

Simon David Badger

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Date of Birth: 16/08/1981
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EMPLOYMENT

10/2020– Associate professor, University of Turin
07/2019–09/2020 Associate professor and STFC Rutherford Fellow, Durham University
10/2016–06/2019 Assistant professor and STFC Rutherford Fellow, Durham University
03/2015–09/2016 STFC Rutherford Fellow, University of Edinburgh
10/2013–02/2015 Fellow, CERN Theory Division, Geneva
10/2010–09/2013 Assistant Professor, Niels Bohr International Academy, Copenhagen
10/2008–09/2010 Post-doctoral Researcher DESY, Zeuthen
10/2006–09/2008 Post-doctoral Researcher SPhT, CEA/Saclay

EDUCATION

10/2003–10/2006 University of Durham, Ustinov College
PhD “On-Shell methods in Perturbative QCD”, Supervisor: Prof. E.W.N.Glover
10/1999–07/2003 University of Durham, Trevelyan College
MSci(Hons) Mathematics and Physics JH (1st Class)

GRANTS AND AWARDS

Jun 2018 ERC consolidator grant “JetDynamics” (1,764,478 € over 5 years)
Oct 2015 STFC Rutherford research grant (£433,316 over 3.5 years).
Mar 2015 STFC Rutherford fellowship (£592,800 over 5 years).
Dec 2010 DFF “Sapere Aude” Ung-Eliteforsker research award (2,664,720 DKK over 2 years).
Jun 2005 North-Holland Research Book Prize (best 1st year PhD performance).
Jun 2003 J.A.Chalmers Book Prize for top result in Mathematics and Physics JH.

WORKSHOP AND CONFERENCE ORGANIZATION

20/09/21-24/09/21 “HP2 2020” (postponed to 2021) Durham, UK
10/07/19-13/07/19 “Scattering amplitudes and finite field arithmetic” Durham, UK
06/01/19-09/01/19 “YETI 2019” Durham, UK
01/07/18-10/07/17 “Amplitudes 2017” Edinburgh, UK
01/06/15-10/06/15 “SM/NLM convenor - Physics at TeV colliders 2015” Les Houches, France
10/04/12-13/04/12 “Standard Model @ LHC” Copenhagen, Denmark
22/08/11-02/09/11 “NBI Summer Institute : Strings, Gauge Theory and the LHC” Copenhagen, Denmark

 TEACHING

May 2019	“Loop amplitudes in gauge theories” [5 hours]	Durham, UK
Jan 2019	“Introduction to QCD” [16 hours]	Durham, UK
Jan 2018	“Introduction to scattering amplitudes” [4.5 hours]	Hangzhou, China
Sep 2018	“Collider Phenomenology” [7 hours]	Lancaster, UK
Jan 2018	“Introduction to QCD” [16 hours]	Durham, UK
Sep 2017	“Collider Phenomenology” [7 hours]	Lancaster, UK
May 2017	“Loop amplitudes in gauge theories” [5 hours]	Durham, UK
Sep 2016	“Collider Phenomenology” [7 hours]	Lancaster, UK
Oct 2015	“Unitarity and on-shell methods” [5 hours]	Atrani, Italy
Jul 2015	“QCD amplitudes at NLO and beyond” [3 hours]	Dubna, Russia
Oct 2013	“Unitarity and on-shell methods” [5 hours]	Atrani, Italy
Jan 2013	“Introduction to quantum field theory” [4 hours]	Copenhagen, Denmark

CONFERENCES, WORKSHOPS AND INVITED SEMINARS

Selected recent talks are:

May 2020	Seminar: Padova, Italy
Feb 2020	Colloquium: Torino, Italy
Oct 2019	Colloquium: CERN TH, Switzerland
Jul 2019	Conference: “QCD@LHC 2019”, Buffalo, US
Jun 2019	Seminar: Oxford, UK
May 2019	Conference: “Multi-loop calculations (Methods and applications)”, Paris, France
Nov 2018	Seminar: Siegen, Germany
Nov 2018	Colloquium: Dublin, Ireland
Jun 2018	Conference: “Amplitudes 2018”, SLAC, USA
Jun 2018	Workshop: “Taming the Complexity of Multi-Loop Integrals”, Zurich, Switzerland
Apr 2018	Conference: “Loops and Legs”, St Goar, Germany
Apr 2018	Seminar: Milan, Italy

[2005-2018] around 30 conferences and workshops. 20 invited seminars.

PUBLICATIONS

I have authored 33 articles in peer reviewed journals including PRL, JHEP and PRD. I have also authored 18 conference proceedings and working group reports. Full details on the 50 articles in high energy physics can be found at this link, INSPIRE-HEP, which excludes one early publication in the field of atomic physics from 2001.