Chantal Cappelletti, PhD

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RESEARCH INTERESTS

CubeSat, Small Satellites, Space Systems, Biomedical Research in Space, Space Debris.

EDUCATION

- PhD in Aerospace Engineering, 2012, Sapienza University of Roma, Italy
- MEng in Astronautical Engineering, 2008, Sapienza University of Roma, Italy
- BEng in Aerospace Engineering, 2005, Sapienza University of Roma, Italy

PROFESSIONAL EXPERIENCE

- Assistant professor, Department of Mechanical, Materials and Manufacturing Engineering, **University of Nottingham**, March 2018 – present
- Assistant professor, Faculdade de Gama, **University of Brasilia**, February 2013 – February 2018
- Chief Executive Officer (**CEO**), **G.A.U.S.S. Srl**, 2012- 2013
- Senior Teaching Assistant for the High-Level Postgraduate Advanced Course in Aerospace Engineering, **Department of Astronautical Engineering**, Sapienza University of Roma, Italy, 2012-2014
- External Consultant in Small Satellites Projects, **Brazilian Space Agency**, February 2013 – February 2018
- Teaching Assistant for Astrodynamics of Space Systems Chair *(Prof Filippo Graziani),* **Sapienza University of Roma**, Italy, 2009-2012
- Teaching Assistant for Space Systems Chair *(Prof Robert J. Twiggs),* **Morehead State University**, USA, 2009-2012

- **RESEARCH / FIELD WORK EXPERIENCE**
  - Project Manager of the following CubeSat and Small Satellites Missions:
    - WormSail 2020-present
    - TuPod
    - SERPENS
    - UniSat-5
    - UniCubeSat-GG
    - EduSat.it
  - Principal Investigator of the following mission:

- o GlioLab Precursor missions in STS-134 and STS-135
- o UniSat-6

- Responsible of the Space Debris Observatories:
  - o SPADE – First Italian Observatory dedicated to Space Debris Observations
  - o SPID– First Italian-Russian Observatory dedicated to Space Debris Observations
  - o IADC Delegate for Italian Space Agency
- Other Projects
  - o MRFOD
  - o HPH.com
  - o Launch responsible for several missions:
    - **CubeSats** (PUCP-Sat-1, ICUBE-1, HUMSAT-D, Dove-4, AESP-14, AntelSat, Lemur-1, AeroCube6, TigriSat)
    - **PocketQubeSats** (Eagle1, Eagle2, QBScout, WREN)
    - **TubeSat** (Tancredo 1, OSNSAT)

PERSONAL SKILLS AND COMPETENCES

- **Languages:**

  - Italian (Mother tongue)
  - English, Portuguese (Proficient User)
  - French (Independent User)
- **Softwares:**
  - o CAD: CATIA, SolidWorks, Fusion 360
  - o FEM: Ansys, MSC Nastran, Patran, Femap,
  - o Others: Sofware Bisque: TheSky; Ccd Soft; Orchestrate; IAclient, IAserver; Maxim Dl, ESA PROOF-2005, Thermal Desktop, Ham Radio Deluxe suite, STK, Orbitron, FreeFlyer, GMat, LATEX.

HONORS / AWARDS

- 2019 International Academy of Astronautics (IAA) Engineering Sciences Award
- 2012 Italian Society for Aerospace Medicine (AIMAS) - "I Guidoniani" prize in the field of biomedical research in space

MEMBERSHIPS / AFFILIATIONS

- International Academy of Astronautics (IAA)
- Association of Italian researchers in Brazil (APIB)
- Italian Society for Aerospace Medicine (AIMAS)