Sergey Senkin

	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, University of Bristol, UK. tt+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 Ac Tevatron turn-by-turn optics fit using M		ratory, Batavia, IL, USA.
	Service work		
	HLT Developer/Shifter, CERN, Top trigger developer; ECAL Endcaps I		
November 2008	CSC Shifter, CERN, LHC, CMS of Cathode Strip Chambers detector subsy	,	
	Teaching		
Spring 2011, Spring 2013	Tutor , University of Bristol, School Tutorials in Maths and Particle Physics	,	•
Spring 2009	Teaching Assistant , Texas A&M University, College Station, TX, USA. Tutorials and labs for freshman General Physics course		
March 2005	Physics Grader, Moscow Institute National Physics Olympiad for high sch	of Physics and	Technology, Dolgoprudny, Russia.

Personal info

Relevant training

- Autumn 2011 RAL HEP Summer School, Rutherford Appleton Laboratory, Abingdon, UK.
- August 2012 CTEQ-Fermilab Summer School on QCD and Electroweak Phenomenology, Pontificia Universidad Católica del Perú, Lima, Peru.

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 Spanish Basic

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

- 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 with significant contribution

- 2014 CMS Collaboration, "Measurement of missing transverse energy and other event-level observables in top pair events at $\sqrt{s}=8$ TeV", CMS-PAS-TOP-12-042, paper in collaboration wide review
- 2013 CMS Collaboration, "Measurement of missing transverse energy in top pair events at $\sqrt{s} = 7$ TeV", CMS-PAS-TOP-12-019, paper in collaboration wide review
- 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

Professor Greg Heath

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Last Updated

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October 9, 2015 https://github.com/senkin/CV

Professor Joel Goldstein

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