
Brief Curriculum Vitae - Dr. Christina Potter

Personal Details

Full name: Christina Potter

Present position: University Lecturer, Cavendish Laboratory, University of Cambridge.
Fellow and College Lecturer, Newnham College, University of Cambridge.

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Academic Appointments

2009: Associate Tutor, Department of Physics and Astronomy, University of Sussex.

2009-15: Post-doctoral Research Assistant, Department of Physics and Astronomy, University of Sussex.

2015-18: Early Careers Lecturer, Cavendish Laboratory, University of Cambridge.

2015-: Fellow and College Lecturer, Newnham College, University of Cambridge.

2018-: University Lecturer, Cavendish Laboratory, University of Cambridge.

Societies, Honours, Prizes, etc

2001: Thomas Holloway Bursary, RHUL, performance based.

2005-09: STFC Research Grant, including LTA Grant.

2008: IOP Research Student Conference Bursary.

2009: Best Workshop Tutor, Department of Physics and Astronomy, University of Sussex.

2018: Returning Carers Scheme, University of Cambridge.

2018-21: Co-PI of STFC Experiment Consolidated Grant, £4M.

Other professional bodies

2001-: Member of the Institute of Physics, UK.

2015-: Newnham College Governing Body member.

2017-: Newnham College Buildings Estate Committee member.

Activities on behalf of Research Councils and other UK bodies

2018-: Reviewer for the STFC Fellowships scheme.

Major projects involving scientific and management leadership

2005-: Member of the ATLAS Collaboration, CERN.

2012-14: ATLAS SUSY Multilepton analyses coordinator.

2013-14: Editorial Board member for ATLAS 2ℓ direct stop search (JHEP **06** (2014) 124).

2014-17: ATLAS SUSY and Standard Model summary plots.

2014-15: ATLAS SUSY Electroweak convenor.

2015-17: Editorial Board member for ATLAS WWW search, (EPJC **77** (2017) 141).

2015-18: Editorial Board member for ATLAS $0L$ SUSY search (ATLAS-CONF-2016-078, ATLAS-CONF-2017-022, Phys. Rev. D **97**, 112001 (2018)).

2015-17: ATLAS SUSY studies for the HL-LHC coordinator.

2016-: ATLAS 4ℓ SUSY analysis coordinator.

2016-18: ATLAS UK SUSY/Exotics convenor.

2018-: Editorial Board chair for ATLAS $3L$ EWK SUSY search, (ATLAS-CONF-2019-020).

2018-: ATLAS SUSY EWK Combinations convenor.

Other international scientific activities

2014-: Reviewer for Physics Letters B.

2018: Reviewer for Trinity College Cambridge JRF scheme.

2019: European Physical Society 2019, convenor of New Physics sessions.

Public Understanding of Science

2008: RHUL Physics Masterclasses.

2008: The Royal Society Summer Exhibition, "*The Big Bang Experiment*".

2010-13: Higher Education Summer School, Sussex.

2010-13: Sussex Physics Masterclasses.

2012: Science Week Guest Speaker, St Marys C of E Primary School.
2012: GCSE Prize-giving Guest Speaker, Nonsuch High School for Girls.
2013: Guest Speaker, Steyning Grammar School.
2013: The Royal Society Summer Exhibition, “*Discovering the Higgs boson*”.
2013: Guest Speaker, Stoke Newington School & Sixth Form.
2014: CERN Courier Article, “*ATLAS searches for supersymmetry via electroweak production*”, .
2016: Guest Speaker, Newnham Science Taster Day.
2018: Science Week Guest Speaker, Bar Hill Primary School.
2016-19: Cambridge Physics Masterclasses.
2019: Guest Speaker, Newnham Maths Summer School.

Publications

- ATLAS Collaboration, “*Prospects for SUSY discovery based on inclusive searches with the ATLAS detector at the LHC*”, in CERN-OPEN-2008-020, ATL-PHYS-PUB-2009-066, arXiv:hep-ph/0901.0512, Geneva, Dec 2008.
- ATLAS Collaboration, “*Searching for new physics in events with three leptons and missing transverse momentum at ATLAS*”, in CERN-OPEN-2008-020, ATL-PHYS-PUB-2009-068, arXiv:hep-ph/0901.0512, Geneva, Dec 2008.
- ATLAS Collaboration, “*Search for supersymmetry in events with three leptons and missing transverse momentum in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector*”, Phys. Rev. Lett. **108** (2012) 261804, arXiv:1204.5638.
- ATLAS Collaboration, “*Search for R-parity-violating supersymmetry in events with four or more leptons in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector*”, JHEP **12** (2012) 124, arXiv:1210.4457.
- ATLAS Collaboration, “*Constraining R-parity violating Minimal Supergravity with $\tilde{\tau}_1$ LSP in a four lepton final state with missing transverse momentum*”, ATLAS-CONF-2012-035, 15 Mar 2012.
- ATLAS Collaboration, “*Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector*”, Phys. Lett. B **718** (2013) 841-859, arXiv:1208.3144.
- ATLAS Collaboration, “*Prospects for benchmark Supersymmetry searches at the high luminosity LHC with the ATLAS Detector*”, ATL-PHYS-PUB-2013-011, 30 Sep 2013.
- ATLAS Collaboration, “*Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector*”, JHEP **04** (2014) 169, arXiv:1402.7029.
- ATLAS Collaboration, “*Search for supersymmetry in events with four or more leptons in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector*”, Phys. Rev. D. **90**, (2014) 052001, arXiv:1405.5086.
- ATLAS Collaboration, “*Prospects for benchmark Supersymmetry searches at the high luminosity LHC with the ATLAS Detector*”, ATL-PHYS-PUB-2014-010, 3 July 2014.
- ATLAS Collaboration, “*Search for the electroweak production of supersymmetric particles in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector*”, Phys. Rev. D. **93**, (2016) 052002, arXiv:1509.07152.
- ATLAS Collaboration, “*Dark matter interpretations of ATLAS searches for the electroweak production of supersymmetric particles in $\sqrt{s} = 8$ TeV proton-proton collisions*”, JHEP **09** (2016) 175, arXiv:1608.00872.
- ATLAS Collaboration, “*Search for supersymmetry in events with four or more leptons in $\sqrt{s} = 13$ TeV pp collisions with ATLAS*”, Phys. Rev. D. **98**, (2018) 032009, arXiv:1804.03602.
- ATLAS Collaboration, “*Prospects for searches for staus, charginos and neutralinos at the high luminosity LHC with the ATLAS Detector*”, ATL-PHYS-PUB-2018-048, 16 Dec 2018. Also published in “*HL/HE-LHC Yellow Report Volume II: Report on the Physics at the HL-LHC and Perspectives for the HE-LHC*”, arXiv:1902.10229 [hep-ex], 26 Feb 2019.