

Alessandra Renieri

Contact Informations

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Ph.D. candidate in Information Sciences and Complex Systems (2013-2016)
Mathematics curriculum International School of Advanced Studies, University of Camerino, Italy.
Advisor: Prof. Silvia Benvenuti

Current Position

From October 2015 to January 2016 visiting PhD student at the Institut de Mathématiques de Toulouse, Université Paul Sabatier, under the supervision of Prof. F. Costantino

Member of the Research group “matematita” (Camerino)
Member of the Research group “Unicam Science Outreach” (Camerino)

Master of Science in Mathematics and Applications (12/04/2012)

University of Camerino, Italy.
Mark: 110/110 cum laude.
Thesis: “Quantum computation of the Jones polynomial”.
Advisor: Prof. Riccardo Piergallini

Education

Bachelor of Science in Mathematics and Applications (16/12/2009)

University of Camerino, Italy.
Mark: 110/110 cum laude.
Thesis: “Bernoulli numbers and polynomials. Applications”.
Advisor: Prof. Luigi Mangiarotti

High School Diploma (2006)

Liceo Classico “G. Leopardi”, Macerata, Italy.
Mark: 100/100.

Scholarships and Awards

- UNICAM merit scholarship, “Borsa di eccellenza” (2006–2012).
- Scholarship by Centro De Giorgi, Scuola Normale di Pisa (May 2011) for the attendance at the “Topological Quantum Information” and “Entanglement and Linking” workshops.
- UNICAM – Borsa di perfezionamento all'estero – (Isaac Newton Institute of mathematical Sciences (Cambridge)) (September/December 2012)
- EUROPASS – PROGETTO Leonardo “Ecomotion – Green Skills in motion” 2012. (UNICAM, Confindustria Marche. Technological University of Vienna, Fachbereichsleiter Verkehrssystemplanung Department für Raumentwicklung, Infrastruktur- und Umweltplanung.
- UNICAM poster award (2016) for the Scientific Day 2016.

Language skills

Italian: mother tongue.
English: fluent.
French: basic.

Language Certifications

FCE, Cambridge ESOL certification

Teaching

A.Y. 2016 - 2017 Lecturer for “Matematica” for CTF at Univ. of Camerino.
A.Y. 2014 - 2015 Lecturer for “Computational Fluid Dynamics” (42 hours) for “Matematica e Applicazioni” (LM40) at Univ. of Camerino.
A.Y. 2013 - 2014 Lecturer for “Mathematics” (12 hours) for “Biosciences and Biotechnology” at Univ. of Camerino.
A.Y. 2013 - 2014 Didactic tutor for “Biosciences and Biotechnology” at Univ. of Camerino.
A.Y. 2012 - 2013 Didactic tutor for “Mathematics and logic” at Univ. of Camerino.
A.Y. 2011 - 2012 Didactic tutor for “Biosciences and Biotechnology” at Univ. of Camerino.

Computer skills and competences

Microsoft Office, Latex, Matlab, Mathematica, Comsol, OpenFoam, Salome, Adobe Premiere, Vensim

- Introductory OpenFOAM course delivered at the University of Genova from the 8th to the 12th of July 2013.
- Seminar: On a Summation of a Family of Series, A. Vernescu (Valahia University), Camerino, 5th June 2013;
- Seminar: Two New Accelerated Convergences to Euler's Constant by Convexity, A. Vernescu (Valahia University), Camerino, 6th June 2013;
- Conference: First MATRIX (Mathematics Awareness, Training, Resource, and Information Exchange) Conference2 as an invited speaker, 18-20th September 2014, Dresden;
- Workshop: AIMS-Imaginary Math Communication in Africa Workshop as a invited speaker and collaborator, 5-7th November 2014, Cape Town.
- Intensive course: COMSOL Multiphysics, The Moving Mesh package, Dott. Cesare Tozzo; 25th March 2014, Comsol (Brescia);
- Festival: Galileo Innovactors Festival- Salone Europeo del Trasferimento Tecnologico with grant, 3-5th June 2014, Padova;
- Summer School: CIME-CIRM Course on Mathematical Models and Methods for Living Systems with scholarship by CIME-CIRM, 1-5th September 2014, Levico Terme (TN);
- Course: Tecniche di comunicazione verbale e non verbale nelle attività museali, Dott. Stefano Pasqui, SAIPS, Forli; 25-27th September 2014, Camerino, Science Museum;
- . Festival delle Scienze: Notte con le Stelle, 2-10th August 2015, Associazione Scientifica Non-Profit Notte con le Stelle, Agrigento (Valle dei Templi) and Favara, Italy, as a co-assistant of the ASI-team.

Summer Schools, Courses

- Conference: 5th Journées Hubert Curien, Science and You , 2-6th June 2015, Nancy, France, as a speaker.
- . Convegno Nazionale Incontri con la Matematica n.29, La Didattica della matematica, disciplina per l'apprendimento, 6th-8th November 2015, Castel San Pietro Terme (Bo), Italy, as a speaker and co-assistant.
- INdAM Meeting: Chromatic and colored structures in geometry and statistical physics, 24-30th May 2015, Cortona (Italy).
- School: 2nd EATCS YOUNG RESEARCHERS SCHOOL and TopdrimSCHOOL: Understanding complexity and concurrency through topology of data, 13-22th July 2015, Unicam. (Attendance at the poster session).
- Campus Gutemberg, Communication and Scientific Cultur, 14-15th September 2015, Universitat Pompeu Fabra, Barcelona, Spain.
- . Conference: New perspectives on Science Education, Pixel, Florence, 17-18th March 2016;
- Knots in Hellas 2016, International Conference on knots, low dimensional topology and applications.
- Summer School Scuola Scienza Società , La Morra (CN), 4th-9th September 2016;
- . Conference I matematici risolvono problemi. Idee, protagonisti, proposte didattiche , Siracusa, 30th September - 2nd October 2016;
- . Future attendance at the conference Gi-Mat 2016, Insegnare la Matematica oggi , 21th-22th October 2016, as a speaker;
- . S. Benvenuti, A. Renieri, Big Bang Maths: the big bang moment of a Maths Communication team, Proc. 5th Journées Hubert Curien, Science and You, Nancy, France, 2015.

Papers

- . R. De Leone, I. Giancamilli, S. Manzionna, A. Renieri, An outreach experience: assignment problem and stable marriage in a speed-date context, Proc. 45th Annual Conference AIRO, Pisa, Italy, 2015.
- . S. Benvenuti, I. Giancamilli, D. Malandra, A. Renieri, Matematica in tuta, Proc. 29th Convegno nazionale, Incontri con la Matematica, Castel San Pietro Terme (Bo), Italy, 2015.
- . S. Benvenuti, I. Giancamilli, M. Mattioli, A. Renieri, Intrecci, Proc. 29th Convegno nazionale, Incontri con la Matematica, Castel San Pietro Terme (Bo), Italy, 2015.
- . S. Benvenuti, I. Giancamilli, D. Malandra, A. Renieri, Body cognition ed

educazione della Matematica in età prescolare, accepted in L'insegnamento della matematica e delle scienze integrate, Centro Ricerche Didattiche Ugo Morin.