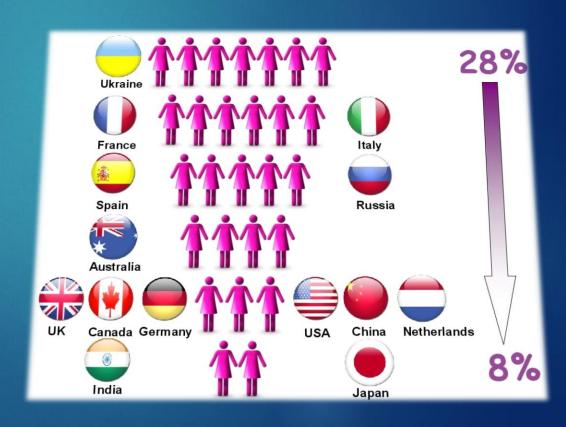
WOMEN ASTRONOMERS IN SPAIN

Isabel Márquez (IAA-CSIC, Granada)

- When we started, almost 10 years from now
- What we did
 - ► For the IYA 2009
 - "Women and astronomy", SEA
 - ▶ Up to now
 - For the next
- Statistics andSociological study





Montse Villar IAA-CSIC



Adriana Kiczkowski (consulting)



Eulalia Pérez-Sedeño **CCHS-CSIC**



Isabel Márquez IAA-CSIC



Josefa Cesca **Figueras** Masegosa Universitatd IAA-CSIC Barcelona



Josefina Ling Compostela



Belén López-Universidad Martí Santiago de LAEX



Blanca **Thoughton** IES - Málaga







Promoting gender equality and empowering women is one of the **United Nations Millennium Development Goals**

Approximately one quarter of all professional astronomers are women (wide geographical diversity)

Drop in numbers towards more senior levels Visibility (resources on historical and living female astronomers) Forum to discuss issues, lessons-learned and challenges

IAU 2009 RESOLUTION B4: On Supporting Women in Astronomy

The International Astronomical Union XXVII General Assembly, recalling

- 1. the UN Millennium Development Goal 3: promote gender equality and empower women,
- 2. the IAU/UNESCO International Year of Astronomy 2009 goal 7: improve the gender-balanced representation of scientists at all levels and promote greater involvement by underrepresented minorities in scientific and engineering careers, recognizing
- 1.that individual excellence in science and astronomy is <u>independent of gender</u>, 2.that gender equality is <u>a fundamental principle of human rights</u>.

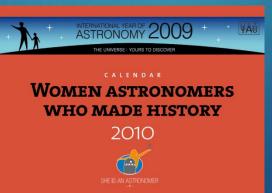
 considering
- 1.the role of the IAU Working Group for Women in Astronomy, 2.the role of the IYA2009 Cornerstone Project She is an Astronomer, resolves
- 1.that IAU members should encourage and support the female astronomers in their communities,
- 2.that IAU members and National Representatives should encourage national organisations to break down barriers and ensure that men and women are given equal opportunities to pursue a successful career in astronomy at all levels and career steps.

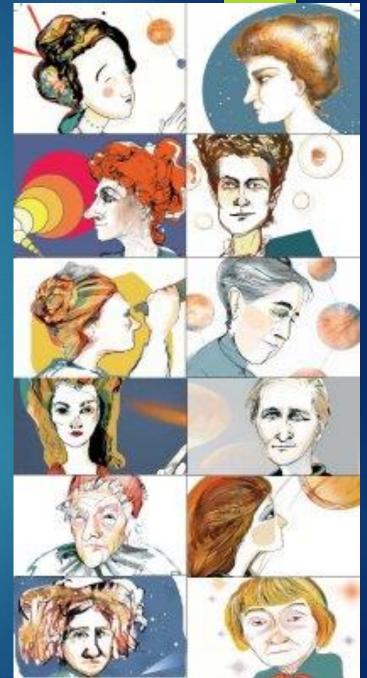
Female astronomers: present along the history of Astronomy

They significantly contributed to our present-day concept of the universe

CALENDAR









Sociological study 2009

1st research done on the situation of women in A&A in Spain, 2009

Both quantitative and qualitative (both women & men)



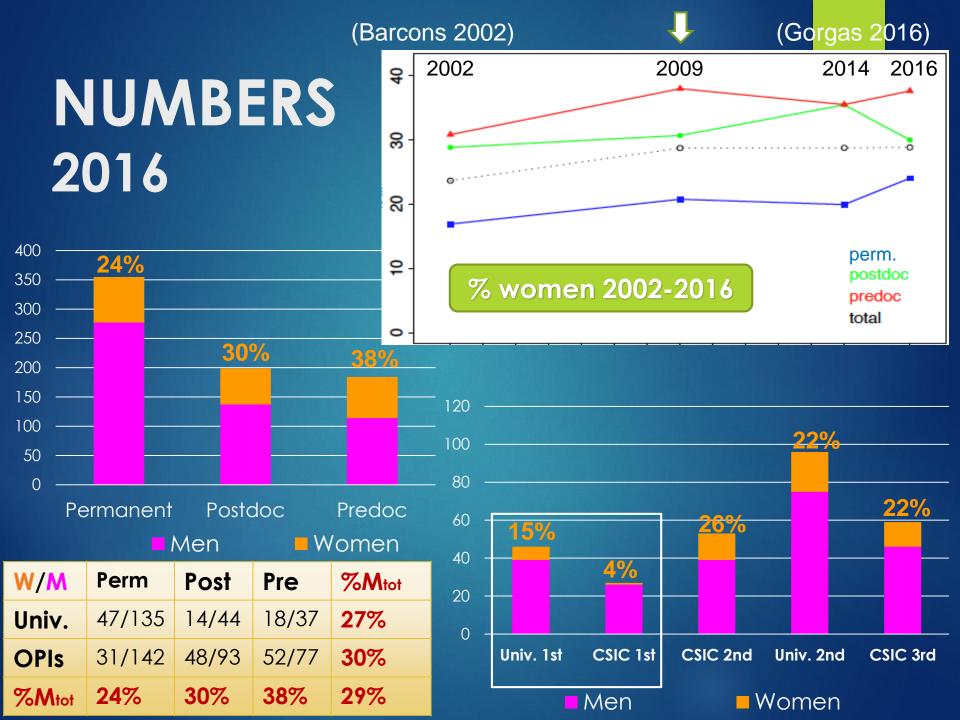
Map of the situation of Women astronomers
In Spain



In-depth interviews to teaching and research staff

Focus groups for PhD candidates and postdocs

29% of staff 20% of project leaders



Resuls of the qualitative study 2009

- At first glance, no discrimination in their research area
- Women face many more difficulties
- External origin, no special responsibility
- "It is just a matter of time"

Past work conditions have improved but still a good distance to go (glass ceiling) Awareness of inequalities in the National System of Science and Technology (less relevant for younger)

Discriminative situations not a direct consequence of close environment Young:

Inequality or discrimination makes part of the past, irrelevant from now on Family/children care will eventually turn into a problem they will have to face Family responsabilities are not a hindrace, difficulty or issue for deeper reflection

Affirmative actions:

Indirect criticism Huge work load

SEA Committee "Women and astronomy" 2017



- Miguel Cerviño (IAC)
- Marisa García Vargas (FRACTAL, S.L.)
- Vicent J. Martínez (Univ. Valencia)
- Silvia Martínez (Univ. Cantabria)
- Mercedes Mollá (CIEMAT)
- Mayra Osorio (IAA)
- Ana Ulla Miguel (Univ. Vigo)
- Eva Villaver Sobrino (Univ. Autónoma de Madrid)

Next future

Upgrade of sociological study in 2019

Impact of the Equality Plan of the Spanish Astronomical Society (2016)

- Provide statistics of women in <u>SEA meetings</u>, panels, nominations, leading positions