 and L3 students		
Spring 2009	Teaching Assistant, $Texas A&M$	University, Colleg	ge Station, TX, USA.

Tutorials and labs for freshman General Physics course

Relevant training

- August 2012 CTEQ-Fermilab Summer School on QCD and Electroweak Phenomenology, Pontificia Universidad Católica del Perú, Lima, Peru.
- Autumn 2011 RAL HEP Summer School, Rutherford Appleton Laboratory, Abingdon, UK.
 Other experience
 - Dec 2014- Gap year for world travel.
 - July 2015 Explored the cultures and nature of China, Tibet, Nepal, India, Burma, Thailand, Indonesia, Vietnam, Australia, New Zealand, Canada and Cuba.

Languages

English Fluent French Basic

Russian Native

Computer skills

OS Linux/Unix, Mac OS X programming C/C++, python, R
scientific CMSSW, Geant4, Mathematica revision control Git, SVN, CVS
big data GRID, Hadoop typography LATEX, OpenOffice
IDE Eclipse other skills ROOT, SciPy/NumPy, matplotlib

Conference and workshop presentations

- 18 Jun 2013 Measurement of Global Distributions in Top Pair Events with CMS at the LHC, Postgraduate Conference, Bristol, UK
- 9 Apr 2013 Measurement of MET, HT and other global distributions in top pair events, IoP Conference, Liverpool, UK
- 8 Jan 2013 Measurement of MET, HT and other global distributions in top pair events, $CMS\ UK\ Collaboration\ meeting,\ Abingdon,\ UK$
- 14 Jun 2012 Validation study of Particle Flow Jet Energy Corrections for top paths, Trigger Studies Group meeting, CERN
- 15 May 2012 Jets at High-Level Trigger for Top Physics, *Top Quark PAG meeting, CERN*
- 12 Dec 2011 Using HitFit kinematic fitter in lepton+jets top mass analyses, Workshop on kinematic fitting, CERN

Honours and awards

- 2010 University of Bristol Postgraduate Research Scholarship
- 2008 TAMU Department of Physics Fellowship
- 2004 Yuri Gagarin award in "Study and scientific research" category

 Russian National Physics and Mathematics Olympiads (region round):
- 2004 1st diploma in physics and mathematics
- 2003 2nd diploma in physics, 3rd in mathematics

Scientific and other interests

- o Particle physics, search for new phenomena, data science, IT
- o Machine learning, AI, sustainable development, health physics, neuroscience
- Alpine skiing, mountain biking, scuba diving, surfing, travelling

Publications

- Google Scholar profile: https://goo.gl/JwwVa2
- INSPIRE HEP profile: http://inspirehep.net/author/profile/S.Senkin.1

Publications with significant contribution

- 2016 ATLAS Collaboration, "Search for new phenomena using events with b-jets and a pair of same-charge leptons in 3.2 fb⁻¹ of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector", ATLAS-CONF-2016-032, ATLAS conference note
- 2016 CMS Collaboration, "Measurement of the differential cross sections for top quark pair production as a function of kinematic event variables in pp collisions at $\sqrt{s} = 7$ and 8 TeV", DOI:10.1103/PhysRevD.94.052006, Phys. Rev. D
- 2012 CMS Collaboration, "Measurement of the top-quark mass in $t\bar{t}$ events with lepton+jets final states in pp collisions at $\sqrt{s}=7$ TeV", DOI:10.1007/JHEP12(2012)105, JHEP
- 2010 Alexander Belyaev, Jim Pivarski, Alexei Safonov, Sergey Senkin, and Aysen Tatarinov, "LHC discovery potential of the lightest NMSSM Higgs boson in $h_1 \rightarrow a_1 a_1 \rightarrow 4\mu$ channel", DOI:10.1103/PhysRevD.81.075021, Phys. Rev. D

Publications with contribution via the High-Level Trigger work

- 2013 CMS Collaboration, "Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC", DOI:10.1007/JHEP05(2013)145, JHEP
- 2013 CMS Collaboration, "Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 7$ TeV with lepton+jets final states", DOI:10.1016/j.physletb.2013.02.021, Physics Letters B
- 2013 CMS Collaboration, "Measurement of differential top-quark pair production cross sections in pp collisions at $\sqrt{s}=7$ TeV", DOI:10.1140/epjc/s10052-013-2339-4, European Physical Journal C
- 2013 CMS Collaboration, "Search for heavy quarks decaying into a top quark and a W or Z boson using lepton + jets events in pp collisions at $\sqrt{s} = 7$ TeV", DOI:10.1007/JHEP01(2013)154, JHEP
- 2012 CMS Collaboration, "Measurement of the top-quark mass in $t\bar{t}$ events with lepton+jets final states in pp collisions at $\sqrt{s}=7$ TeV", DOI:10.1007/JHEP12(2012)105, JHEP
- 2012 CMS Collaboration, "Search for pair produced fourth-generation up-type quarks in pp collisions at $\sqrt{s} = 7$ TeV with a lepton in the final state", DOI:10.1016/j.physletb.2012.10.038, $Physics\ Letters\ B$
- 2012 CMS Collaboration, "Inclusive and differential measurements of the $t\bar{t}$ charge asymmetry in proton-proton collisions at $\sqrt{s}=7$ TeV", DOI:10.1016/j.physletb.2012.09.028, $Physics\ Letters\ B$
- 2012 CMS Collaboration, "Search for charge-asymmetric production of W' bosons in top pair + jet events from pp collisions at $\sqrt{s}=7$ TeV", DOI:10.1016/j.physletb.2012.09.048, $Physics\ Letters\ B$
- 2012 CMS Collaboration, "Measurement of the charge asymmetry in top-quark pair production in proton-proton collisions at $\sqrt{s}=7$ TeV", DOI:10.1016/j.physletb.2012.01.078, $Physics\ Letters\ B$
- 2012 CMS Collaboration, "Measurement of the mass difference between top and antitop quarks", DOI:10.1007/JHEP06(2012)109, JHEP

Referees

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Last Updated

January 20, 2017 https://github.com/senkin/CV

Professor Joel Goldstein

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