

## CURRICULUM VITAE - DR JOSEPH CONLON

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**Date of Birth** 29th January 1981

### CAREER HISTORY

- 10/08 - Royal Society University Research Fellow and Proleptic Lecturer, Department of Physics and Balliol College, University of Oxford.
- 10/05 - 09/08 Junior Research Fellow, Trinity College, Cambridge, held in DAMTP (2005-08) and Cavendish Laboratory (2007-08), Cambridge University.
- 10/03 - 09/06 PhD, DAMTP, Cambridge University (advisor Fernando Quevedo)
- 10/02 - 06/03 Part III Mathematics, with Distinction.
- 10/99 - 06/02 University of Cambridge, BA Natural Sciences (Part II Physics)  
Top of university in second and third years.
- 09/94 - 06/99 University of Reading, BSc Mathematics, graduated top of class.
- 09/91 - 06/98 Douai Abbey School, Reading, UK.

### SELECTED AWARDS

- 2008 University of Texas at Austin Distinguished Visitor (\$10,000 honorarium)
- 2005 Smith-Knight Essay Prize, Class 1
- 2003 Mayhew Prize (top, Part III Mathematics (Applied))
- 2002 Hartree and Clerk Maxwell Prize (top, Part II Physics)
- 2001 BP Prize (top, Part IB Advanced Physics)
- 1999 Rado Prize (Reading, top graduating mathematics student)

### PROFESSIONAL ACTIVITIES AND SERVICE

Co-organiser of Isaac Newton Institute program on Mathematics and Applications of Branes, January-July 2012 (total budget around 300k GBP)

Co-organiser of String Phenomenology 2012, June 25th to 29th 2012, Cambridge

Graduate admissions, Oxford particle theory 2009-

Organiser of particle theory seminar series, Cambridge 2006-08, Oxford 2009-2010

Referee for JCAP, JHEP, Physical Review, Physical Review Letters, Nuclear Physics B,  
Physics Letters B.

## GRANTS

Royal Society URF (2008-13): (approx 400k GBP) includes salary, research and travel  
Invited to interview for ERC Starting Grant (2010-15): (1M euro to hire postdoc and students)

## TEACHING

Graduate supersymmetry course (24 hours), written and taught 2010 and 2011.

I have three graduate students, Francisco Pedro (3rd year), Lukas Witkowski (2nd year)  
and Stephen Angus (1st year).

At undergraduate level, I have taught students from first to final year across a wide  
range of topics and have approximately four hundred contact hours of tutorial teaching.

## REFEREES

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## DR JOSEPH CONLON: SEMINARS AND TALKS

2011

- Madison, Wisconsin (String Phenomenology 2011), 08/11
- Stockholm, 06/11
- Glasgow, 04/11
- Puri, India (Indian Strings Meeting 2011), 01/11

2010

- DAMTP, Cambridge, 11/10
- Paris (String Phenomenology 2010), 07/10
- California Institute of Technology, 04/10
- KITP Santa Barbara String Phenomenology Workshop, 03/10
- Bad Honnef (XXII BSM Meeting), 03/10 (Plenary review talk)
- Munich, Strings and GUTs Meeting, 02/10
- Perimeter Institute, 01/10 (mini-course of three invited lectures)

2009

- Stockholm University, 11/09
- Queen Mary University of London, 11/09
- University of Oxford, 10/09
- University of Cambridge, 10/09
- EPS-HEP Conference 2009, Krakow, 07/09 (Theory Parallel Session)
- Durham-Patras Axions Workshop, 07/09
- PASCOS 2009, DESY, Hamburg, 07/09 (Parallel)
- Warsaw, 06/09 (String Phenomenology 2009, Plenary)
- CERN, 03/09
- Mitchell Workshop, Texas, 03/09
- University of Amsterdam, 02/09

2008

- IPMU, Tokyo, Japan, 11/08
- Ecole Normale, Paris, 10/08
- King's College London, 10/08
- University of Oxford, 09/08 (two lectures, UniverseNet cosmology school)
- DESY, Hamburg, 06/08
- University of Amsterdam, 06/08
- University of Pennsylvania, 06/08 (String Phenomenology 2008)
- Dublin, Ireland, 05/08 (two lectures, 15th Irish Quantum Field Theory Meeting)
- University of Utrecht, 05/08

- Texas A&M University, 04/08
- University of Texas at Austin, 04/08
- University of Stockholm, 02/08
- University of Oxford, 01/08
- University of Michigan, 01/08

## 2007

- Bangalore, India, 12/07 (From Strings to LHC II)
- University of Barcelona, 12/07
- Queen Mary University of London, 11/07
- Kings College London, 11/07 (Fundamental Physics UK meeting)
- CERN, Geneva, 10/07
- University of Nottingham, 09/07
- ICTP, Trieste, 07/07 (Strings and Cosmology)
- Imperial College, London, 07/07 (PASCOS-07)
- University of Cambridge, 06/07
- University of Rome, 06/07 (String Phenomenology 2007)
- University of Madrid, 05/07
- Harvard University, 04/07
- Massachusetts Institute of Technology, 04/07
- Rutgers University, 04/07
- University of Pennsylvania, 04/07
- Princeton University, 04/07
- University of Swansea, 03/07
- University of Nottingham, 03/07 (UK Cosmology Meeting)
- DESY, Hamburg, 02/07 (Workshop on Flux Compactifications)
- University of Warsaw, 02/07 (Particle Physics and Cosmology Workshop)
- University of Utrecht, 02/07

## 2006

- Imperial College, London, 12/06
- Albert-Einstein-Institut Potsdam, 12/06
- University of Durham, 11/06
- University of Liverpool, 11/06
- University of Oxford, 11/06
- ICTP, Trieste, 10/06
- Perimeter Institute, Waterloo, 10/06
- University of Cambridge, 08/06 (Cambridge-Mitchell Conference)
- ICTP, Trieste, 05/06 (String Vacua and the Landscape)
- University of Sussex, 04/06

- University of Cambridge, 03/06
- Stanford University, 01/06

2005

- Ohio State University, 11/05 (Strings and the Real World)
- University of Cambridge, 10/05
- Greater Paris String Theory Seminar, 10/05
- University of Southampton, 10/05
- University of Durham 10/05 (UK Cosmology Meeting)
- University of Durham 07/05 (SUSY 2005)
- Max-Planck-Institut, Munich 06/05 (String Phenomenology 2005)
- Max-Planck-Institut, Munich 04/05
- University of Sussex, 03/05
- University of Cambridge, 02/05
- University of Oxford, Maths Institute, 01/05

DR JOSEPH CONLON: PUBLICATION LIST

ARXIV PAPERS

36. J. P. Conlon and L. Witkowski, *Scattering and Sequestering of Blow-Up Moduli in Local String Models*, arXiv:1109.4153 [hep-th].
35. J. P. Conlon and F. Pedro, *Supersymmetric Radiative Flavour*, arXiv:1108.2424 [hep-th].
34. J. P. Conlon and F. Pedro, *Moduli-Induced Vacuum Destabilisation*, JHEP 1105:079 (2011), arXiv:1010.2665 [hep-th].
33. M. Bullimore, J. P. Conlon and L. T. Witkowski, *Kinetic mixing of  $U(1)$ s for local string models*, JHEP 1011:142 (2010), arXiv:1009.2380 [hep-th].
32. J. P. Conlon, M. Goodsell and E. Palti, *Anomaly Mediation in Superstring Theory*, arXiv:1008.4361 [hep-th].
31. J. P. Conlon, M. Goodsell and E. Palti, *One-loop Yukawa Couplings in Local Models*, JHEP 1011:087 (2010), arXiv:1007.5145 [hep-th].
30. J. P. Conlon, F. Pedro, *Moduli Redefinitions and Moduli Stabilisation*, JHEP:1006:082 (2010), arXiv:1003.0388 [hep-th].
29. J. P. Conlon, E. Palti, *Aspects of Flavour and Supersymmetry in Local GUTs*, JHEP 1001:029 (2010), arXiv:0910.2413 [hep-th].
28. J. P. Conlon, E. Palti, *On Gauge Threshold Corrections for Local IIB/F-theory GUTs*, Phys. Rev. D80:106004 (2009), arXiv:0907.1362 [hep-th].
27. R. Blumenhagen, J. P. Conlon, S. Krippendorff, S. Moster, F. Quevedo, *SUSY Breaking in Local String/F-Theory Models*, JHEP 0909:007 (2009), arXiv:0906.3297 [hep-th].
26. J. P. Conlon, E. Palti, *Gauge Threshold Corrections for Local Orientifolds*, JHEP 0909:019 (2009), arXiv:0906.1920 [hep-th].
25. J. P. Conlon, *Gauge Threshold Corrections for Local String Models*, JHEP 0904:059 (2009), arXiv:0901.4350 [hep-th].
24. J. P. Conlon, A. Maharana, F. Quevedo, *Towards Realistic String Vacua*, JHEP 0905:109 (2009), arXiv:0810.5660 [hep-th].

23. J. P. Conlon, A. Maharana, F. Quevedo, *Wave Functions and Yukawa Couplings in Local String Compactifications*, JHEP 0809:104 (2008), arXiv:0807.0789 [hep-th].
22. J. P. Conlon, R. Kallosh, A. Linde, F. Quevedo, *Volume Modulus Inflation and the Gravitino Mass Problem*, JCAP 0809:011 (2008), arXiv:0806.0809 [hep-th].
21. C. P. Burgess, J. P. Conlon, L-Y. Hung, C. H. Kom, A. Maharana, F. Quevedo, *Continuous Global Symmetries and Hyperweak Interactions in String Compactifications*, JHEP 0807:073 (2008), arXiv:0805.4037 [hep-th].
20. M. Cicoli, J. P. Conlon, F. Quevedo, *General Analysis of LARGE Volume Scenarios with String Loop Moduli Stabilisation*, JHEP 0810:105 (2008), arXiv:0805.1029 [hep-th].
19. B. Allanach, J. P. Conlon, C. Lester, *Measuring Stauon-Selectron Mass Splitting at the LHC and Patterns of Supersymmetry Breaking*, Phys. Rev. D 77, 076006 (2008), arXiv:0801.3666 [hep-ph].
18. J. P. Conlon, *Mirror Mediation*, JHEP 0803:025 (2008), arXiv:0710.0873 [hep-th].
17. S. Abdusalam, J. P. Conlon, K. Suruliz, F. Quevedo, *Scanning the Landscape of Flux Compactifications: Vacuum Structure and Soft Supersymmetry Breaking*, JHEP 0712:036 (2007), arXiv:0709.0221 [hep-th].
16. M. Cicoli, J. P. Conlon, F. Quevedo, *Systematics of String Loop Corrections in IIB Flux Compactifications*, JHEP 0801:052 (2008), arXiv:0708.1873 [hep-th].
15. J. P. Conlon, F. Quevedo, *Astrophysical and Cosmological Implications of Large Volume String Compactifications*, JCAP 0708:019 (2007), arXiv:0705.3460 [hep-ph].
14. J. P. Conlon, C. Kom, K. Suruliz, B. Allanach, F. Quevedo, *Sparticle Spectra and LHC Signatures for Large Volume String Compactifications*, JHEP 0708:061 (2007), arXiv:0704.3403 [hep-ph].
13. J. P. Conlon, D. Cremades, *The Neutrino Suppression Scale from Large Volume*, Phys. Rev. Lett. 99:041803 (2007), arXiv:hep-ph/0611144.
12. J. P. Conlon, *Moduli Stabilisation and Applications in IIB String Theory*, Fortschritte der Physik 55:3.287-422 (2007), arXiv:hep-th/0611039.
11. J. P. Conlon, S. Abdusalam, F. Quevedo, K. Suruliz, *Soft SUSY Breaking Terms for*

*Chiral Matter in IIB String Compactifications*, JHEP 0701:032 (2007), arXiv:hep-th/0610129.

10. J. P. Conlon, D. Cremades, F. Quevedo, *Kähler Potentials of Chiral Matter Fields for Calabi-Yau String Compactifications*, JHEP 0701:022 (2007), arXiv:hep-th/0609180.

9. J. P. Conlon, *Seeing the Invisible Axion in the Sparticle Spectrum*, Phys. Rev. Lett. 97:261802 (2006), arXiv:hep-ph/0607138.

8. J. P. Conlon, F. Quevedo, *Gaugino and Scalar Masses in the Landscape*, JHEP 0606:029 (2006), arXiv:hep-th/0605141.

7. J. P. Conlon, *The QCD Axion and Moduli Stabilisation*, JHEP 0605:078 (2006), arXiv:hep-th/0602233.

6. J. P. Conlon, F. Quevedo, *Kähler Moduli Inflation*, JHEP 0601:146 (2006), arXiv:hep-th/0509012.

5. J. P. Conlon, F. Quevedo, K. Suruliz, *Large Volume Flux Compactifications: Moduli Spectrum and D3/D7 Soft Supersymmetry Breaking*, JHEP 0508:007 (2005), arXiv:hep-th/0505076.

4. V. Balasubramanian, P. Berglund, J. P. Conlon, F. Quevedo, *Systematics of Moduli Stabilisation in Calabi-Yau Flux Compactifications*, JHEP 0503:007 (2005), arXiv:hep-th/0502058.

3. J. P. Conlon, F. Quevedo, *On the Explicit Construction and Statistics of Calabi-Yau Flux Vacua*, JHEP 0410:039 (2004), arXiv:hep-th/0409215.

2. R. Blumenhagen, J. P. Conlon, K. Suruliz, *Type IIA Orientifolds of General Supersymmetric  $Z(N)$  Orbifolds*, JHEP 0407:022 (2004), hep-th/0404254.

1. J. P. Conlon, D. Gepner, *Field Identifications for Interacting Bosonic Models in  $N=2$  Superconformal Field Theory*, Phys. Lett. B 548:102-110 (2002), arXiv:hep-th/0209112.

#### OTHER PUBLISHED PAPERS

3. J. P. Conlon, *Hierarchy Problems in String Theory and Large Volume Models*, Mod.Phys.Lett.A 23:1-16 (2008).

2. J. P. Conlon, *Sparticle spectra from large-volume string compactifications.*, PASCOS 2007 Proceedings, AIP Conf. Proc. 957:201-204 (2007).

1. J. P. Conlon, *The String Theory Landscape: A Tale of Two Hydras*, Contemp. Phys. 47:119-

129 (2006).