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Observatório Nacional & IAU

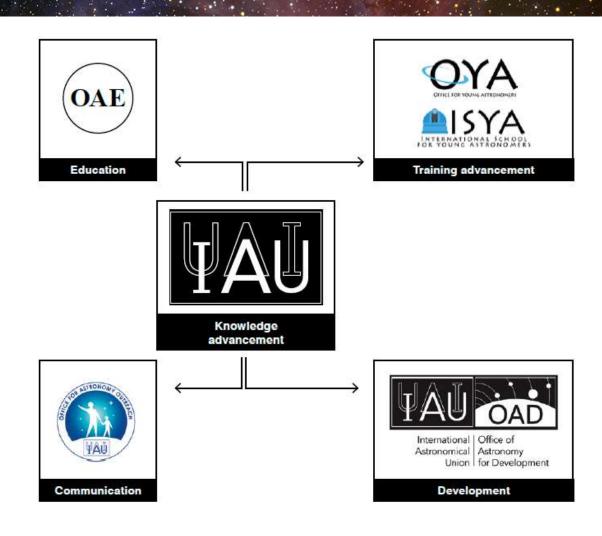


#### IAU – International Astronomical Union

- Founded: 1919 → 100 years this year!
- <u>Mission</u>: promote and safeguard the science of astronomy in all aspects through international collaboration
- Members: 82 national members with 13,682 individual members from 107 countries (interim or observer) with PhD level, active in professional research and education in astronomy
- Scientific bodies: 9 Divisions, 35 Commissions & 54 Working Groups
- <u>Executive bodies</u>: EC, 4 Committees (Special Nominating, Membership, Finance, Resolution) & 4 Offices

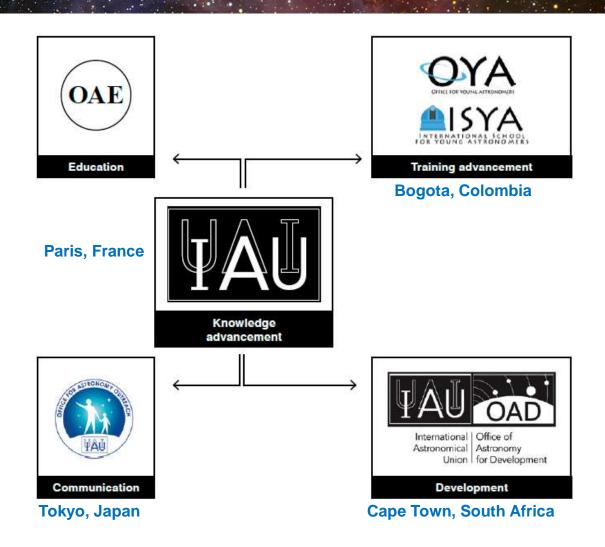


IAU Strategic plane 2020-2030





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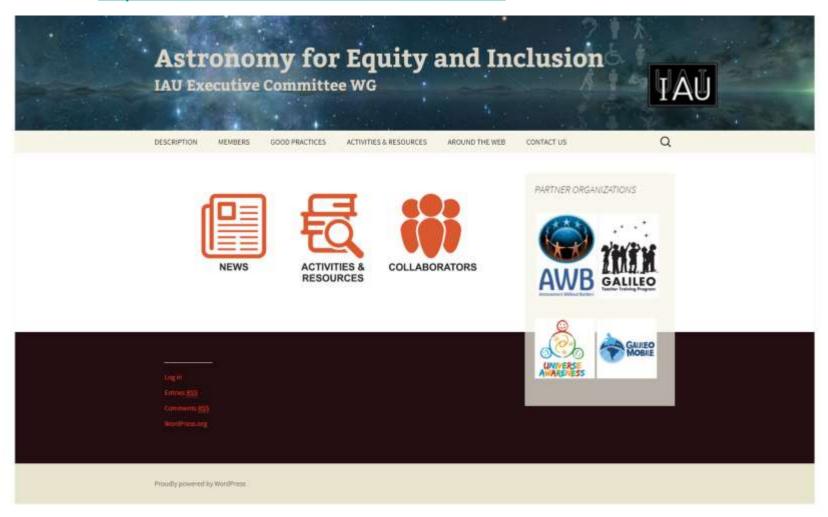
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EC Working Groups:
Women in Astronomy (2003)
Astronomy for Equity and Inclusion (2015)



http://sion.frm.utn.edu.ar/iau-inclusion/









Astronomy for Blind or Visually Impaired

1. A Touch of the Universe



2. The Sky at your Fingertips



3. From Earth to the Universe



4. Meet our Neighbours!



Astronomy for Deaf and Hard-of-Hearing

1. Vodcasts: The Incredible Two-Inch Universe



2. Dictionary of Astronomy Sign Language



Astronomy for People with Motor Impairments

1. Your weight in other worlds



2. Surface of Mars



3. Astroadapt

Astroadapt is a free open source software for people with motor impairments.

4. HATTS Program

Handicapped Access To The Sky – is a program that gives Free Mounting systems to organizations that support public Star parties which include handicapped access.

[back to Activities & Resources Page]



#### https://www.iau-100.org/inspiring-stars



INTERNATIONAL ASTRONOMICAL UNION 1919 - 2019









NEWS

PROJECTS.

EVENTS

IN YOUR COUNTRY.

RESOURCES

CONTACT



#### **Inspiring Stars**

Einstein Schools

Above and Beyond

Dark Skies for All

Inspiring Stars is an itinerant international exhibition promoted by the International Astronomical Union (AU) to highlight world initiatives that address the concept of inclusion at (but not limited) outreach, didactic, and professional aspect, using astronomy

Inspiring Stars is a collaborative initiative in which resources related to astronomy research, communication and development are collected via an open call around the world and combined in a unique interactive exhibition, inspiring Stars intends to broaden the horizons of children, parents, teachers and astronomers by showcasing assistive research tools and inclusive practices inspiring the love for science and the possibility





#### **INSPIRING STARS**

the IAU inclusive world exhibition

#### ABOUT INSPIRING STARS

"Inspiring Stars" is an itinerant international exhibition promoted by the International Astronomical Union (IAU) to highlight world initiatives that address the concept of "inclusion" at (but not limited) outreach, didactic, and professional aspect, using astronomy.



08/2018: Austria (IAU-GA)

01/2019: Ethiopia

02/2019: Italy

07/2019: Argentina

07/2019: Thailand

11/2019: Japan

10/2018: Chile

02/2019: Belgium

05/2019: UK

07/2019: France

08/2019: Colombia













#### **WiA: Women in Astronomy**

- Founded: 2003 IAU-GA, Sidney (Australia)
- <u>Mandate</u>: collect information, propose measures, and initiate actions in support of, or to advance equality of opportunity for achievement between women and men in astronomy, in the IAU and in the world at large.
- Structure:
  - Organizing Committee: chair Dara Norman (NOAO, US), co-chair Lydia Sonia Cidale (Argentina) + 12 members from 11 countries (14% male)
  - Members (since 2018): 162 (10% male)

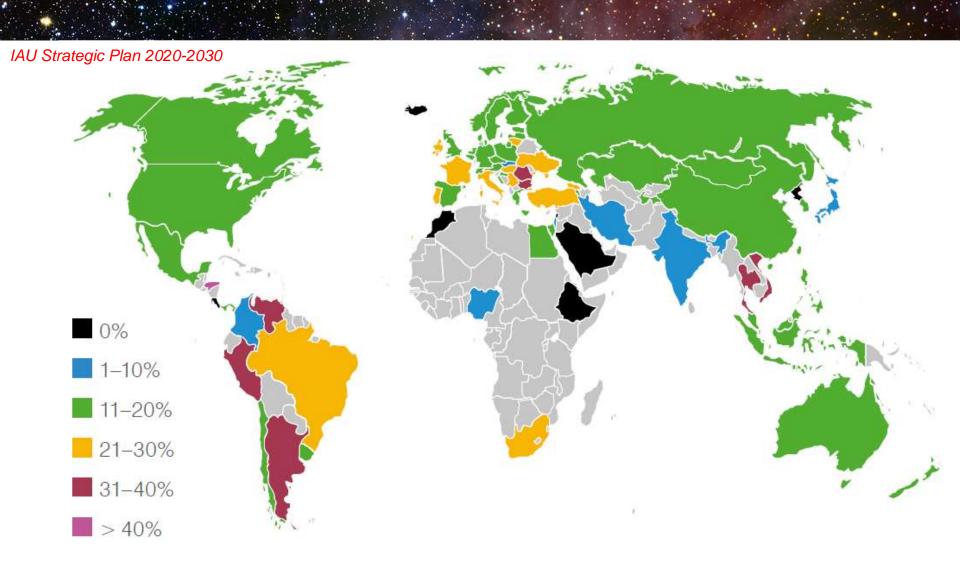


www.iau.org

Last update: 01/09/2019

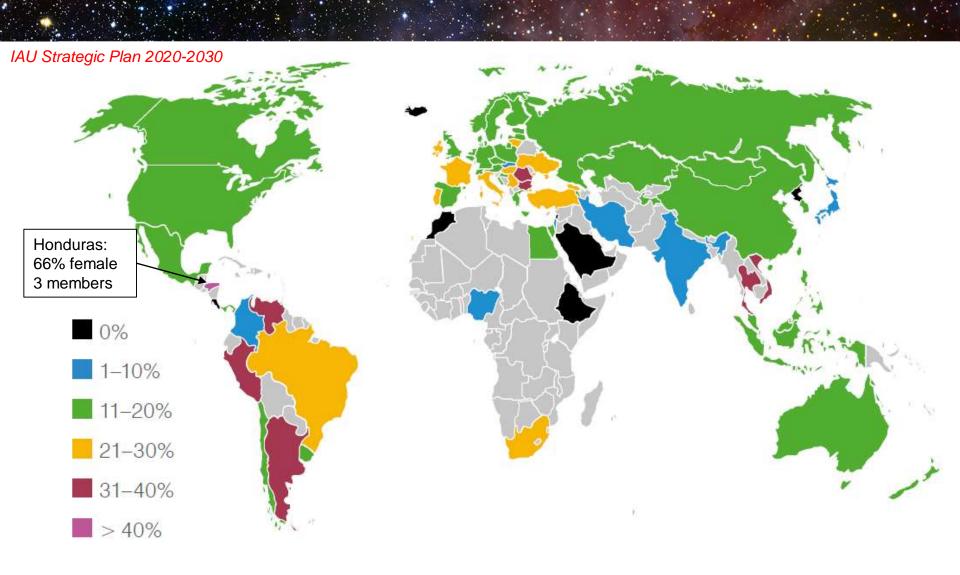
INDIVIDUAL MEMBERS	NUMBE	NUMBER OF MEMBERS			% OF MEMBERS	
	Male	Female	Total	Male	Female	
Total	11177	2507	13684	81.68	18.32	



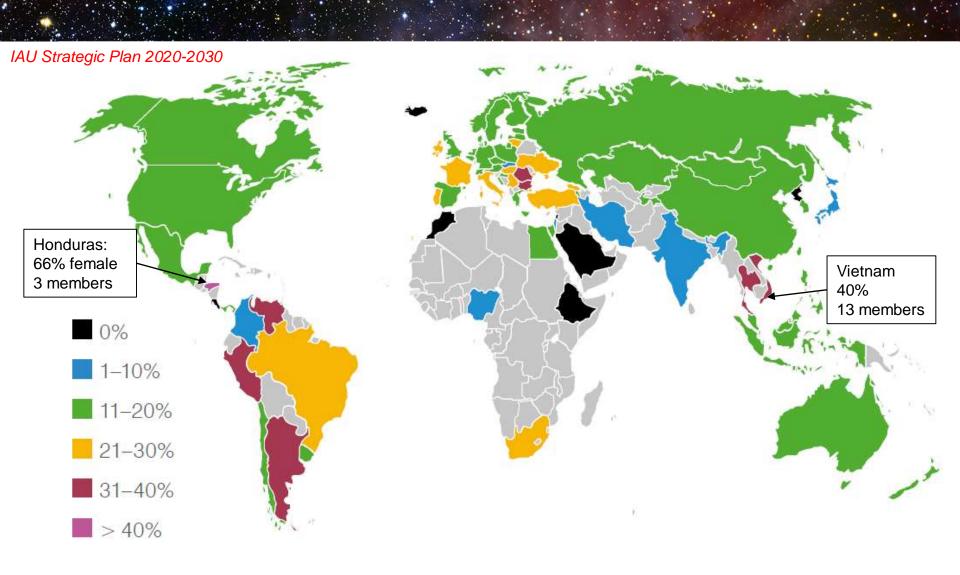


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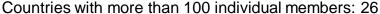


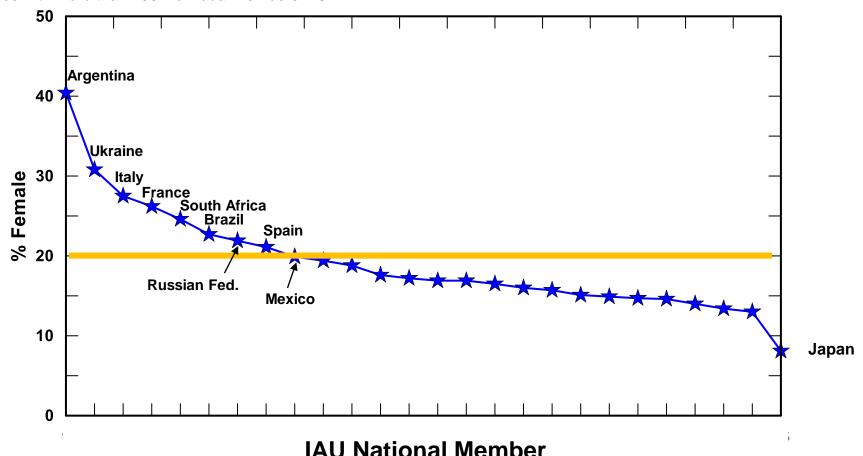




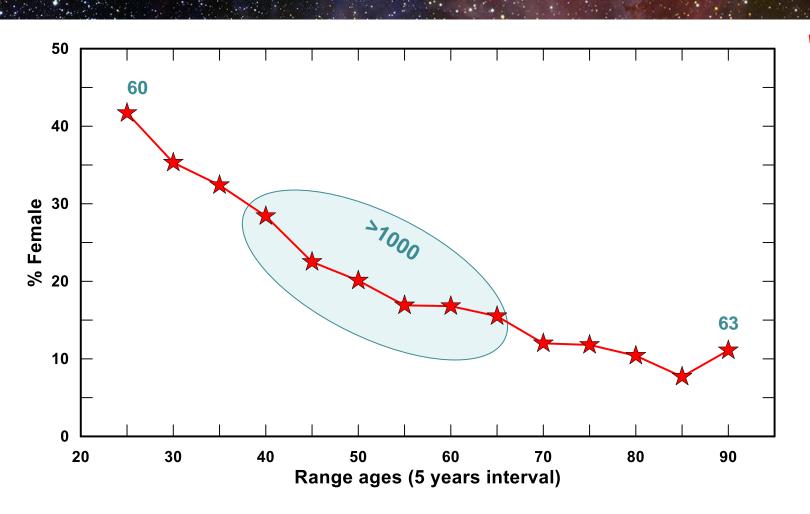






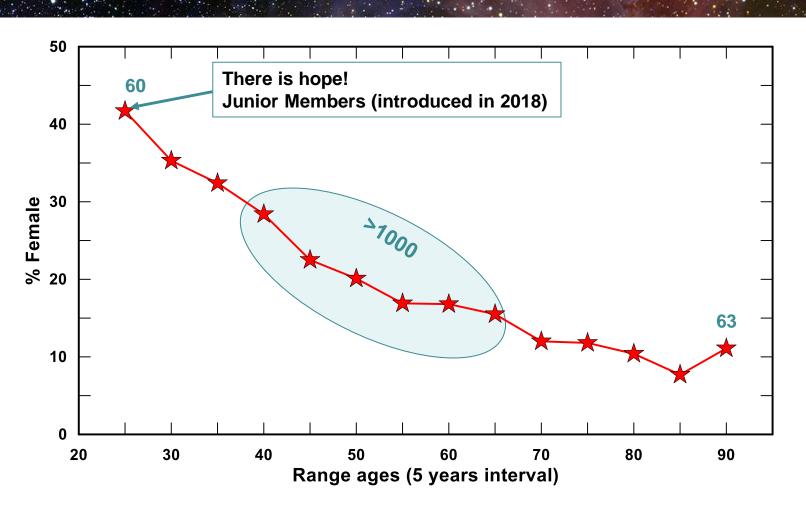






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#### **Latin- and Central-America Astronomical community**

Large or traditional:

Argentina - 156

Brazil - 216

**Chile - 129** 

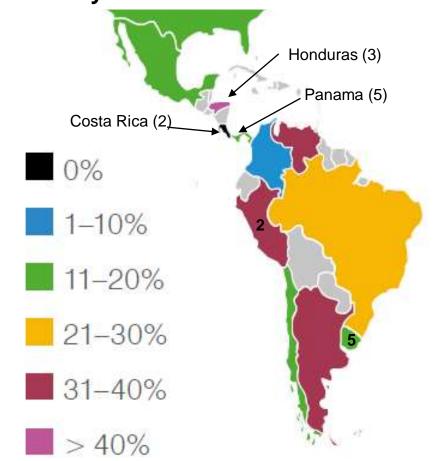
Mexico - 171

**Uruguay - 5** 

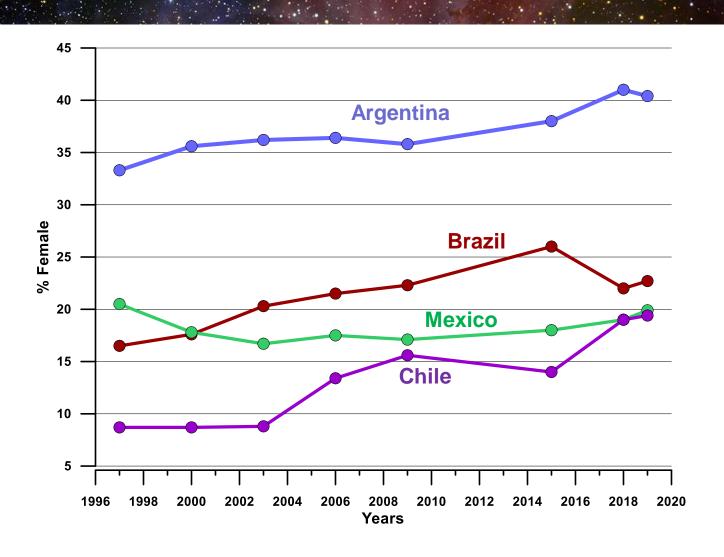
Venezuela - 21

Young: Colombia - 30

Very small in other countries







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Institutes involved:	Argentina 8		Brazil 16+38
Astronomy research staff:	T	163	281
	F	39%	24%
Permanent position:	T	196	368
	F	40%	23%
Tenure-track :	T	116	18
	F	37%	33%
Short-term contract:	T	60	67
(pos-doc / visitor)	F	60%	30%
Graduate students: (Master + PhD) * Physic + Astronomy	T F	894* 50%	239 42%

Percentage of female decreases at higher levels



In Brazil

Source: CNPq

	Т	F	% <b>F</b>	
CNPq Fellowships in Astronomy	276	84	30	
ICJ (high-school):	29	15	<b>52</b>	١
IC (undergraduate):	<b>72</b>	22	<b>30</b>	Ш
M + PhD:	18	5	28	Ш
Research:	114	29	25	K

25% 21% 27% 28% 33% PQ2 → 1D → 1C → 1B → 1A

small numbers!

beginning carrier

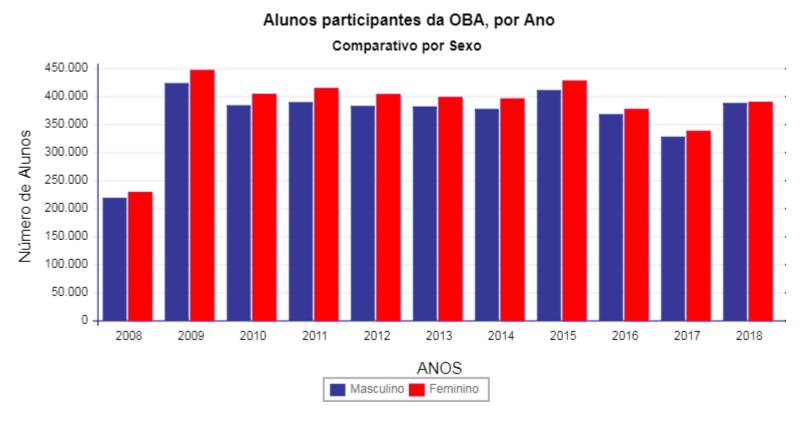


#### Brazilian Astronomy Olympics, organized by the Brazilian Astronomical Society

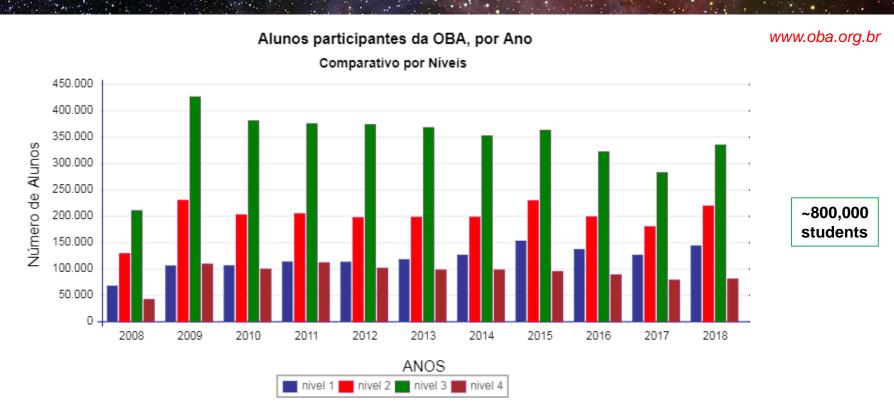
www.oba.org.br

~800,000

students

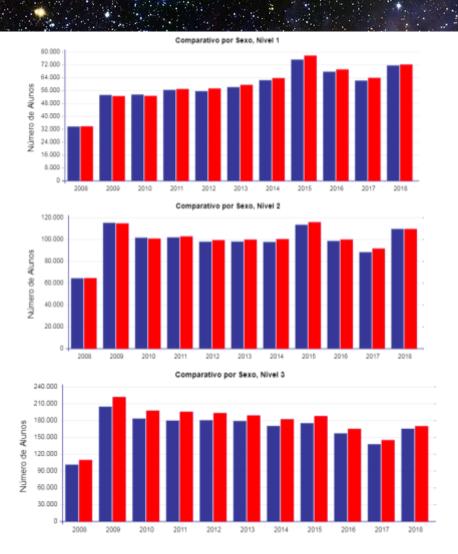






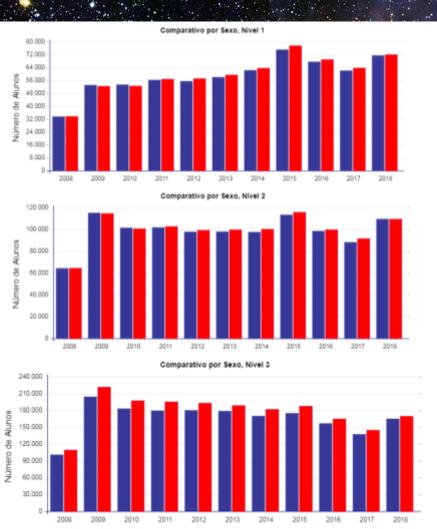
Fundamental (6 to 17 years old): level 1 to 3 High-school: level 4

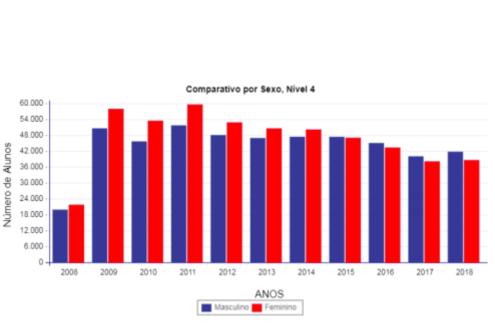




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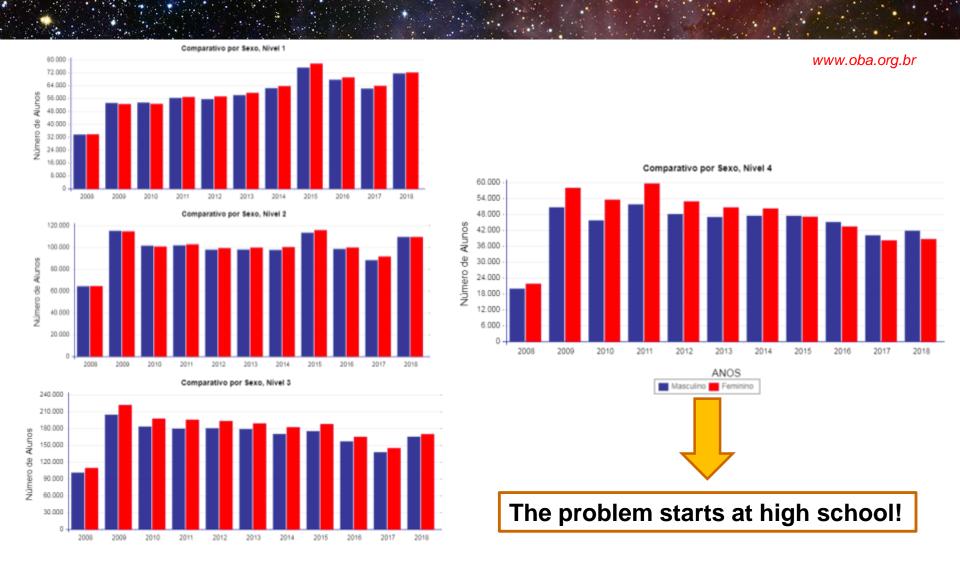




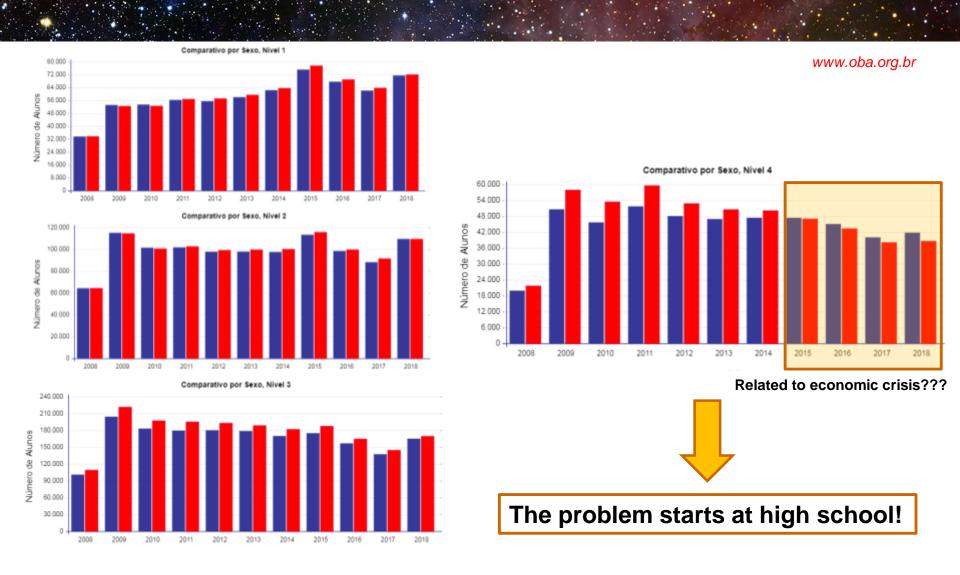


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#### Initiatives

monitoring status of WiA via collection of gender statistics

organizing meetings and events to raise awareness and define actions

Women in Astronomy Lunch at the GAs: keynote speakers + discussions in groups She is an Astronomer project during IYA2009

AstroFaces – Portrays of women astronomer – Senior & Junior - in progress

AstroVoices – "I am an astronomer" videos from around the world

IAU Symposium 358 – Astronomy for Equity, Diversity and Inclusion – a roadmap to action within the framework of the IAU 100<sup>th</sup> Anniversary. → "Mitaka resolutions"





# 11 of February and all around the year!

#### **Projects**

#### IAU Women and Girls in Astronomy Project



Image description: Itiustration of pioneering astronomer Wang Zhenyi (1768 –1797) of China's Qing dynasty. Image credit: Aneto Margraf-Druc

The IAU will celebrate Women and Girls in Astronomy throughout the year, in addition to commemorating Women and Girls in Astronomy Day on February 11th, 2019 in tandem with the United Nations' International Day of Women and Girls in Science, Beyond 11 February, we encourage events throughout the year to celebrate women and girls.

#### Visit the Events page to find an event near you!

We invite everyone to get involved by running events in your local community. Some ideas for events include:

- Holding public talks and outreach events featuring women astronomers
- · Bringing women astronomers into classrooms
- Activities and workshops with students' and children's' clubs, such as after school science clubs, scouting clubs
- · Field trips for girls to science centers and planetariums
- "Astronomy on Tap" public events in pubs and bars featuring women astronomers
- Online or in-person Question and Answer sessions between women astronomers and students
- Networking and mentoring events for undergraduate and graduate women astronomers
- · Public stargazing with women astronomers

In addition to the worldwide events on February 11th, we encourage events and activities throughout the month of February and the whole year to celebrate women in astronomy.

If you would like to put on an event and need support or guidance, don't hesitate to reach out via the <u>Contact</u> page!







# THANK YOU!!!

(sorry not to be there with you...)