

Curriculum Vitae

Personal Details

Name: Olindo Corradini

Nationality: Italian

Work Address: Dipartimento di Scienze Fisiche, Informatiche e Matematiche (FIM), Università degli Studi di Modena e Reggio Emilia (UNIMORE), Via Campi 213/A, I-41125 Modena, Italy

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Jobs

- November 2015 – present: Full Time Associate Professor at FIM-UNIMORE.
- November 2015 – present: Associate fellow at Istituto Nazionale di Fisica Nucleare (INFN), Sezione di Bologna.
- November 2010 – November 2015: Full Time Associate Professor (*Profesor de Tiempo Completo Titular B*) of Physics at Facultad de Ciencias en Fisica y Matematicas (FCFM) – Universidad Autonoma de Chiapas (UNACH), Mexico.
- May 2002 – November 2010: Post Doc at the Department of Physics of the University of Bologna, Italy.
- May 2000 – May 2002: Research assistant at the C.N. Yang Institute for Theoretical Physics (YITP) of State University of New York (SUNY) at Stony Brook, New York, USA.
- August 1998 – May 2000: Teaching assistant at the Department of Physics and Astronomy of SUNY Stony Brook, New York, USA.

Education

- August 2002: PhD. in Physics – State University of New York at Stony Brook. Thesis title: Topics in brane world and quantum field theory. Advisor: Prof. Z. Kakushadze.
- December 1997: Laurea in Fisica – Università di Modena, Italy Grade: 110/110 with honors. Thesis title: 't Hooft anomaly matching conditions. Supervisors: Prof. F. Bastianelli and Prof. C.M. Bertoni.

Personal Awards and Fellowships

- 2020 – 2030: National Scientific Habilitation (ASN) for Full Professorship Position in the field 02/A2 “Theoretical Physics of Fundamental Interactions”.
- September 2014: member of *Sistema Nacional de Investigadores* (National System of Researchers of Mexico) with rank *Investigador Nacional de Nivel II* (national researcher of level II), for the period January 2015 – December 2018.
- September 2011: member of *Sistema Nacional de Investigadores* with rank *Investigador Nacional de Nivel I*, for the period January 2012 – December 2014.
- February 1999: “T.A. Pond prize” from the Department of Physics and Astronomy of the State University of New York at Stony Brook.

Teaching Experience

- 2016 – present: 15 graduate courses for the *Laurea Magistrale Physics* (Master of Science) program at FIM-UNIMORE.
- 2016 – present: 11 undergraduate courses for the *Laurea Triennale* in Physics and *Laurea Triennale* in Geology
- 2014: 1-month course titled “Feynman Path Integrals: Theory and Applications in the Fields of

Quantum Mechanics, Statistical Mechanics and Quantum Field Theory”, for the PhD program at FIM-UNIMORE.

- 2013: 1-month course titled “Quantum Mechanical Path Integrals: from Transition Amplitudes to Worldline Formalism”, for the *Laurea Magistrale* program at FIM-UNIMORE.
- 2011 – 2015: 13 undergraduate-level courses given at FCFM-UNACH.

Postdocs and Students Supervision

- 2018: advisor of Ph.D. Students Maurizio Muratori and Filippo Maria Balli at FIM-UNIMORE.
- 2015—present: supervisor of 6 M.Sci. and 13 B.Sc. student at FIM-UNIMORE.
- 2015: supervisor of post-doc Naser Ahmadinia, at FCFM-UNACH
- 2011—2015: supervisor of three undergraduate students at FCFM-UNACH

Recent Research Grants—as Principal Investigator

- January 2015—December 2015: CONACyT-MINCYT collaboration grant; 70,000 Mexican Pesos. Travel grant for a collaboration with P. Pisani of Universidad de La Plata, Argentina
- July 2012—December 2015: UC MEXUS – CONACyT grant; 25,000 USD. Travel grant for a collaboration with A. Waldron of University of California, Davis.

Other Academic Activity

- February 2019: invited visitor at Keio University, Tokyo, Japan.
- February 2018: invited visitor at Keio University, Tokyo, Japan.
- December 2013—January 2014: invited visitor at UNIMORE.
- January 2013—March 2013: invited visitor at UNIMORE.
- January 2009—March 2009: visitor at the Laboratoire de Physique Théorique, Université Paris-Sud, Orsay.
- May 2007—July 2007: visitor at the Institute of Cosmology and Gravitation at the University of Portsmouth.
- March 2007: invited visitor at the Instituto de Física y Matemáticas of the Universidad Michoacana de San Nicolás de Hidalgo in Morelia, Mexico.
- February 2007: invited visitor at the Physics Department of UC Davis.
- October 2005: visitor at the Physics Department of McGill University, Montreal.
- November 2003 – March 2004: visitor at the Centre de Physique Théorique of the École Polytechnique in Paris.

Language Skills

- Italian: native.
- English and Spanish: fluent.
- French: Intermediate.

Referee Activity

I have served as a referee for Physical Review Letters, Physical Review D, Physics Letters B, Foundations of Physics, The European Physical Journal Plus, ISRN Mathematical Physics, Revista Mexicana de Física E.

Publications

68 articles published on scientific journals (3 as single author) + 9 contributions to proceedings. A full list of publications can be found at the [link](#)

Research Interests

My research interests cover several aspects of Quantum Field Theory, String Theory and Cosmology. In particular, I have worked on:

- > First-quantized approaches to quantum field theory and worldline formalism in flat and curved

backgrounds

- Higher-spin field theory
- Quantum field theory with extra dimensions
- Anomalies in QFT's
- Conformal geometry approach to quantum gravity
- Topological aspects of the band structure of solids