

Alberto Tacchella

Curriculum vitæ — January 19, 2017

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🌐 <http://atlog.it>
Age: 36 years old
Nationality: Italian

Academic positions

- Sep. 2011 – Aug. 2014 **Postdoctoral Researcher**, *Universidade de São Paulo (USP)*, São Carlos, Brazil.
- Oct. 2007 – Feb. 2008 **Early Stage Researcher**, *Oxford University*, Oxford, England.

Education and training

- 2006–2010 **PhD in Mathematics and Applications**, *DIMA (Department of Mathematics)*, *Università degli studi di Genova*, Genoa, Italy.
- 1999–2005 **Laurea in Theoretical Physics**, *DIFI (Department of Physics)*, *Università degli studi di Genova*, Genoa, Italy, final mark: 110/110 cum laude.
- 1994–1999 **Diploma di Maturità Scientifica**, *Liceo Scientifico “G. Marconi”*, Chiavari, Italy, final mark: 97/100.

PhD thesis

- title *A multicomponent generalization of the KP/CM correspondence*
- supervisor Claudio Bartocci
- date 15 April 2010

Master thesis

- title *Nuove simmetrie per campi di spin intero* (English title: *New symmetries for higher spin fields*)
- supervisor Giuseppe Bandelloni
- date 19 October 2005

Grants

- 2011 Postdoctoral Research Fellowship (3 years) granted by FAPESP (Fundação de amparo à pesquisa do estado de São Paulo), process number 2011/09782-6, c/o the Mathematics Department (ICMC) of the University of São Paulo at São Carlos.
- 2007 Research Fellowship (4 months) granted by the Research Training Network “ENIGMA” (Marie Curie Actions) as Early Stage Researcher, c/o the Mathematical Institute at the University of Oxford.

2006 Fellowship (3 years) granted by the Mathematics Department of the University of Genoa to attend a PhD course in “Mathematics and Applications”.

Publications

- [1] Claudio Bartocci and Alberto Tacchella. Poisson-Nijenhuis structures on quiver path algebras. *Lett. Math. Phys.* To appear. [arXiv:1604.02012](#).
- [2] Igor Mencattini and Alberto Tacchella. A note on the automorphism group of the Bielawski-Pidstrygach quiver. *SIGMA*, 9(037), 2013. [arXiv:1208.3613](#).
- [3] A. Tacchella. On rational solutions of multicomponent and matrix KP hierarchies. *Journal of Geometry and Physics*, 61(8):1319–1328, 2011. [arXiv:1011.1427](#).
- [4] Alberto Tacchella. An introduction to associative geometry with applications to integrable systems. *Journal of Geometry and Physics*. To appear. [arXiv:1611.00644](#).
- [5] Alberto Tacchella. On a family of quivers related to the Gibbons-Hermsen system. *Journal of Geometry and Physics*, 93:11–32, 2015. [arXiv:1311.4403](#).

Talks and posters

- December 21, 2016 “Integrable systems on quivers”, invited talk at the *2016 Christmas workshop on Quivers, Moduli Spaces and Integrable Systems* in Genoa, Italy.
- November 12, 2015 “Calogero-Moser systems from associative geometry”, invited talk at the University of Milano-Bicocca, Italy.
- August 21, 2015 “Calogero-Moser systems from associative geometry”, talk delivered at the conference *Interactions between Geometry and Physics* in Guarujá - SP, Brasil.
- April 7, 2014 “The non-commutative geometry of higher-rank Gibbons-Hermsen systems”, poster presented at the *IV Iberoamerican Meeting on Geometry, Mechanics and Control* at IMPA, Rio de Janeiro, Brazil.
- May 7, 2013 “Noncommutative symplectic and Poisson geometry”, talk delivered at the *Mini-Workshop on Poisson Geometry and Related Topics* at IMPA, Rio de Janeiro, Brazil.
- January 24, 2013 “Group actions on the moduli space of noncommutative instantons”, talk delivered at the *School and Workshop on Moduli Spaces and Mathematical Physics* in Guanajuato, Mexico.
- December 19, 2012 “The (noncommutative) symplectic structure of the (noncommutative) instanton moduli space”, talk delivered at the *2012 Christmas Workshop on Moduli Spaces and Integrable Systems* in Genoa, Italy.
- July 30, 2012 “Noncommutative symplectic geometry of Gibbons-Hermsen varieties”, talk delivered at the *Brazil-Italy Geometry Meeting 2012 (EGBI2012)* in Salvador - Bahia, Brazil.

Other conferences attended

- 7-11 June 2010 *WAGP2010: Deformation, Quantization and Algebraic Index Theorems* (St. Jean de Monts, France).
- 20-23 July 2009 *NCRI09: Noncommutative Geometry in Representation Theory and Integrable Systems* (SISSA, Trieste).
- 14-18 October 2008 *Integrable Systems, Geometry, Matrix Models and Applications* (SISSA, Trieste).
- 25-28 June 2008 *Moduli spaces, enumerative problems and integrable systems* (DIMA, Genova).

Teaching experience

- May 2013 “An introduction to the geometry of integrable Hamiltonian systems”, *mini-curso de extençao* (12 hours total) for advanced graduate and PhD students held at the University of São Paulo, São Carlos.
- June 2007 “Introduction to category theory and sheaves”, short informal course (12 hours total) for PhD students held at the University of Genoa.

Other

- Languages Italian (native), English (fluent), Portuguese (fluent), French (basic).
- Scientific interests Geometric methods in physics, particularly in the theory of completely integrable systems and exactly solvable models.
- Other technical skills
- Very good knowledge of the GNU/Linux operating system (Debian or Debian-based distributions), matured in 20+ years of use and 18+ years of administration of my personal machines.
 - Very good knowledge of the \LaTeX document preparation system and related common packages, including `xy` and `tikz`.
 - In the past I have used (with various degrees of proficiency) the following programming languages: Basic, Pascal, Modula-2, C, C++ and Fortran. Currently I mostly code in Scheme, C and Javascript.
 - Good knowledge of the computer algebra system Maxima.
 - Basic knowledge of modern website design using HTML 5, CSS 3 and Javascript.