
PERSONAL INFO

Full Name	Sergey Senkin	Citizenship	Russian Federation
Date of Birth	January 5, 1988	Marital Status	Single

CONTACTS

Present Address	HH Wills Physics Laboratory, University of Bristol, Tyndall Avenue, Bristol BS8 1TL, UK
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EDUCATION

2010 – present	PhD in Particle Physics , <i>University of Bristol (expected in late 2013).</i>
2004 – 2010	MSc/BSc in Applied Physics/Math , <i>Moscow Institute of Physics and Technology.</i>

EXPERIENCE

Research

Autumn 2010 – present	PhD Student , <i>University of Bristol, Particle Physics Group, Bristol, UK.</i> Top quark mass and $t\bar{t}+X$ cross section measurement at CMS in lepton+jets channel
Autumn 2009 – Summer 2010	Research Assistant , <i>Joint Institute for Nuclear Research, CMS group, Dubna, Russia.</i> CMS muon High-Level Trigger efficiency studies
Autumn 2008 – Spring 2009	Research Assistant , <i>Texas A&M University, Department of Physics and Astronomy.</i> Search for the lightest NMSSM Higgs boson ($h_1 \rightarrow a_1 a_1 \rightarrow 4\mu$)
Summer 2007	Intern Student , <i>Fermi National Accelerator Laboratory, Batavia, IL, USA.</i> Tevatron turn-by-turn data fitting using MAD-X

Service work

Summer 2011 – Autumn 2012	Trigger Developer/Shifter , <i>CERN, LHC, CMS detector, Point 5, Cessy, France.</i> Top Trigger developer; ECAL Endcaps High-Voltage System on-call expert
November 2008	CSC Shifter , <i>CERN, LHC, CMS detector, Point 5, Cessy, France.</i> Cathode Strip Chambers subsystem maintenance

Teaching

Spring 2011, Spring 2013	Tutor , <i>University of Bristol, School of Physics.</i> Tutorials in Maths and Particle Physics for L1 and L3 students
Spring 2009	Teaching Assistant , <i>Texas A&M University, Department of Physics and Astronomy.</i> Tutorials and labs for freshman General Physics course
March 2005	Physics Grader , <i>National Physics Olympiad for high school students.</i>

LANGUAGES

English **Fluent**
Russian **Native**

TOEFL iBT score: 111 out of 120 (November 2009)

COMPUTER SKILLS

OS	Linux/Unix, Mac OS X	programming	C/C++, python
scientific	CMSSW, Geant4, Mad-X, ROOT, Mathematica	typography	L ^A T _E X, OpenOffice
		job-related	GRID

PUBLICATIONS

- 2013 *Measurement of missing transverse energy in top pair events*, CMS Collaboration
CMS-PAS-TOP-12-019, paper in preparation
- April 2010 *LHC discovery potential of the lightest NMSSM Higgs in $h_1 \rightarrow a_1 a_1 \rightarrow 4\mu$ channel*, with Alexander Belyaev, Jim Pivarski, Alexei Safonov and Aysen Tatarinov
arXiv:1002.1956, DOI:10.1103/PhysRevD.81.075021, Phys. Rev. D

ADDITIONAL PUBLICATIONS

- March 2013 *Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC*, CMS Collaboration
arXiv:1303.0763, submitted to JHEP
- March 2013 *Measurement of the t t -bar production cross section in pp collisions at with lepton + jets final states*, CMS Collaboration
arXiv:1212.6682, DOI:10.1016/j.physletb.2013.02.021, Physics Letters B
- March 2013 *Measurement of differential top-quark pair production cross sections in pp collisions at $\sqrt{s} = 7$ TeV*, CMS Collaboration
arXiv:1211.2220, DOI:10.1140/epjc/s10052-013-2339-4, European Physical Journal C
- January 2013 *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*, CMS Collaboration
arXiv:1210.7471, DOI:10.1007/JHEP01(2013)154, JHEP
- December 2012 *Measurement of the top-quark mass in t t -bar events with lepton+jets final states in pp collisions at $\sqrt{s} = 7$ TeV*, CMS Collaboration
arXiv:1209.2319, DOI:10.1007/JHEP12(2012)105, JHEP
- December 2012 *Search for pair produced fourth-generation up-type quarks in pp collisions at $\sqrt{s} = 7$ TeV with a lepton in the final state*, CMS Collaboration
arXiv:1209.0471, DOI:10.1016/j.physletb.2012.10.038, Physics Letters B
- October 2012 *Inclusive and differential measurements of the t t -bar charge asymmetry in proton-proton collisions at $\sqrt{s} = 7$ TeV*, CMS Collaboration
arXiv:1207.0065, DOI:10.1016/j.physletb.2012.09.028, Physics Letters B
- October 2012 *Search for charge-asymmetric production of W' bosons in top pair + jet events from pp collisions at $\sqrt{s} = 7$ TeV*, CMS Collaboration
arXiv:1206.3921, DOI:10.1016/j.physletb.2012.09.048, Physics Letters B
- March 2012 *Measurement of the charge asymmetry in top-quark pair production in proton-proton collisions at $\sqrt{s} = 7$ TeV*, CMS Collaboration
arXiv:1112.5100, DOI:10.1016/j.physletb.2012.01.078, Physics Letters B

June 2012 *Measurement of the mass difference between top and antitop quarks*, CMS Collaboration
arXiv:1204.2807, DOI:10.1007/JHEP06(2012)109, JHEP

HONOURS AND AWARDS

- 2010 University of Bristol Postgraduate Research Scholarship
- 2008 TAMU Department of Physics Fellowship
- 2004 Y.A.Gagarin award laureate in the nomination of "Study and scientific research"

All-Russian Physics and Mathematics Olympiads (regional level):

- 2004 1st Diploma in Physics and Mathematics
- 2003 2nd Diploma in Physics and 3rd in Mathematics

SCIENTIFIC INTERESTS

- Top physics, search for new phenomena
- Applied physics and mathematics
- Computer science

OTHER INTERESTS

- Guitar/piano, singing
- Travelling, alpine skiing, mountain biking, climbing

LAST UPDATED

June 4, 2013

<http://cern.ch/senkin/cv/>