

## Curriculum Vitae – Alessandra Mastrobuono-Battisti

### PERSONAL INFORMATION

**Name:** Alessandra Mastrobuono-Battisti

**Address:** GEPI - Observatoire de Paris, Bâtiment 11, 5, Place Jules Janssen, 92195 Meudon (France)

**ORCID:** 0000-0002-2386-9142; **SCOPUS Author ID:** 35174814200

**URL for website:** [www.mpia.de/~mastrobuono](http://www.mpia.de/~mastrobuono), [www.astro.lu.se/alessandra-mastrobuono-battisti](http://www.astro.lu.se/alessandra-mastrobuono-battisti)

### CURRENT AND PAST POSITIONS

- 2021 – **Horizon2020 Group Leader, MSCA**, GEPI, Observatoire de Paris (France)
- 2020 – 2021 **Researcher**, Lund Observatory, Lund (Sweden)
- Maternity leave** (Feb 2020 – Oct 2020)
- 2015 – 2019 **Independent Research Fellow (MPIA prize fellowship)**, Galaxies and Cosmology Department, Max-Planck-Institut für Astronomie, Heidelberg, Germany
- 2012 – 2015 **Postdoctoral Fellow (Lady Davis Fellowship)**, Physics Department, Technion-Israel Institute of Technology, Haifa, Israel

### EDUCATION

- 2012 **PhD in Astronomy**; Classification: Excellent;  
Department of Physics and Astrophysics, Sapienza University of Rome, Italy  
Supervisor: Prof. Roberto Capuzzo-Dolcetta
- 2008 **Master's Degree in Astronomy and Astrophysics**  
Grade: 110/110 summa cum laude;  
Department of Physics and Astrophysics, Sapienza University of Rome, Italy
- 2006 **Bachelor's Degree in Physics and Astrophysics**  
Grade: 110/110 summa cum laude;  
Department of Physics and Astrophysics, Sapienza University of Rome, Italy

### FELLOWSHIPS AND GRANTS

- 2021 – 2023 PI of **Horizon2020 Individual Funding**. Project title: “THESYS: The build-up and fate of self-gravitating systems in the Universe”, Funding body: **Horizon2020 MSCA IF**, call for proposals: Marie Curie IF 2020 (**Horizon2020 MSCA plus additional funding to build a group, for a total of about 250.000EUR**, 01-09-2021 to 31-08-2023). Host institution: GEPI, Observatoire de Paris.
- 2015 – 2019 **MPIA Prize Fellowship**. Project Title: “Globular and nuclear clusters across the Universe.” Funding body: MPIA/Max-Planck-Gesellschaft (**250.000EUR**, 01/10/2015-31/12/2019), call for proposals: MPIA 2015 prize fellowship. Host institution: Galaxy and Cosmology Department, Max-Planck-Institut-für-Astronomie, Heidelberg, Germany.
- 2012 – 2014 **Lady Davis Fellowship**. Funding body: Lady Davis Fellowship Trust, call for proposals: Lady Davis fellowship 2012 and 2013 (**18000USD**, 01/11/2012-31/10/2014). This fellowship is awarded to the most talented and promising postdoctoral scholars of the Hebrew University and of the Technion based on their CV. Host institution: Technion, Israel.
- 2012 **HPC-Europa2 grant**, to visit a foreign institution for 8 weeks and 50000 CPU hours and unlimited GPU hours for 3 months, on GENCI/CINES resources. Project Title: “Globular cluster evolution in the Galactic field”, Funding body: **Horizon2020**, call for proposals: **HPC-Europa2 2011 (3.000EUR**, 20/01/2012-19/03/2022). Host institution: Paris Observatory.
- 2008 – 2011 **PhD Scholarship**, Sapienza University of Rome, Doctoral School of Astronomy. Project Title: “Globular clusters and galactic nuclei”. Funding body: Italian Ministry of Education, University and Research. Call: 2008 National competition (**50.000EUR**, 01/11/2008-31/10/2011). Host institution: Sapienza University of Rome.

### PRIZES AND AWARDS

- 2016 **“Immagine”** prize for the outstanding scientific career, awarded by “Associazione Immagine”, Latina, IT. Annual award for outstanding scientists (10/12/16).
- 2016 **“Lievito 2016”** prize, awarded by “Associazione Lievito”, Latina, IT. Annual award for outstanding scientists (25/04/16).
- 2015 **“Latina va in Scena”** prize for the outstanding scientific achievements. Award from Latina County

in Italy (28/06/15).

2015 **Formal recognition (in Italian: “Menzione d’onore”)** from the city of Pontinia (25/05/15).

2011 Prize for one of the five best talk abstracts, Cefalù Meeting 2011.

### SUCCESSFUL FUNDING PROPOSALS

2020 **PI** for the Marie Curie Standard Individual Fellowship proposal “THESYS: The build-up and fate of self-gravitating systems in the Universe” (~200,000EUR, Feb. 2020).

2017 **Co-PI** for a conference proposal funded by the German Research Foundation (DFG) through the Collaborative Research Centre (SFB 881) “The Milky Way System”, **11,000EUR** granted for the organisation of the successful international conference “*Survival of dense stellar clusters in the Milky Way system*”, Heidelberg, 19-23 Nov. 2018.

2016 **Co-I** for the DAAD–PPP proposal “Visitors to Our Neighbourhood: Identifying and exploiting accreted star clusters in the Milky Way’s halo”, PI: Ryan Leaman, **30,000EUR**.

2016 **Co-I** for two SFB881 conference-funding proposals for: **i)** the international workshop “The exciting lives of galactic nuclei”, 27/02-03/03/2017, Ringberg Castle and **ii)** the international conference “Piercing the Galactic darkness: Stellar populations in highly extincted regions of the Milky Way”, 16-19/10/2017, Heidelberg (**20,000EUR**).

2016 **PI and Co-I** for several SFB881 funding proposals for MPIA visitors (~10,000EUR).

2015 **PI** for an **MPIA Fellowship** proposal to join the Max-Planck-Institute for Astronomy (Heidelberg, Germany) “Galactic Nuclei” group led by N. Neumayer as an independent research fellow (~250,000EUR).

2012 **PI** for a **Lady Davies Fellowship** proposal to join the AstroTech group led by H. Perets at the Technion (Israel; **18000USD** to support living expenses).

2011 **PI** for an HPC-Europa2 proposal (see Fellowships and Grants, **3,000EUR**).

### SUCCESSFUL COMPUTING AND OBSERVING TIME PROPOSALS

2021 **PI** of a SNIC computing proposal, granted resources 120,000 GPU/CPU hours on Swedish supercomputers. Project: “The origin of the Galactic nucleus”.

2020 **Co-I** for the **Hubble Space Telescope proposal Cycle 28** observing proposal “Digging into the mystery of the Galactic globular clusters M22 and NGC1851” (PI: Annalisa Calamida, STScI).

2017 **Co-PI** for a CINECA proposal, granted resources: 200000CPU/GPU hours (for 9 months). Project: “Formation of nuclear clusters through mergers of a realistic population of globular clusters”.

2014 **Co-PI** for a LinkSCEEM/Cy–Tera proposal, granted resources: 12000 GPU hours available for 12 months. Project: “Formation and evolution of dense stellar clusters”.

2014 **Co-I** for a GEMINI proposal, “The Milky Way nuclear star cluster as a benchmark for the structure and build-up of galactic nuclei” (PI: Anja Feldmeier-Krause, ESO).

2011 **Co-I** for a CFHT proposal, “The extended tidal tails of Palomar 14” (PI: Prof. D. Valls-Gabaud, Observatoire de Paris).

### SUPERVISION OF STUDENTS (6 PhD students, 2 Master students and 1 Bachelor student supervised)

2021 – **Supervisor: Master student Lisa Delit** (ELISA Aerospace, France). **Funded through my personal Horizon2020 grant.** Project: “Globular cluster disruption and the link with the Galactic nucleus”, GEPI, Paris. **Supervisor: Master student Mariasole Maglione** (Padova University, Italy). Project: “Multiple populations in globular clusters”, GEPI, Paris. **Supervisor: PhD student Elena Lacchin.** Project: “Mass loss in Magellanic Clouds Globular Clusters”, GEPI and INAF, Bologna. **Co-supervisor: PhD student Giulia Pagnini.** Project: “The early and late evolution of our Galaxy through the lens of globular clusters”. GEPI, Paris.

2017 – 2021 **Supervisor: PhD student Francisco Aros.** Project: “Intermediate mass black holes in globular clusters”, MPIA, Germany. Graduated in July 2021 (magna cum laude). Two published papers. **Supervisor: Bachelor student Robin Herlan.** Project: “Dark matter density profiles in dwarf galaxies: the case of Sagittarius”, MPIA, Heidelberg, Germany. **Successfully graduated on 19/06/2018.** One submitted paper.

2012 – 2017 PhD student supervision: **Danor Aharon** (Technion, Israel), **Athanasia Tsatsi** (MPIA, Germany) and **Federico Abbate** (Milan University, Italy). This supervision resulted in three publications, one for each student.

### TEACHING EXPERIENCE

2021 **Lecturer**, 1<sup>st</sup> year MS, “High-energy Astrophysics”, Lund Observatory (Sweden).

2020 **Lecturer**, 1<sup>st</sup> year MS, “Stellar Structure and Evolution”, Lund Observatory (Sweden).

2009 – 2010 **Teaching Assistant**, 3<sup>rd</sup> year BS, *Numerical Methods in Astronomy*, Department of Physics and Astrophysics, Sapienza University of Rome, Italy.

## ORGANISATION OF SCIENTIFIC MEETINGS

- 2021 **(1) SOC member** for the conference “Multiple stellar populations in the next decade” (to be held in Padova, Italy, delayed due to the covid outbreak, <https://indico.ict.inaf.it/event/994/>) **(2) SOC member and Co-I of the proposal** for the “MPG-Ringberg meeting: Formation and evolution of the Galactic Center”, Ringberg, Germany (delayed due to the covid outbreak).
- 2019 **SOC member and Co-I of the proposal** for the **EWASS special session** “The dynamics of stellar clusters”, Lyon (24-28/06/2019).
- 2018 **Principal organiser, chair of the SOC and PI of the funding proposal** for the conference “Survival of dense stellar clusters in the Milky Way system”, 85 participants, Heidelberg, Germany (19-23/11/2018).
- 2017 **(1) SOC member, discussion moderator and LOC co-chair** for the meeting: “Piercing the Galactic darkness”, 70 participants, Heidelberg, Germany (16-19/10/2017). **(2) Principal organiser, SOC and LOC member** for the MPA Galaxy and Cosmology Department annual retreat, 90 participants, Schöntal, Germany (22-24/05/2017). **(3) SOC member and discussion moderator** for the meeting: “The exciting lives of galactic nuclei”, 40 participants, Ringberg, Germany (27/02-03/03/2017).
- 2011 **LOC member** for the meeting: “Advances in Computational Astrophysics: methods, tools and outcomes” 2011, 80 participants, Cefalù, Italy (13-17/06/2011).

## INSTITUTIONAL RESPONSIBILITIES

- 2021 – **Co-organiser** of the “Paris Observatory Joint Galaxies and Cosmology Seminar”: <https://ggsapi.obspm.fr/seminars/>.
- 2021 **Referee and committee member** for the examination and evaluation of a **Master’s Thesis** (Sweden). I read and refereed the Thesis as well as been a panel member for the Thesis evaluation during the Thesis defence.
- 2021 **Referee and committee member** for the examination and evaluation of a **Bachelor’s Thesis** (Sweden, see above for the performed tasks).
- 2018 – Member of **Gaia DPAC consortium (CU6 group)**.
- 2017 **Main organiser for one conference and SOC member for 7**. Chair of the LOC for one conference, LOC member for 2 conferences.
- 2016 – 2021 **Weekly group meetings organiser and chair** (Sweden and Germany).
- 2016 – 2019 Member of several **committees for the selection of future postdocs, PhD students, and internship students**, MPA, Heidelberg, Germany.
- 2013 – Referee for **MNRAS, A&A and ApJ**.

## PUBLICATION SUMMARY: 1986 citations (ADS, as of 03/2022)

- *h*-index: 19;
- 40 publications in peer-reviewed, high impact-factor journals:
- 10 as **first author** including: 1 **Nature** paper as **first author**; 15 as **second or third author**.
- 14 conference proceedings (10 refereed, 8 as first author).

## PUBLIC LECTURES, TALKS AND SEMINARS SUMMARY

- 7 invited talks at conferences (since 2014);
- 11 public outreach seminars/lectures (including a **TED<sup>x</sup> talk**, since 2015).
- 20 invited colloquia/seminars at international institutes (since 2012);
- 28 contributed talks at conferences (since 2010).

## PUBLIC LECTURES

- 2021 Astronomisk Ungdom Space Research School lecture for high school students, Lund, Sweden (27/07)
- 2019 Public lecture on the origin of the Universe and of the solar system, Latina, Italy (26/10)
- 2019 Public talk on the origin of the Moon and of the solar system, Florence, Italy (23/07)
- 2019 Lectio Magistralis for the 50th Anniversary of Apollo 11 Moon Landing, Latina, Italy (20/07)
- 2018 **TED<sup>x</sup> Castelfranco talk**: “Scientific puzzles: the formation of the Moon”, Castelfranco Veneto, IT (06/10).
- 2016 Invited public lecture for high school students in Latina, IT (25/04).

- 2016 Invited public lecture for University students and staff in Latina, IT (26/04).
- 2015 Invited public lecture at the Italian cultural centre in Haifa, IL (29/06).
- 2015 City Hall lecture for the Mayor and City Council, Pontinia, IT (25/05).
- 2015 Invited public lecture for secondary school students, Pontinia, IT (25/05).
- 2015 Invited public lecture at the Italian cultural centre in Tel Aviv, IL (04/04).

#### INVITED CONFERENCE TALKS (7 talks)

- 2022 “The Puzzles of the Galactic Centre”, Heidelberg, Germany, 5-7/09. Invited review talk on the open questions on the formation of nuclear star clusters. The talk will be followed by a discussion that I will lead.
- 2020 “Uncovering the Physics of Formation of Globular Clusters and their Host Galaxies”, KITP, Santa Barbara, US, 11-14/05/2019, postponed due to the Covid19 outbreak. Invited talk: “The dynamics of merging globular clusters”.
- 2018 “Multiple populations in Globular clusters”, Sexten, Italy, 09-13/07. Invited talk: “On the merger origin of metallicity spreads in globular clusters”.
- 2018 MPIA Galaxy and Cosmology Retreat 2018, Lobbach, Germany, 14-16/05. Invited talk: “The chemo-dynamical evolution of the Solar System”.
- 2017 Cefalù meeting 2017, “The amazing life of stars”, Cefalù, Italy, 04-08/09. Invited review talk: “The formation and evolution of Nuclear star clusters”.
- 2014 The Alajar meeting 2014, “Growth and evolution of the Milky Way’s nuclear star cluster and its central black hole”, Alajar, Spain, 20-28/09. Invited talk: “The formation and evolution of Nuclear star clusters”.
- 2014 Sexten CfA 2014, “Stellar  $N$ -body Dynamics”, Sexten, Italy, 08-12/09. Invited talk: “The formation and evolution of Nuclear star clusters”.

#### INVITED SEMINARS/COLLOQUIA (20 seminars in several international institutes)

- 06/05/2021 “Merging globular clusters in an evolving galaxy”, Observatoire de Paris, FR
- 22/05/2020 “Stellar cluster mergers and star formation in galactic nuclei”, University of Zurich, CH
- 21/11/2019 “Globular cluster mergers and star formation at the Galactic Centre”, INAF Bologna, IT
- 14/11/2019 “Merging globular clusters in an evolving galaxy”, Lund Observatory, SW
- 05/03/2019 “The hidden link between globular and nuclear clusters”, Nice Observatory, FR
- 03/05/2018 “Globular cluster evolution in the Galaxy: inspirals and mergers”, Padova Uni., IT
- 03/02/2018 “Mergers of globular clusters: the origin of metallicity spreads”, Strasbourg Obs., FR
- 12/01/2017 “A primordial origin for the composition similarity between the Earth and the Moon”, University of Milano-Bicocca, IT
- 12/01/2017 “The mass assembly history of Nuclear Star Clusters”, Uni. of Milano-Bicocca, IT
- 21/10/2016 “The mass assembly history of Nuclear Star Clusters”, GEPI-Obs. de Paris, FR
- 27/04/2016 “Evolution of second population stellar disks in Globular Clusters and Nuclear Star Clusters”, INAF, Osservatorio Astronomico di Roma, IT
- 26/02/2016 “Simulating the mass assembly history of Nuclear star clusters: what we learn from the Milky Way center”, MPIA colloquium, Heidelberg, DE
- 21/01/2016 “Evolution of second-generation stars in stellar disks of globular and nuclear clusters”, Galaxy Coffee, MPIA, Heidelberg, DE
- 11/02/2015 “Dynamical evolution of dense stellar systems”, MPIA Colloquium, Heidelberg, DE
- 11/02/2015 “A primordial origin for the composition similarity between the Earth and the Moon”, Planet and Star Formation weekly seminar, MPIA, Heidelberg, DE
- 16/10/2013 “Dynamical evolution of stellar systems: Globular Clusters and Galactic Nuclei”, Technion-Israel Institute of Technology, IL
- 23/07/2012 “Dynamical evolution of stellar systems: Globular Clusters and their clumpy tidal tails”, Centre for Astronomy & Particle Theory, University of Nottingham, UK
- 22/06/2012 “Dynamical evolution of stellar systems: Globular Clusters and their clumpy tidal tails”, ITC-Harvard, Smithsonian Center for Astrophysics, US
- 21/06/2012 “Globular Clusters and Galactic Nuclei”, ITC-Harvard, CfA US



**CONTRIBUTED CONFERENCE TALKS (28 talks)**

- 2021 Online Workshop on the Galactic Centre and Inner Galaxy, Heidelberg, Germany, “Star formation at the Galactic Centre: coevolution of multiple young stellar discs” (10-12/02)
- 2020 Compact Objects for All, Lund Observatory, Sweden, “Supermassive and intermediate-mass black holes in nuclear star clusters” (9-11/02).
- 2019 EWASS 2019, Lyon, France. Talk: “Unveiling the build-up history of galactic nuclei: models and observations in the era of ELTs” and “The dynamical origin of metallicity spreads in globular clusters” (24-28/06).
- 2019 EWASS 2019, Lyon, France. Talk: “The dynamical origin of metallicity spreads in globular clusters” (24-28/06/2019).
- 2019 “IAU Symposium 351 and MODEST 2019: Star Clusters: from the Milky Way to the Early Universe”, Bologna, Italy. Talk: “The amazing life of a globular cluster: tidal interactions and mergers in the Galactic disc and nuclear star cluster” (27-31/05).
- 2018 “Survival of dense stellar systems in the Milky Way system”, Heidelberg, Germany. Talk: “Surviving till the end: the link between globular and nuclear star clusters” (19-23/11).
- 2018 “SFB star clusters meeting”, Heidelberg, Germany. Talk: “On the origin of multiple populations and metallicity spreads in Galactic globular clusters” (15-17/08).
- 2018 “Marcel Grossmann 14, session GW8”, Rome, Italy. Talk: “The assembly history of nuclear star clusters: black holes and pulsars” (02-07/07).
- 2018 “Marcel Grossmann 14, session BH2”, Rome, Italy. Talk: “The assembly history of nuclear star clusters: supermassive, intermediate mass and stellar black-holes” (02-07/07).
- 2017 “Piercing the Galactic darkness”, Heidelberg, Germany. Talk: “The build-up of the Milky Way's Nuclear Star Cluster” (16-19/10).
- 2017 MODEST17, Prague, Czech. Talk: “The build-up of nuclear star clusters: simulations and observations” (18-22/09).
- 2017 SF2A 2017, “Chemical and dynamical modelling of Milky Way type galaxies”, Paris, France. Talk “The mass assembly history of the Milky Way Nuclear Star Cluster” (04-07/07).
- 2017 SF2A 2017, “Models and interpretation of stellar populations”, Paris, France. Talk “Constraining the origin of multiple stellar populations in globular clusters with *N*-body simulations” (04-07/07).
- 2016 631.Wilhelm und Else Heraeus–Seminar: “Stellar aggregates over mass and spatial scales”. Talk: “Simulating the mass assembly history of Nuclear Star Clusters: the imprints of cluster inspirals” (05-09/12).
- 2016 “Star Clusters: From Infancy to Teenagehood”, Heidelberg, Germany. Talk: “Multiple Stellar Populations in GCs: Constraining their origin using *N*-body simulations” (08-12/08).
- 2016 EWASS 2016, session SS8, Athens, Greece. Talk: “Second-generation stellar disks in globular clusters” (04-08/07).
- 2016 MODEST16, “Star Clusters as Cosmic Laboratories”, Bologna, Italy. Talk: “Simulating the mass assembly history of NSCs through Globular Cluster mergers” (18-22/04).
- 2015 Harvey–prize Workshop, Technion, Israel. Talk: “The formation and evolution of NSCs” (27/04).
- 2014 IAU Symposium #312, “Star Clusters and Black Holes in Galaxies across cosmic time”, Beijing, China. Talk: “The formation and evolution of Nuclear Star Clusters” (19-25/08).
- 2014 Cefalù Meeting 2014, “The Unquiet Universe”, Cefalù, Italy. Talk: “The formation and evolution of Nuclear star clusters: the role of Intermediate Mass Black Holes” (02-07/06).
- 2014 MODEST14, “Dense stellar systems from infant to old”, Bad Honnef, Germany. Talk: “Evolution of second-generation stars in stellar disks of globular and nuclear clusters” (02-06/06).
- 2013 GC2013, “The Galactic Center Black Hole Laboratory”, Granada, Spain. Talk: “The Galactic Center: the nuclear star cluster formation and evolution” (19-21/11).
- 2013 Gravasco Workshop, “Dynamics and kinetic theory of self–gravitating systems”, Paris, France. Talk: “Evolution of second-generation stars in stellar disks of globular and nuclear clusters:  $\omega$ Centauri as a test case” (04-08/11).
- 2013 Italian–Israeli Conference on High Energy Astrophysics, Akko, Israel. Talk: “Dynamics in NSCs

- and their relevance to tidal disruption and gravitational wave events” (13-14/10).
- 2012 Israel Physics Society Conference, Jerusalem, Israel. Talk: “Clumpy streams in a smooth dark matter halo: the case of Palomar 5” (09/12).
- 2011 Cefalù meeting 2011, Italy. Talk: “The formation of the Milky Way's NSC” (13-17/06).
- 2010 NVIDIA GPU Technology Conference, San Jose (CA), US. Talk: “Gravitational  $N$ -body Simulations: How Massive Black Holes Interact with Stellar Systems” (20-23/09).
- 2009 E4 Computing Workshop 2010, Bologna (Italy). Talk: “A high precision code to simulate  $N$ -body systems on hybrid machines: quality and performance benchmarking” (17-19/09).

### SELECTED PRESS COVERAGE (among more than 50 press articles, TV and radio interviews)

This is a partial list of the press releases concerning my work. They include interviews with journal, radio and television.

1. **List of citing articles (Nature):**  
<https://www.nature.com/articles/nature14333/metrics>
2. **National Geographic:** <https://news.nationalgeographic.com/2015/04/150408-moon-form-giant-impact-earth/>
3. **Discovery Channel (Seeker):** <http://www.seeker.com/collision-with-earths-little-sister-created-the-moon-1769710041.html>
4. **Science:** <http://www.sciencemag.org/news/2015/04/how-did-moon-really-form>
5. Ranked **#47 among the top 100 science stories of 2015** on Discovery magazine: <http://discovermagazine.com/2016/janfeb/47-the-moons-violent-birth>
6. **BBC:** <http://www.bbc.com/news/science-environment-32219494>
7. **NBC:** <http://www.nbcnews.com/science/space/how-did-moon-form-violent-cosmic-crash-theory-gets-boost-n338026>
8. **Los Angeles Times:** <http://www.latimes.com/science/sciencenow/la-sci-sn-moon-earth-similarity-explained-20150408-story.html>
9. **Le Huffington Post:** [http://www.huffingtonpost.fr/2015/04/11/naissance-lune-collision-terresoeurjumelle\\_n\\_7045672.html](http://www.huffingtonpost.fr/2015/04/11/naissance-lune-collision-terresoeurjumelle_n_7045672.html)
10. **Der Spiegel:** <http://www.tagesspiegel.de/wissen/entstehung-des-erdrabanten-der-mond-gingaus-einem-crash-hervor/11609460.html>
11. **El Pais:** [http://elpais.com/elpais/2015/04/08/ciencia/1428495111\\_666688.html](http://elpais.com/elpais/2015/04/08/ciencia/1428495111_666688.html)
12. **Le Scienze (Italian version of Scientific American):**  
[http://www.lescienze.it/news/2015/04/09/news/impatto\\_terra\\_formazione\\_luna\\_composizione-2559065/](http://www.lescienze.it/news/2015/04/09/news/impatto_terra_formazione_luna_composizione-2559065/)
13. **Il Corriere della Sera:**  
[http://www.corriere.it/scienze/15\\_aprile\\_13/astrofisica-italiana-che-svela-nascita-luna-bb5f89d4-e1aa-11e4-b4cd-295084952869.shtml](http://www.corriere.it/scienze/15_aprile_13/astrofisica-italiana-che-svela-nascita-luna-bb5f89d4-e1aa-11e4-b4cd-295084952869.shtml)
14. **Technion press release:** <http://www.technion.ac.il/en/2015/04/the-origins-of-the-moon/>
15. **Swiss Television interview:** <https://www.tvsvizzera.it/tvs/-in-italia-avrei-dovuto-lavorare-gratis-/42676374>
16. **Radio24, Giovani Talenti interview:**  
<http://www.radio24.ilsole24ore.com/programma/giovani-talenti/trasmissione-novembre-2015-140433-gSLAeZBoRB>  
<https://sergionava.blogradio24.ilsole24ore.com/2015/11/28/una-astrofisica-in-germania/>
17. **GEPI press release on Palomar 5 tidal tails:** <http://gepi.obspm.fr/actualites/article/courants-stellaires-dans-le-halo?lang=en>
18. **Contribution to book chapters on outstanding women in science and technology:**
  - <https://store.corriere.it/Il-senso-delle-donne-per-la-scienza/PwOsEWcWj5wAAAFOfcg29Ngg/pc?CatalogCategoryID=80OsEWcW3TUAAGGGghgVTcr>
  - <https://www.libreriauniversitaria.it/chiedimi-luna-savaglio-sandra-mondadori/libro/9788804668947>
  - <https://www.donnamoderna.com/news/speciali/donne-come-noi/donne-come-noi-il-libro>

### COMPUTER SKILLS

Linux, Mac OS X, Windows

C, C++, CUDA C, OpenMP, awk, Bash scripting, Fortran, Python, LaTeX, Gnuplot, Office Package, Matlab, Mathematica, Topcat

## LANGUAGES

**Italian** Native Speaker

**English** Fluent reading, writing and speaking

**German** Basic knowledge

**French** Basic knowled

## REFERENCES

### **Dr. Paola Di Matteo**

Associate astronomer

GEPI - Batiment 11, Hipparque

Observatoire de Paris - Section de Meudon

5, Place Jules Janssen 92195 Meudon (FR)

**Tel:** +33-(0)1-4507-7867

**E-mail:** [paola.dimatteo@obspm.fr](mailto:paola.dimatteo@obspm.fr)

### **Prof. Hagai Perets**

Deloro Fellow, Associate Professor

Physics Department

Technion - Israel Institute of Technology

Haifa, Israel 32000

**Personal homepage:** <http://physics.technion.ac.il/~hperets/index.html>

**Tel:** +972-(0)77-8871954

**E-mail:** [hperets@ph.technion.ac.il](mailto:hperets@ph.technion.ac.il)

### **Dr. Ross P. Church**

Senior Lecturer

Department of Astronomy and Theoretical Physics

Lund Observatory, Box 43

22100, Lund, Sweden

**Personal homepage:** <https://www.astro.lu.se/~ross>

**Tel:** +46-(0)46-222-16-09

**E-mail:** [ross@astro.lu.se](mailto:ross@astro.lu.se)

### **Dr. Nadine Neumayer**

Faculty member - Galactic Nuclei Group Leader

Max Planck Institute for Astronomy

Königstuhl 17, D-69117 Heidelberg (DE)

**Personal homepage:** <http://www.mpia.de/homes/neumayer/>

**Tel:** +49-(0)6221-528-446

**E-mail:** [neumayer@mpia.de](mailto:neumayer@mpia.de)