

Curriculum Vitæ

Sakura Schafer-Nameki

Mathematical Institute, University of Oxford
Andrew Wiles Building, Woodstock Road
Oxford OX2 6GG, United Kingdom

Phone: +44 7792 515189
email: sakura.schafer-nameki@maths.ox.ac.uk
Webpage

RESEARCH AREAS

arxiv classifiers: hep-th, cond-mat (strongly correlated electrons), quant-ph
Quantum Phases of Matter, Generalized Symmetries, Quantum Field Theory, Quantum Error Correction and Fault Tolerance.

POSITIONS

2020 onwards	Professor of Mathematical Physics Mathematical Institute, University of Oxford Senior Research Fellow, Wadham College, Oxford
2016-2020	Professor of Mathematical Physics, Mathematical Institute, University of Oxford Tutorial Fellow, Wadham College, Oxford
2010-16	Lecturer (Assistant Prof), then Reader (Tenured Associate Prof) from 2014, King's College, London
2009-2010	5 year senior Postdoctoral Fellow, Kavli Institute for Theoretical Physics (KITP), University of California, Santa Barbara
2006-2009	Prize Postdoctoral Fellow, California Institute of Technology
2003-2006	Postdoctoral Fellow, University of Hamburg

EDUCATION

1999-2003	PhD at DAMTP, University of Cambridge, UK <i>Supervisors:</i> Matthias Gaberdiel (ETH, Zürich) and Peter Goddard (IAS, Princeton)
1998-1999	Part III Mathematics, with Distinction, University of Cambridge
1997	Vordiplom in Physics and in Mathematics, University of Stuttgart
1995-1998	Double Major in Physics and in Mathematics, University of Stuttgart

PUBLICATIONS

All papers can be downloaded as pdf-files, including citation records, from:

<https://inspirehep.net/authors/1019576>

ACADEMIC SCHOLARSHIPS AND PRIZES

2006-2009	Caltech Prize Postdoctoral Fellowship (John A. McCone Fellow)
2005	Prize for outstanding teaching, University of Hamburg
2001	Rayleigh-Knight Prize, University of Cambridge
1999	Dirac Prize, St John's College, Cambridge
1998-2003	Jenkins Scholarship, St John's College, Cambridge
1997- 2001	Scholar of the German National Academic Foundation (Studienstiftung)

FUNDING

- **PI for ERC (European Research Council) Advanced Grant:**
Generalized Symmetries in Quantum Field Theory and Quantum Gravity (GenSym).
Start date **9/2023**
End date **8/2028**
Due to non-association of the UK to ERC, this grant was transformed into an equivalent UKRI ERC Guarantee Grant
- **PI for EPSRC Open Fellowship:**
Canonical Singularities, Generalized Symmetries, and 5d Superconformal Field Theories.
Start date **1/2023**
End date **12/2027**
- **PI for ERC (European Research Council) Consolidator Grant:**
Higgs bundles: Supersymmetric Gauge Theories and Geometry (HIGGSBNL).
Start date **9/2016**
End date **3/2022**
- **PI of the Simons Collaboration on "Special Holonomy in Geometry, Analysis, and Physics",**
Start Date: **7/2020** for 4 years.
- **Co-I STFC Consolidator Grant**, Oxford Mathematical Physics and Theoretical Physics groups, starting **10/2026**
- **Co-I STFC Consolidator Grant**, Oxford Mathematical Physics and Theoretical Physics groups, **10/2023-9/2026**
- **Co-I STFC Consolidator Grant**, Oxford Mathematical Physics and Theoretical Physics groups, **10/2020-9/2023**
- **Wiener-Anspach Collaboration Grant**, Oxford-ULB Brussels, **2018-2020**.
Funding includes two years of postdoctoral fellow split between ULB and Oxford.
- **STFC Rolling Grant**, King's College, Theoretical Physics Group, Department of Mathematics, ST/J002798/1 **2014-2018**.
- Core Group member for Working Group 2 (String Phenomenology) European MPNS COST Action "The String Theory Universe" 2013-2017.
PI for COST funded School and Workshop at GGI Florence **2015**
- PI for conference grant from the London Mathematical Society: "Mathematics of String Theory MOST", June **2014**

- PI for conference grant from STFC (co-funded by COST Action "The String Theory Universe") for workshop the Isaac Newton Institute, Cambridge: "Supersymmetry Breaking in String Theory", March 2014

INVITED PLENARY TALKS

- Plenary talk (Overview Talk) **Strings 2024**, CERN, Switzerland
Discussion Session Lead at **Strings 2023**, Perimeter Institute, Canada (virtual)
Plenary talk at **Strings 2021**, Sao Paolo, Brazil (Virtual)
Plenary talk at **Strings 2017**, Tel Aviv, Israel
Plenary talk at **Strings 2010**, A&M University, Texas, USA
Plenary talk at **Strings 2009**, Rome, Italy
- Plenary talk at **String-Math 2024**, Trieste, Italy
Plenary talk at **String-Math 2019**, Uppsala, Sweden
Plenary talk at **String-Math 2017**, Hamburg, Germany
Plenary talk at **String-Math 2013**, Simons Center for Geometry and Physics, NY, USA
Plenary talk at **String-Math 2011**, University of Pennsylvania, PA, USA
Plenary talk (Overview Talk) **Eurostrings 2025**, Stockholm, Sweden
- Plenary talk at **International Conference on High Energy Physics (ICHEP), 2024**, Prague, Czech Republic
- Talk at **QEC 2026** (Quantum Error Correction) given by Alison Warman, Santa Barbara, USA
- Invited Parallel Session talk at **International Congress of Mathematical Physics (ICMP) 2024**, Strassbourg, France
- Plenary talks at **String Phenomenology**:
2022, Liverpool
2021, Boston (virtual)
2020, Boston (in person conference was cancelled)
2019 CERN, Switzerland
2016, 2017 (invited but was otherwise engaged)
2015 Madrid, Spain
2014 Trieste, Italy
2013 DESY, Germany)
2012 Cambridge, UK
- Invited Speaker at the Inaugural meeting of the **Simons Collaboration on Global Categorical Symmetries 10/2021**, NYC/Edinburgh
- Regular invited speaker at meetings (2016, 2018, 2019) of the **"Simons Collaboration on Special Holonomy in Geometry, Analysis, and Physics"**, including two annual meetings at the **Simons Foundation, NYC**, 2018 and 2019.

- Invited speaker to numerous international conferences: (selection)
Pascos 2026, Sheffield
Kyoto Yukawa Institute workshop, March, 2026
Newton Institute, Cambridge, Conference on Defects, 2025
ENS Summer Institute, Paris, 2025
Geometry and Strings: 2014 & 2015 & 2016 & 2017 & 2022 & 2023 & 2026 (declined),
British Mathematical Colloquium, 2022, London, UK
Aspen Winter Conference 2022, Aspen, USA
Annual Theory Meeting, 2021, Durham, UK
KIAS-YITP 2019, Seoul, South Korea
KEK Winter Conference 2019, Tsukuba, Japan
Banff International Research Station: Geometry and Physics of F-theory, Banff, Canada
COST Network Conference 2017, Milano, Italy
Aspen Workshop on Superconformal theories 2017, Aspen, USA,
Planck 2014, Paris, France,
XXIV. Workshop Beyond the Standard Model, Bad Honnef, Iberian Strings 2013 (Lisbon, Portugal), **Bethe Workshop 2012**, (Bonn, Germany), **Integrability in Gauge and String Theory 2008**, (Utrecht, Netherlands)

INVITED LECTURES

- Invited Lecturer at the **MITP Summer School 2026**, Mainz, Germany
- Invited Lecturer at the **TASI Summer School, 2023**, Boulder, Colorado, USA
- Invited Lecturer at the **ICTP Trieste Spring School 2023**, Trieste, Italy
- Invited Lecturer at the **15th Kavli Asian Winter School 2021**, Virtual
- Invited Lecturer at the **CERN Winter School 2019**, Geneva, Switzerland
- Invited Lecturer at the **CERN Winter School 2013**, Geneva, Switzerland
- Invited Speaker at "**Walter Burke Institute for Theoretical Physics**" Inaugural Conference, **Caltech, 2015**

PROFESSIONAL SERVICES

Editorial Work:

SciPost Member of the Editorial College, since 2020.

Communications in Mathematical Physics, Associate Editor 2023-2024 (I resigned as this journal is not run in a way that is adequate in 2024).

Arxiv:

Member of the Physics section editorial council for high-energy and mathematical physics for the arXiv (since 9/2024)

Referee:

Journal of High Energy Physics, Journal of Physics A, Journal of Statistical Mechanics, Letters in Mathematical Physics, Physics Letters B, Physical Review Letters, Physical Review D, Nuclear Physics B.

Scientific Committees:

Scientific Advisory Committee, **Simons Center for Geometry and Physics**, since 2023

Aspen Center for Physics, USA, General Member, since 2020
Aspen Center for Physics, USA, Chair for Winter Conference Committee 2026
STFC Particle Physics Grants Panel (Theory), 2020-2026
STFC Rutherford Fellowship Panel, 2020, 2021, 2022
Steering Committee, Simons Collaboration on Special Holonomy, since 2020
Kavli IPMU, Tokyo University, External Advisory Committee, since 2019
Eurostrings Steering Committee, since 2021
String-Math Conference Series, Scientific Advisory Committee, 2014-2020, 2022-
Strings 2022 conference, Scientific Program Committee
Strings 2018 conference, Scientific Program Committee.

Oxford:

Chair of Finance Committee, Mathematical Institute, from 7/2022 -7/2023
 Wadham College, Warden Search Committee (2020/2021)
 Hiring committee for Associate Professor in Geometry
 Hiring committee for Associate Professor in Particle Phenomenology, Department of Physics
 Hiring committee for Associate Professor in Combinatorics, Wadham College
 Hiring committee for postdocs (2016, 2017, 2018, 2019, 2020, 2021)
 Titchmarsh Fellowship Committee (2018, 2021)
 Admissions Chair for PhD students (since 2018).

King's College London:

Hiring committee for Lecturer in Particle Theory, Physics Department
 Admissions Tutor and Program Director for PhD in Theoretical Physics.

ORGANIZATION OF WORKSHOPS AND CONFERENCES

- 7/2026 **GGI Florence Program** on "Defects and Extended Excitations in Quantum Field Theory, Quantum Matter and Statistical Models" (with A. Cappelli, G. Cuomo, A.Nahum, Z.Komargodski, M.Metlitski, H.Saleur)
- 5/2026 **Oberwohlfach MFO Workshop** on "Higher Structures from Symmetries in Quantum Field Theory" (with D.Reutter, C.Schweigert)
- 2/2026 **Aspen Winter Conference** on "Generalized Symmetries in QFT and Gravity" (with I.Bah, D. Freed, C.Teleman)
- 3-5/2025 **KITP Program** and Conference, on "Generalized Symmetries in Quantum Field Theory: High Energy Physics, Condensed Matter, and Quantum Gravity" (with M. Barkeshli, M. del Zotto, S. Shao)
- 8/2024 **Symmetries 2024** Conference, Oxford, UK
- 4/2023 **Simons Collaboration Workshop: Special Holonomy and Physics**, KITP, (with B. Acharya, M. Cvetič, D. Morrison).
- 1/2023 **Simons Collaboration Workshop: Oxford** (with D. Joyce, J. Lotay)
- 8/2022 **Generalized Global Symmetries, Quantum Field Theory, and Geometry**, Simons Center Stony Brook (with M. Del Zotto, postponed to 2022 due to Covid)
- 9/2022 **Aspen Center for Physics: Workshop on Higher Symmetry and Quantum Field Theory** (with C. Cordova, J. Plavnik, C. Teleman)
- 1/2022 **Simons Collaboration Workshop: Connections between String Theory and Special Holonomy**, virtual (with D. Joyce, and J. Lotay)

- 2022 **Workshop on Special Holonomy**, Nordita (with M. Larfors, postponed to 2022 due to Covid)
- 1/2021 **Simons Collaboration Workshop: Donaldson-Thomas Theory and Resurgence**, virtual (with D. Joyce, S. Salamon)
- 10/2020 **Special Holonomy and Branes**, (virtual) AIM, CA, USA (with S. Gukov, R. Mazzeo).
- 4/2020- **Virtual seminar series QFT and Geometry** and associated **QFT and Geometry Summer School**, as reaction to COVID-19.
- 9/2019 **Geometry and Strings 2019**, Oxford
- 3/2019 **Integrability and Conformal Field Theory, 2019** (with C. Beem, P. Fendley)
- 8/2018 **Superconformal Field Theories and Geometry**, Aspen Center for Physics (ACP), CO, USA (with D. Morrison and A. Tomasiello)
- 7/2018 **Bethe Forum: String Theory Challenges in Particle Physics and Cosmology**, Bethe Center, University of Bonn, Germany (with H.-P. Nilles, G. Honecker, M. Ratz)
- 4/2018 **Eurostrings 2018** (with J. Gauntlett, D. Martelli, S. Murthy)
- 2/2016 **"F-theory at 20" Conference**, Caltech, Pasadena.
- 10/2015 **"String-Pheno-Cosmo: School and Workshop"**, GGI, Florence, Italy
- 8/2015 **"F-Theory at the Interface of Particle Physics and Mathematics"**, ACP, USA
- 6/2014 **"Mathematics of String Theory (MOST)"**, London, UK
- 3/2014 **Supersymmetry Breaking in String Theory**, Isaac Newton Institute, UK

VISITING POSITIONS

- Visiting Fellowship position, **Perimeter Institute**, Canada, 2022-2025.
- Long-term invited visiting position: **Caltech**, 2009-2010, Pasadena, USA
- Short-term invited visiting positions:
Simons Center for Geometry and Physics, Stony Brook, New York, USA
CERN, Geneva, Switzerland
Aspen Center for Physics: Working Group in 2017
Aspen Center for Physics: Workshop organizer 2015
Aspen Center for Physics: Working Group in 2011

POSTDOCS AND PHD STUDENTS

Current Postdocs:

Dr Andrea Antinucci (2025-2027)
 Dr Christian Copetti (2024-2027)
 Dr Kansei Inamura (2024-2027) jointly hired with Shivaji Sondhi
 Dr Thomas Bartsch (2026-2029)
 Dr Rajath Radhakrishnan (2026-2029)
 Dr Rui Wen (2026-2029)

Former Postdocs:

Dr Matthew Yu (2024-2026, now: IAS Princeton, USA)

Dr Sheng-Jie Huang (2024-2026, faculty at Florida State University, USA)
Dr Julius Grimminger (until 9/2026)
Dr Jingxiang Wu (until 9/2025, to CERN, then XTX, NYC)
Dr Lakshya Bhardwaj (until 9/2023, now: Royal Society URF and faculty, Birmingham)
Dr Evyatar Sabag (until 9/2024)
Dr Yi-Nan Wang (until 5/2021, now: Associate Professor at Peking University, China)
Dr Andreas Braun (until 9/2019, now: Associate Professor at Durham University, UK)
Dr Heeyeon Kim (until 6/2020, now: Assistant Professor at Rutgers University, NJ, USA)
Dr Martin Bies (until 8/2020, now: Postdoc University of Pennsylvania, PA, USA)
Dr Fabio Apruzzi (until 9/2021, now: faculty at University of Padua)
Dr Simone Giacomelli (until 9/2021, now: Postdoc Bicocca University, Milano, Italy)
Dr Federico Bonetti (until 9/2022), now: Faculty in Murcia, Spain

Current PhD Students:

Alison Warman (year 4)
Yuhan Gai (year 4)
Oscar Lewis (year 3)
Oscar Wojdl (year 2)

Past PhD Students:

Daniel Pajer (PhD2026)
Lea Bottini (PhD 2025: Postdoc offer at IAS, Princeton; declined. Postdoc at IHES, Paris)
Dewi Gould (PhD 2024: Postdoc at the Alan Turing Institute, London)
Marieke van Beest (PhD 2022: Postdoc at the Simons Center for Geometry and Physics)
Max Hubner (PhD 2021, Postdoc at Uppsala/CMS Harvard)
Sebastjan Cizel (PhD 2021, AI Research)
Julius Eckhard (PhD 2020, works at SAP),
Jin-Mann (Jenny) Wong (PhD 2017, British Arctic Service)
Damiano Sacco (PhD 2017, Fellow ICI Berlin)
Craig Lawrie (PhD 2015, 5 year fellow, DESY, Hamburg)
Moritz Küntzler (PhD 2013)

TEACHING

University of Oxford:	Lecture Course: Renormalization Group from 2022 String Theory II since 2018 Tutorials at Wadham College: Geometry, Metric Spaces and Complex Analysis, Quantum Theory
King's College, London:	Lecture Courses: Calculus II (Vector Calculus) 2010-2016, First year students (180-250 students) Supersymmetry (2011-2016) MSc Course, Graduate Level Lecture
15th Kavli Asian Winter School 2021 CERN	Invited Lecturer Winter School 2013 Winter School 2019 Lectures on String Compactifications and Phenomenology
University of Hamburg: 2005	TA: Electrodynamics, Quantum Mechanics, Thermodynamics <i>Prize for outstanding teaching</i>
University of Cambridge:	Supervisions for Part III Courses: String Theory and Conformal Field Theory
St John's College, Cambridge:	Supervisions for the Mathematical Tripos: Part IB Electromagnetism Part IIB Electrodynamics, Foundations of Quantum Mechanics

PUBLICATIONS

Authors listed alphabetically for hep-th papers. All papers can be downloaded as pdf-files, including citation records, from:

<https://inspirehep.net/authors/1019576>
last updated: August 24, 2026