



**MW-Gaia WG1-WG2 Workshop**  
**Star Clusters: The Gaia Revolution**  
**Online, Barcelona (Spain), 5th-7th October 2021**

The workshop [Star Clusters: The Gaia Revolution](#) took place online organised by the Institute of Cosmos Sciences of the Universitat de Barcelona (ICCUB) and the Institut d'Estudis Espacials de Catalunya (IEEC), from 5<sup>th</sup> to 7<sup>th</sup> October 2021.

This was the third workshop of Working Group 1 and the second workshop of the Working Groups 2 of the MW-Gaia COST Action. The format of the workshop was based on invited key presentation, contribution talks and short pitch poster talks.

**Star Clusters: the Gaia Revolution**  
MW-Gaia WG1/2 online workshop  
5-6-7 October 2021

**Invited Speakers:**  
Angela Bragaglia  
Laia Casamiquela  
Phillip Galli  
Marina Kounkel  
Andrea Miglio  
Eugene Vasiliev

**Scientific Organising Committee**  
Tristan Cantat-Gaudin  
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Institut de Ciències del Cosmos  
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EXCELENCIA  
MARIA  
DE MAEZTU  
2020-2023  
Institut d'Estudis  
Espacials de Catalunya

## Scientific motivation of the workshop

The ESA *Gaia* mission is having a tremendous impact on our knowledge and understanding of small-scale structures in the Milky Way. Stellar clusters are at the crossroads of multiple topics in astronomy and astrophysics, from the formation of stars to their dispersal throughout the Galaxy.

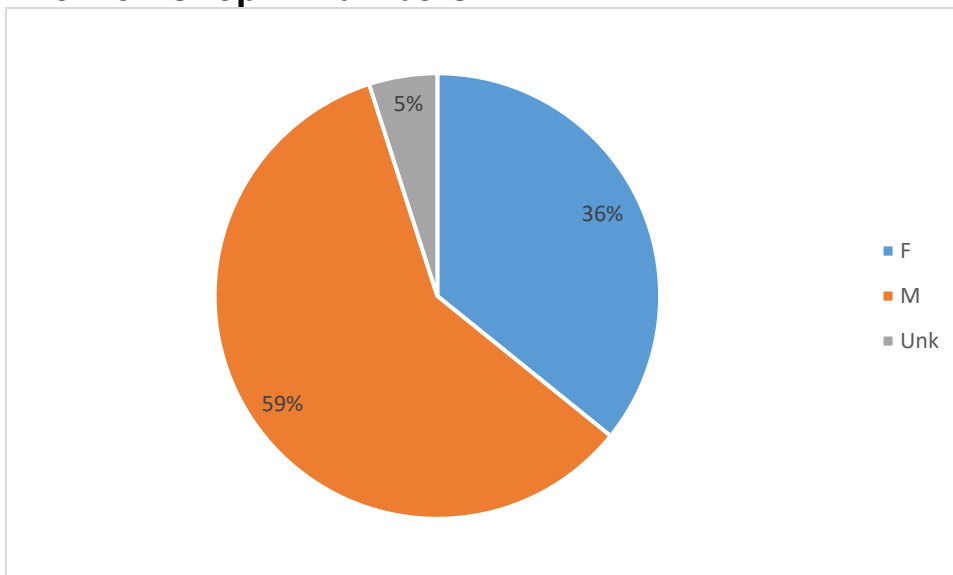
This joint WG1/2 workshop of the [EU COST action MW-Gaia](#) covered various topics such as stellar associations, open clusters in the Milky Way disc, globular clusters and streams in the halo, as well as synergies between *Gaia* and other missions and observational campaigns.

The sessions were distributed over three half days, and were entirely online.

Main topics and invited speakers were:

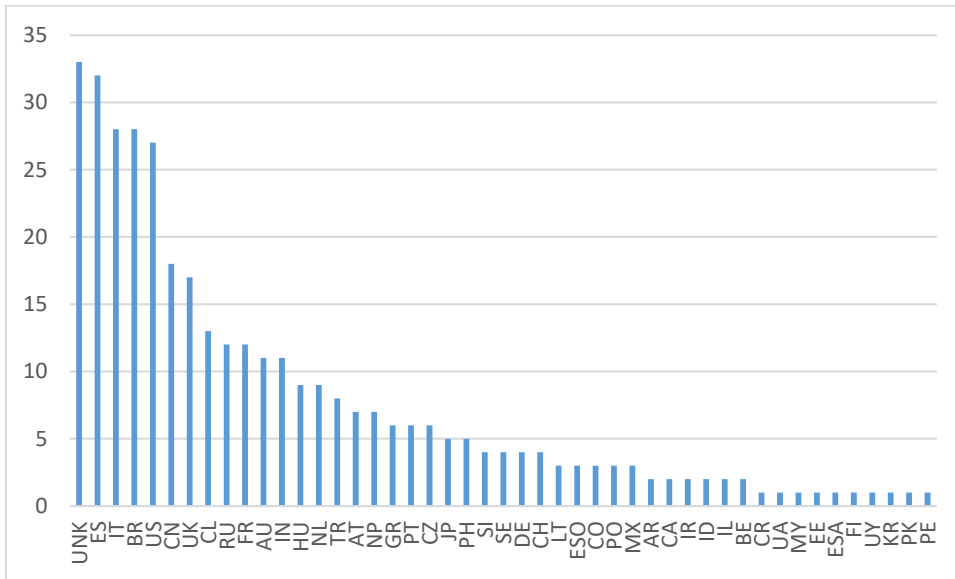
- ✓ Young stars and star forming regions (Phillip Galli)
- ✓ Stellar evolution and asteroseismology (Andrea Miglio)
- ✓ Data mining in the Gaia catalogue (Marina Kounkel)
- ✓ Cluster dynamics (Eugene Vasiliev)
- ✓ Chemistry and synergies with ground-based surveys (Laia Casamiquela)
- ✓ Clusters as tracers of the Galactic structure and history (Angela Bragaglia)

## The workshop in numbers



The workshop was attended by 363 researchers, 36% of them female, and 5% unknown.

The SOC and LOC had a 38% (3 out of 8) and 75% of female researchers (3 out of 4).



There were researchers from 46 different countries: Europe (mostly ES and IT), the Americas (United States, Chile, Brazil, Mexico, Uruguay, Colombia, Peru, Canada, Argentina), Middle East (Iran, Israel) Asia (China, Bangladesh, Pakistan, Japan, India, Indonesia, Malaysia, Philippines, Nepal, Korea) and Australia.

There were 26 presentations. 44% of the female participants presented something while 35% of male participants did. There were 7 Invited talks (29% female) and 19 Contributed talks (11% female).

Report prepared by Lola Balaguer-Núñez.