Sergey Senkin

	Personal info		
	Dr Sergey Senkin January 5, 1988	-	Russian Federation Arkalyk, Kazakhstan
	Contact details		
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	Education		
2008-2010	PhD in Particle Physics, University of Bristol. MSc in Applied Physics and Maths, Moscow Institute of Physics and Technology. 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 . $t\bar{t}+X$ 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. CMS dimuon High-Level Trigger efficiency studies		
_	Research Assistant, Texas A&M University, College Station, TX, USA. Search for the lightest NMSSM Higgs boson $(h_1 \rightarrow a_1 a_1 \rightarrow 4\mu)$		
	Intern Student, Fermi National Accelerator Laboratory, Batavia, IL, USA. Tevatron turn-by-turn optics fit using MAD-X		
	Service work		
Autumn 2016– present	Data Quality Leader, CERN, General Tile Hadronic Calorimeter perfomance and	*	1.
Summer 2011– Autumn 2012	HLT Developer/Shifter , CERN, Geneva, Switzerland. Top trigger developer; ECAL Endcaps High-Voltage System on-call expert		
November 2008	CSC Shifter, CERN, LHC, CMS detector, Point 5, Cessy, France. Cathode Strip Chambers detector subsystem maintenance		
	Teaching		
Spring 2011, Spring 2013	Tutor , University of Bristol, School of Tutorials in Maths and Particle Physics for	,	•
Spring 2009	Teaching Assistant, Texas A&M U. Tutorials and labs for freshman General I	٠, -	ge Station, TX, USA.

Editorial activities

Jun 2017— **Invited Editorial Board member** for the ATLAS Collaboration publication present "Operation and performance of the ATLAS Tile Calorimeter in Run 1", CERN.

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 Working

Russian Native

Computer skills

Conference and workshop presentations

- 22 Jun 2017 A Complete Readout Chain of the ATLAS Tile Calorimeter for the HL-LHC: from FATALIC Front-End Electronics to Signal Reconstruction,

 ANIMMA conference, Liège, Belgium
- 5 May 2017 Search for New Physics with same-sign leptons, Top LHC France Conference, Marseille, France
- 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, $IoP\ Conference,\ Liverpool,\ UK$

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 Data science, particle physics, search for new phenomena, 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

Dr Romain Madar

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Last Updated

September 6, 2017 https://github.com/senkin/CV

Dr David Calvet

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