

CURRICULUM VITAE

GIAMMARCO CAMPANELLA

PERSONAL INFORMATION

- Nationality: Italian
- Date of Birth: 23rd April 1985
- Birthplace: Noci (BA) Italy

EDUCATION

- **PhD in Astronomy (School of Mathematical Sciences/School of Physics and Astronomy - Queen Mary, University of London - 2012 expected), supervisor: Prof. Richard Nelson.**
- **Laurea Specialistica (2-year MSc) in Astronomy and Astrophysics, Università degli Studi di Roma “La Sapienza” (2009), passed with 110/110 cum laude.**
 - I semester in Erasmus at Queen Mary, University of London
 - IV semester preparing my thesis at University College of London
- **Laurea (3-year BSc) in Physics and Astrophysics, Università degli Studi di Roma “La Sapienza” (2007), passed with 110/110.**
- **Diploma di Maturità Scientifica (High School, Science Curriculum), Liceo Classico-Scientifico “Tito Livio” - Martina Franca (2004), passed with 100/100.**

SCHOLARSHIPS

- Doctoral Training Account Scholarship for PhD, QMUL - UK, 2009-2012.
- Università di Roma “La Sapienza” scholarship for Erasmus placement, 2008/09.
- MIUR (Italian Ministry of Education, University and Research) scholarship for Erasmus placement, 2008/09.
- European Union scholarship for Erasmus placement, UK, 2008/09.
- Faculty of Mathematical, Physical and Natural Sciences – Rome “La Sapienza” scholarship for Master's thesis preparation abroad, 2008/09.
- Collegio Universitario “Don N. Mazza” scholarship for Master's thesis preparation abroad, 2008/09.
- INPDAP (Italian National Institute of social security for the public administration employees) scholarship for BSc, 2005/06, 2006/07 and MSc 2007/08, 2008/09.
- European Union scholarship for Erasmus Exchange programme, UK, 2007/08.
- Università di Roma “La Sapienza” scholarship for Erasmus programme, 2007/08.
- MIUR (Italian Ministry of Education, University and Research) scholarship for Erasmus programme, 2007/08.
- Collegio Universitario “Don N. Mazza” scholarship for Erasmus programme, 2007/08.
- IPE (Institute for Researches and Educational Activities) scholarship for BSc, IT, 2005/06 and 2006/07.
- Republic of Malta scholarship for an English Language Course, 2006.

AWARDS

- Excellence Award by Faculty of Mathematical, Physical and Natural Sciences – Rome “La Sapienza”, September 2009.
- “Christian Union of Entrepreneurs Managers” Award for the academic studies undertaken, Rome Palazzi del Laterano, 3th October 2006.
- Bronze Medal at “Internet Italian Championship Torino 2006” for best skills with search engines (final: Turin, March 11th 2006).
- “Advanced Space Academy wings” Award for having completed the Astronaut Mission Specialist Course held by **NASA** (U.S. Space & Rocket Center – Huntsville (Alabama), Oct. 2004), full financial support by ASI (Italian Space Agency).

COMPUTER SCIENCES

- ECDL certificate (Computer European Driving License) gained in 2008.
- Proficient with Office Applications, LaTeX.
- Proficient with Data analysis software: Origin, Gnuplot, SExtractor.
- Proficient with C/C++ programming language, Fortran77/90, Mathematica.
- Proficient with UML modeling language.
- Good knowledge of IDL, Python, Java, Minitab, Unix Environment, HTML.

LANGUAGES

Qualifications

- University of Cambridge’s “Certificate in Advanced English” level C1, British Council Rome (2007).
- “Diplôme d’études en langue français” level A2, Alliance Française Bari (2002).

Courses

- English proficiency course - level C2, Rome (2009).
- English Language Course, University of Malta (2006).
- English Language Course, “Whitelands College” – London (2000).

TEACHING

- Teaching Assistant for the courses Actuarial Mathematics, Further Topics in Mathematical Finance, Introduction to Mathematical Finance, Engineering Mathematics II, Dynamics of Physical Systems, Calculus II, Introduction to Statistics and Introduction to Probability; tutor for Applied Mathematics and Statistics, Queen Mary University of London, 2011/12.
- Teaching Assistant for the courses Introduction to Probability, Discrete Techniques for Computing, Dynamics of Physical Systems, Mathematics I, Introduction to Statistics, Mathematics II, Differential Equations and Actuarial Mathematics; tutor for Applied Mathematics and Statistics, QMUL, 2010/11.
- Teaching Assistant for the courses Mathematical Writing, Differential Equations and Calculus II; tutor for Applied Mathematics, Queen Mary University of London, 2009/10.

PARTICIPATION TO SCIENTIFIC MEETINGS

- Oral presentation, NAM 2012, University of Manchester, UK, March 2012.
- Poster presentation, Postgraduate Research Day, School Physics&Astro QMUL, February 2012.

- Oral presentation, Astronomy Postgraduate Student Seminars, QMUL, February 2012.
- Poster presentation, UKPF 9th Early Career Planetary Scientists' meeting, Open University, Milton Keynes - UK, January 2012.
- Poster presentation, Postgraduate Research Day, School of Maths QMUL, May 2011.
- Oral presentation, Astronomy Postgraduate Student Seminars, QMUL, November 2010.
- Oral presentation, Café Scientifique, Queen Mary University of London, November 2010.
- Oral and poster presentation, COSPAR 2010/Intern. Space Education Board Student Program (full financial support by ESA, Royal Society), Congress Centre, Bremen – Germany, July 2010.
- Oral presentation, AbGradCon 2010 (full financial support by NASA, DLR, Stockholm University), Tällberg - Sweden, June 2010.
- Poster presentation, Putting our Solar System in Context: Origin, Dynamical and Physical Evolution of Multiple Planet Systems (full financial support by QMUL, European Science Foundation), Universitätszentrum Obergurgl, Obergurgl (Innsbruck) - Austria, April 2010.
- ESA's Exoplanet Roadmap Advisory Team Workshop, University College London, April 2010.
- Oral and poster presentation, Young Researchers Meeting Rome 2010 (full financial support by the host organization), Università di Roma "La Sapienza", Rome - Italy, February 2010.
- Oral presentation, Astronomy Postgraduate Student Seminars, QMUL, January 2010.
- Oral and poster presentation, UCF Winter Workshop 2010: Exoplanets for Planetary Scientists (full financial support by QMUL, Royal Astronomical Society, UCF), University of Central Florida, Orlando, FL – USA, January 2010.
- Oral presentation, Planetary Systems Discussion Group, QMUL, Nov. 2009.
- UK THESIS Workshop, University College London, November 2009.
- 2009 Introductory Summer School in Astronomy for New Research Students (full financial support by QMUL, Royal Society funds), University of St Andrews, Scotland-UK, August 2009.
- JENAM 2009, University of Hertfordshire, Hatfield, UK, April 2009.

PUBLICATIONS IN PEER REVIEW JOURNALS

- **G. Campanella**. Treating dynamical stability as an observable: a 5:2 MMR configuration for the extrasolar system HD 181433. *MNRAS* 418, 1028-1038, (2011). (arXiv: 1108.0360)
- J.P. Beaulieu, D. Kipping, V. Batista, G. Tinetti, I. Ribas, S. Carey, J. A. Noriega-Crespo, C. Griffith, **G. Campanella**, S. Dong, J. Tennysson, R. Barber, P. Deroo, S. Fossey, D. Liang, M. Swain, Y. Yung, N. Allard. Water in the atmosphere of HD 209458b from 3.6-8 μm IRAC photometric observations in primary transit. *MNRAS* 409, 963-974, (2010). (arXiv:0909.0185)
- D. Kipping, S. J. Fossey and **G. Campanella**. On the detectability of habitable exomoons with Kepler-class photometry. *Mon. Not. R. Astron. Soc.* 400, 398-405, (2009). (arXiv:0907.3909)

CONFERENCE PROCEEDINGS

- D.M. Kipping, S.J. Fossey, **G. Campanella**, J. Schneider, G. Tinetti. Pathways Towards Habitable Moons, Proceedings for "Pathways Towards Habitable Planets" Symposium, Barcelona, Spain. ASP Conference Series, Vol. 430, (2010). (arXiv:0911.5170)
- D.M. Kipping, S.J. Fossey & **G. Campanella**. The Detectability of Habitable Exomoons, Proceedings for "IAU's XXVII General Assembly" (SpS6), Rio de Janeiro, Brazil, August 2009.

CONFERENCE SCIENTIFIC ORGANIZING COMMITTEES

- Co-Convener with H. Lammer and H. Rauer, session “Origins, Exoplanets and Astrobiology: Comparative planetology beyond the Solar System” at European Planetary Science Congress 2010, Rome, 19 – 24 September 2010.

THESES

- The Search for Exomoons and the Characterization of Exoplanet Atmospheres (MSc’s thesis) Supervisors: Dr. A. Melchiorri/Dr. G. Tinetti – September 2009. (arXiv: 0910.0484)
- The Search for Exoplanets (BSc’s dissertation) Supervisor: prof. P. Giannone – February 2008.

SELECTED ACTIVITIES FOR PUBLIC OUTREACH

- Organizer for the event part of the SEPnet Outreach activities “What is Physics? A GCSE Physics taster” at Queen Mary University of London, November 2010 and November 2011.
- Guest Scientist at The Royal Observatory, Greenwich, December 2010.
- Participation to "Forschung aktuell" (Current Science) daily science broadcast of DLF (Deutschlandfunk/German Public Radio), April 2010.

OTHER PUBLICATIONS

- The Search for Exomoons and the Characterization of Exoplanets, Are we alone in the Universe? “LAP Lambert Acad. Publ.” ISBN: 3838322800 – November 2009 – Germany.
- The Search for Exoplanets “Ammazza!” number 6 – October 2007 – Rome.
- ESA “Ammazza!” number 4 – April 2007 – Rome.
- Is Pluto a Planet? “Ammazza!” number 3 – December 2006 – Rome.
- A SHORT HISTORY OF THE ROMAN CALENDAR “LOCOROTONDO” number 25 – August 2006 published by BCC of Locorotondo (BA - Italy).

OTHER WORK EXPERIENCES

- 2008 Computer collaborator for UCID (Christian Union of Entrepreneurs Managers).
- Academic Year 2006/07: Fellowship at the Faculty of Mathematical, Physical and Natural Sciences – Rome “La Sapienza”.
 - ERASMUS tutor - Department of Physics.
- Academic Year 2005/06: Fellowship at the Presidency of the Faculty of Mathematical, Physical and Natural Sciences – Rome “La Sapienza”.
 - Management of the internet site of the Faculty.
- Responsible for TV Channel “Tele Locorotondo”.

OTHER ACTIVITIES

- Events manager of the “Italian Society”, QMUL for the Academic Year 2011/12.
- Member of the Italian Physical Society (SIF) 2009, 2010.
- Member of the International Statistical Institute Astrostatistics Network.
- Participation to the training session “Outreach activities for Postgraduate Students” Queen Mary University of London, October 2010.

- Participation to the workshop "Supporting Postgraduate Students who teach Mathematics & Statistics" Queen Mary University of London, October 2009.
- Participation in ESA's Columbus Essay Contest: essay in English about 'The value of human spaceflight for European citizens', October 2007.
- Participation to the ESA competition "Help to shape Europe's future in space": essay in English about the benefits of the Space Research for Europe, December 2006.
- President of the "Library Commission" at the University College "Don N. Mazza" of Rome for the Academic Years 2005/06 and 2006/07.