

CURRICULUM VITAE

Name: Pamela

Surname: Cambianica

Date of Birth: 01/07/1988

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Education

- 2016-present
PhD School in Space Sciences, Technologies and Measurements (STMS PhD course)
Curriculum: “Sciences and Technology for Aeronautics and Satellite Application (STASA)”
@ CISAS (Centre for Studies and Activities for Space) “Giuseppe Colombo” - University of Padova, Italy.

Project Topic: **Analysis of fragmentation processes on the 67P/Churyumov-Gerasimenko surface from the OSIRIS images**

In cooperation with the National Institute for Astrophysics (INAF)

Supervisor: Prof. Giampiero Naletto (University of Padova)

Co-Supervisor: Dr. Gabriele Cremonese (National Institute for Astrophysics)

- 2014-2016
Master Degree in Astronomy – University of Padova, Italy
Final Grade of 110/110 with Honours

Topic of dissertation: **Correlation between insolation model and boulder deposits on 67P/Churyumov-Gerasimenko comet**

Supervisor: Prof. Francesco Marzari (University of Padova)

Co-Supervisor: Dr. Gabriele Cremonese (National Institute for Astrophysics)

- 2008-2014
Bachelor Degree in Astronomy– University of Padova, Italy

Topic of Dissertation: **Planetary Transits of the Inner Solar System Seen by Asteroids**

Supervisor: Dr. Lazzarin Monica (University of Padova)

Co-Supervisor: Dr. Simone Zaggia (National Institute for Astrophysics)

Conferences

- **“From Giotto to Rosetta: 30 years of Cometary Science from Space and Ground”**
Padova, October 27th – 29th, 2016
- **“LXI Congresso della Società Astronomica Italiana”**
Padova, September 12th-15th, 2017

Seminars

- **“Impactful Speeches”** Dr. Luigi Salmaso
- **“How to disseminate scientific knowledge”**, Dr. Massimo Polidoro
- **“Electro Magnetic Formation Flying (EMFF)”**
“The SPHERES micro-satellites system”
“Sparse Aperture Synthesis”
“Reconfigurable Constellation”, Prof. David Miller
- **“Optical design of the Wide Angle Camera for the Rosetta mission: on-ground realization and in-flight results”**, Prof.ssa Da Deppo Vania
- **“Vehicle Mechanics”** Prof. Franceschini Giordano
- **“Gravitational Waves and Quantum astrophysics”**, Prof Barbieri Cesare
- **“L'ASI, la Ricerca di Base e la Ricerca Applicata: tematiche e possibili sinergie”**, Lectio Magistralis del Prof. Roberto Battiston

Courses

- **Preparation of a research proposal** (Prof. Giampiero Naletto UNIPD)
- **Space optics and detectors** (Prof. Giampiero Naletto, Prof. Maria Guglielmina Pelizzo UNIPD)
- **Space system and their control** (Prof. Enrico Lorenzini, Prof. Alessandro Francesconi UNIPD)
- **Exploring the Solar System and its environment** (Prof. Gabriele Cremonese, Prof. Francesco Marzari UNIPD)
- **Mechanical and thermal properties of material for aerospace constructions** (Prof. Ugo Galvanetto, Prof. Mirco Zaccariotto UNIPD)
- **Aerospace Propulsion** (Prof. Daniele Pavarin, Dr. Marco Manente UNIPD)

Presentation

- **“Fragmentation processes on the 67P/Churyumov-Gerasimenko surface from the OSIRIS images”**, admission to first year @ CISAS and “From Giotto to Rosetta” conference
- **“OSIRIS images based fragmentation numerical modeling”**, OSIRIS Full Team Meeting, Madrid 2017

Fellowship/School/Honours/Awards

- VII International Course: “**Detectors and Electronics for High Energy Physics, Astrophysics, Space Application and Medical Physics**”, INFN, April 3th-7th, 2017, Legnaro
- Summer School SDSM 2017, “**Satellite Dynamics and Space Mission**”, San Martino al Cimino, Viterbo, 28 August – 2 September 2017.

Accademic Experience/Teaching and Outreach

- 2014, 2015, 2016 **Notte dei Ricercatori** (The night of researchers), public conferences at the Osservatorio Astronomico di Padova, Padova, Italy (<http://venetonight.it/>)
- 2015, 2016 Scientific Consultant @ **Bergamo Scienza** (<http://www.bergamoscienza.it>)

Publications

Conference proceedings

- Lucchetti, A.; Cremonese, G.; **Cambianica, P.**; Daubar, I.; McEwen, A. S.; Re, C.
“Numerical Modelling and Ejecta Distribution Analysis of a Martian Fresh Crater”
American Geophysical Union, Fall Meeting 2015, abstract #P53D-2152
- Cremonese, G.; Borin, P.; **Cambianica, P.**; Lucchetti, A.; Daubar, I.; McEwen, A. S.;
Marzari, F.
“New Impactor Flux Estimate on Mars and Its Application on Fresh Craters”
Bridging the Gap III: Impact Cratering In Nature, Experiments, and Modeling,
held 21- 26 September, 2015 at University of Freiburg, Germany. LPI Contribution No.
1861, p.1044