

JOSEPH CONLON – CURRICULUM VITAE

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I am Professor of Theoretical Physics at the University of Oxford and also a Fellow of New College, Oxford. I have wide research interests in string theory, cosmology, particle physics and astroparticle physics, oriented around the desire to connect string theory to observational physics (the field of String Phenomenology).

PROFESSIONAL HISTORY

- 2012 – Tutorial Fellow and Governing Body Member, New College, Oxford, UK
2008 – Faculty Member, Theoretical Physics, Department of Physics, Oxford, UK
Full Professor (2016 - ongoing)
Proleptic Lecturer then Lecturer (Associate Professor) (2010 - 2016)
Royal Society University Research Fellow (2008 – 2016)
- 2005 – 2009 Junior Research Fellow, Trinity College, Cambridge

EDUCATION

- 2003 - 06 PhD in Theoretical Physics
DAMTP, Cambridge University (Advisor: Fernando Quevedo)
Topic: *Moduli Stabilisation and Applications in IIB String Theory*
- 1999 - 2003 BA Natural Science (Physics), top in year; Part III Mathematics
Cambridge University
- 1994 – 1999 BSc Mathematics (part-time alongside schoolwork), University of Reading

PERSONAL FELLOWSHIPS AND AWARDS

- 2016 Physics World, *Book of the Year*
2012 Outstanding Tutor award, University of Oxford Students Union
2012 – 2017 European Research Council, Starting Grant
2008 – 2016 Royal Society, University Research Fellowship
2003 Mayhew Prize, University of Cambridge

RESEARCH ARTICLES

I am the author of ~75 research papers in string theory, cosmology, particle physics and astroparticle physics, with a total of approximately 6300 citations (research articles only and excluding reviews, white papers etc). My full publication record is available at <https://inspirehep.net/authors/1024860> .

INVITED TALKS AND SEMINARS

I have given over 150 invited seminars/presentations at universities and conferences around the world.

BOOKS

- 2024 *Origins: The Cosmos in Verse* (Oneworld Publications); a book-length verse account of the early universe consisting of two long poems on inflation and nucleosynthesis.
- 2015 *Why String Theory?* (CRC Press); a broad account, for a general audience, of string theory and why it has such enduring influence.

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

- 2008 – 2023 PhD: Francisco Pedro, Lukas Witkowski, Stephen Angus, Andrew Powell, Francesca Day, Nicholas Jennings, Filippo Revello, Krishnendu Ray, Sirui Ning, Fien Apers, Martin Mosny, Noelia Sanchez-Gonzalez
- Postdocs: Pedro Alvarez, Sven Krippendorff, Markus Rummel, M. C. David Marsh, Francesco Muia

UNDERGRADUATE TEACHING ACTIVITIES

As a Tutorial Fellow at New College, I admit, mentor, and give tutorials (~6 hours/week) to 6/7 New College Physics undergraduates each year. In the Physics department I have lectured various courses (Classical Mechanics, Theoretical Physics, Astroparticle Physics, Supersymmetry) and supervised many Masters dissertations.

ORGANISATION OF SCIENTIFIC MEETINGS

- 2027 Lead Organiser, String Phenomenology 2027 (Oxford)
- 2019 Lead organiser, Royal Society discussion meeting on X-ray astronomy and Fundamental Physics
- 2018 Lead organiser, BUSSTEPP: 2-week UK training school for ~70 graduate students in particle theory at end of 1st year of PhD
- 2018 Lead organisers, Peierls Symposium on Theoretical Physics, University of Oxford
- 2012 Lead organiser, String Phenomenology 2012 (Cambridge)
- 2012 Organiser, Isaac Newton Institute program (Mathematics and Applications of Branes in String and M-Theory)

SERVICE AND INSTITUTIONAL RESPONSIBILITIES

- 2023 – 2024 University Assessor, University of Oxford (senior ~0.75FTE fixed-term 1-year elected position with a special responsibility for governance):
- Member of University Council and Trustee of the University
 - Member of University Planning and Resource Allocation Committee, Education Committee, People Committee, Equality and Diversity Committee, Audit and Scrutiny Committee, Senior Remuneration Committee, Honorary Degree Committee (+ around 20 others)
 - Chair of University Financial Assistance Committee, University Panel for Remission of Fees, Clubs Committee
- 2020 – 2023 Undergraduate Admissions Coordinator, Physics Department
- 2008 – 2023 Member of hiring committee for postdoctoral fellowships, Associate Professorships and Statutory (named) Professor
- 2012 – 2023 Trustee and member of Governing Body, Admissions Committee, Finance Committee, Buildings Committee, Tutors Committee (New College Oxford, UK)
- 2008 – 2012 Graduate Admissions, Oxford particle theory group

REVIEWING

- 2019 – Member of the Editorial Board, *Contemporary Physics*
- 2012 – Scientific and Grant Evaluation (Marie Curie Fellowships, Royal Society, STFC, DFG, Dutch Veni/Vidi grants, FWF, Sloan Foundation, ERC, Adams Prize)
- 2006 – Referee (JHEP, JCAP, PRD, PRL, ApJ, MNRAS, PLB, Classical and Quantum Gravity)

EXAMINING

Since 2008 I have been either external or internal PhD examiner for around 20 PhD theses, including in Stockholm, Paris, Vienna, Liverpool.

I have been undergraduate examiner (marking from 10 to 180 scripts depending on the course) for Supersymmetry, Classical Mechanics, Theoretical Physics (4th Year Option) and Symmetry and Relativity (3rd year relativistic electrodynamics).