

<b>Personal Information</b>	Date of birth: 2 <sup>nd</sup> November 1985 Address: 2800 Wisconsin Avenue NW, Washington, DC, 20007 Phone: (202)-870-0762	
<b>Work Experience</b>	<b>Massachusetts Institute of Technology (Cambridge, MA) Earth, Atmospheric and Planetary Sciences Department</b> Postdoctoral Associate at NASA Goddard Space Flight Center (GSFC), 8800 Greenbelt Rd., Greenbelt, MD, 20771 Advisors: Prof. Maria Zuber, Prof. David E. Smith <ul style="list-style-type: none"> <li>• Precise Orbit Determination using radio tracking data</li> <li>• Processing of laser altimeter and images data</li> <li>• Estimation of planetary and satellite gravity field and topography</li> </ul>	04/2013-present
	<b>“La Sapienza” University of Rome (Rome, Italy) Dipartimento di Ingegneria Meccanica e Aerospaziale</b> Research assistant Advisor: Prof. Luciano Iess <ul style="list-style-type: none"> <li>• Numerical simulations of the radio science and rotational experiments of the ESA mission BepiColombo</li> <li>• Precise Orbit Determination of the NASA mission MESSENGER</li> <li>• Gravity analysis of Titan</li> </ul>	12/2009-03/2013
	<b>European Launch Vehicle (Colleferro (RM), Italy) ELV – Operation</b> Consultant Advisor: Christophe Roux Interplanetary trajectory optimization for the launch vehicle VEGA	12/2011-10/2012
	<b>NASA Goddard Space Flight Center</b> Foreign Visitor	04/2012-05/2012
<b>Teaching Experience</b>	<b>“La Sapienza” University of Rome</b> University assistant <ul style="list-style-type: none"> <li>• Lectures and exams about orbit and attitude determination</li> <li>• Control theory</li> </ul>	03/2011-03/2013
<b>Education</b>	<b>“La Sapienza” University of Rome</b> Ph.D. in Aerospace Engineering	2009-2013
	<b>“La Sapienza” University of Rome</b> M.S. in Astronautical Engineering	2007-2009
	<b>“La Sapienza” University of Rome</b>	2004-2007

Bachelor's Degree in Aerospace Engineering

- Publications**
- A.Genova, M. Marabucci, L.Iess, '*A batch-sequential filter for the BepiColombo radio science experiment*', Journal of Aerospace Engineering, Sciences and Applications, VI: 17-30, 2012.
  - A.Genova, L.Iess, M. Marabucci, '*Mercury's gravity field from the first six months of MESSENGER data*' Planetary and Space Science, <http://dx.doi.org/10.1016/j.pss.2013.02.006>, 2013

- Presentations**
- A.Genova, M.Marabucci, L.Iess, '*MORE: Recovery of Mercury gravity field and MPO orbit*', BepiColombo Geodesy and Geophysics WG, Berlin July 1<sup>st</sup>-2<sup>nd</sup>, 2010
  - A.Genova, M.Marabucci, L.Iess, '*Mercury's gravity field and orbit determination from the radioscience experiment of the mission BepiColombo*', European Planetary Science Congress, Rome September 19<sup>th</sup>-24<sup>th</sup>, 2010
  - A. Genova, M. Marabucci, L. Iess '*Mercury radio science experiment of the mission BepiColombo*', X Congresso di Scienze Planetarie, Bormio January 17<sup>th</sup>-21<sup>th</sup>, 2010
  - A. Genova, L. Iess '*Manoeuvres: Planning and Requirements*', MORE Operations Interface meeting, ESOC, Darmstadt February 17<sup>th</sup>, 2011
  - A. Genova, M. Marabucci, L. Iess '*A batch-sequential filter for the BepiColombo radio science experiment*', 22<sup>nd</sup> International Symposium on Space Flight Dynamics, San José dos Campos, Brazil, February 28<sup>th</sup> – March 4<sup>th</sup> 2011
  - A. Genova, M.Marabucci, L. Iess '*BepiColombo radio science experiment: determination of Mercury's gravity field*', European Geosciences Union General Assembly 2011, Vienna, Austria, April 7<sup>th</sup> 2011
  - M.Marabucci, L.Iess, A.Genova, '*Numerical simulations of the radioscience experiment of the mission BepiColombo to Mercury*', 20<sup>th</sup> AAS/AIAA Space Flight Mechanics Meeting, San Diego February 14<sup>th</sup>-17<sup>th</sup> 2010
  - M.Marabucci, A.Genova, L.Iess, '*Simulations of the impact of the RW maneuvers on MORE experiment*', BepiColombo Progress Meeting, Rome July 8<sup>th</sup> 2010

**Languages & I.T. Skills** Italian (native)  
English (fluent)

Word, Excel, Access  
Internet and E-Mail  
Matlab and Simulink  
STK  
ODP (Orbit Determination Program)  
Fortran 77/90, C/C++  
GEODYN

**Memberships** Ordine degli Ingegneri della Provincia di Roma