

A photograph of two young girls engaged in a science activity. One girl, wearing a dark floral dress, is looking through the eyepiece of a black microscope. Another girl, wearing a pink shirt and denim overalls, is standing next to her, also looking at the microscope. They are outdoors, with a blurred background of greenery. The image is dimmed to allow text to be overlaid.

INSPIRING AND EMPOWERING GIRLS TO ENGAGE AND STAY IN PHYSICS

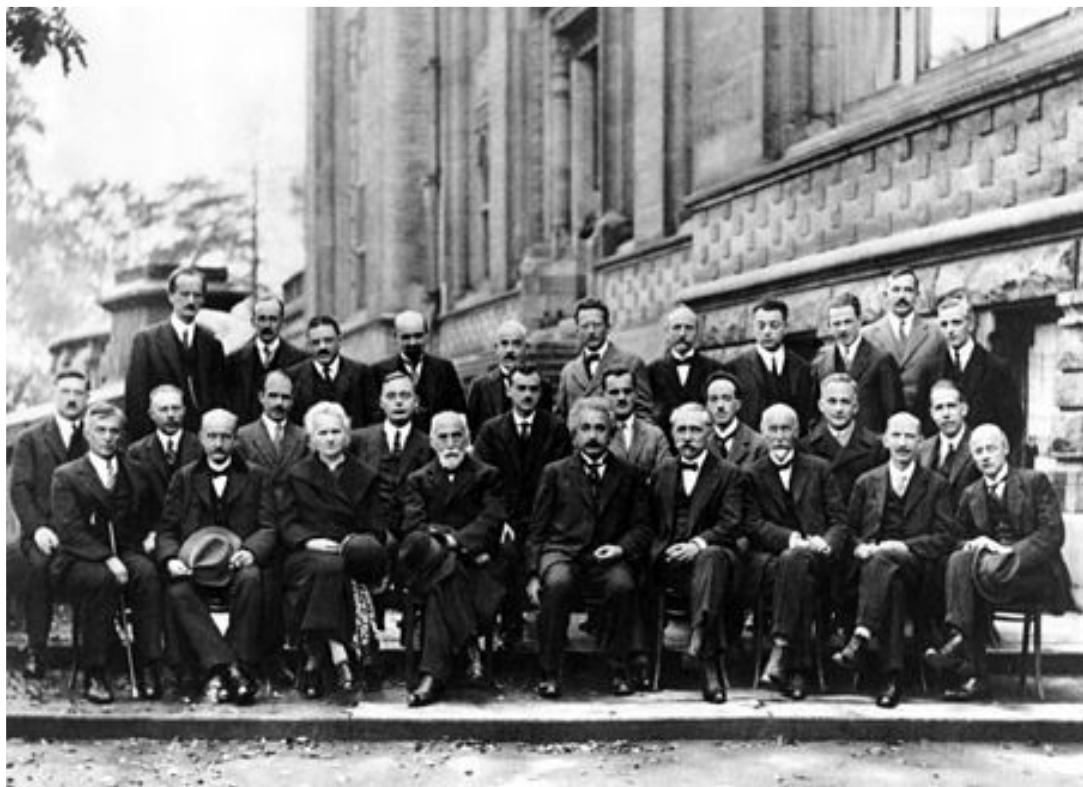
Zélia Ludwig – UFJF
zamadaludwig@gmail.com



Understanding the problem



Foto: Acervo IFUSP

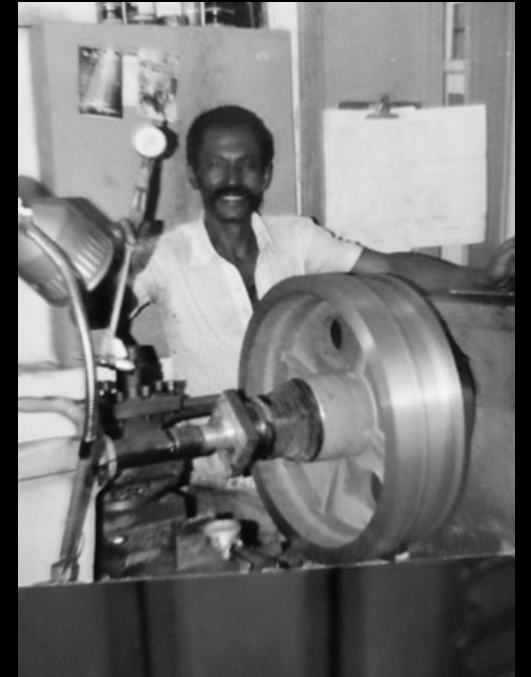


Since I was a kid, I was very interested in how the things around me can work.

My dad help me to do my own experiments, he used to explain to me how the machines worked



**“Education can empower
your life for the better”**





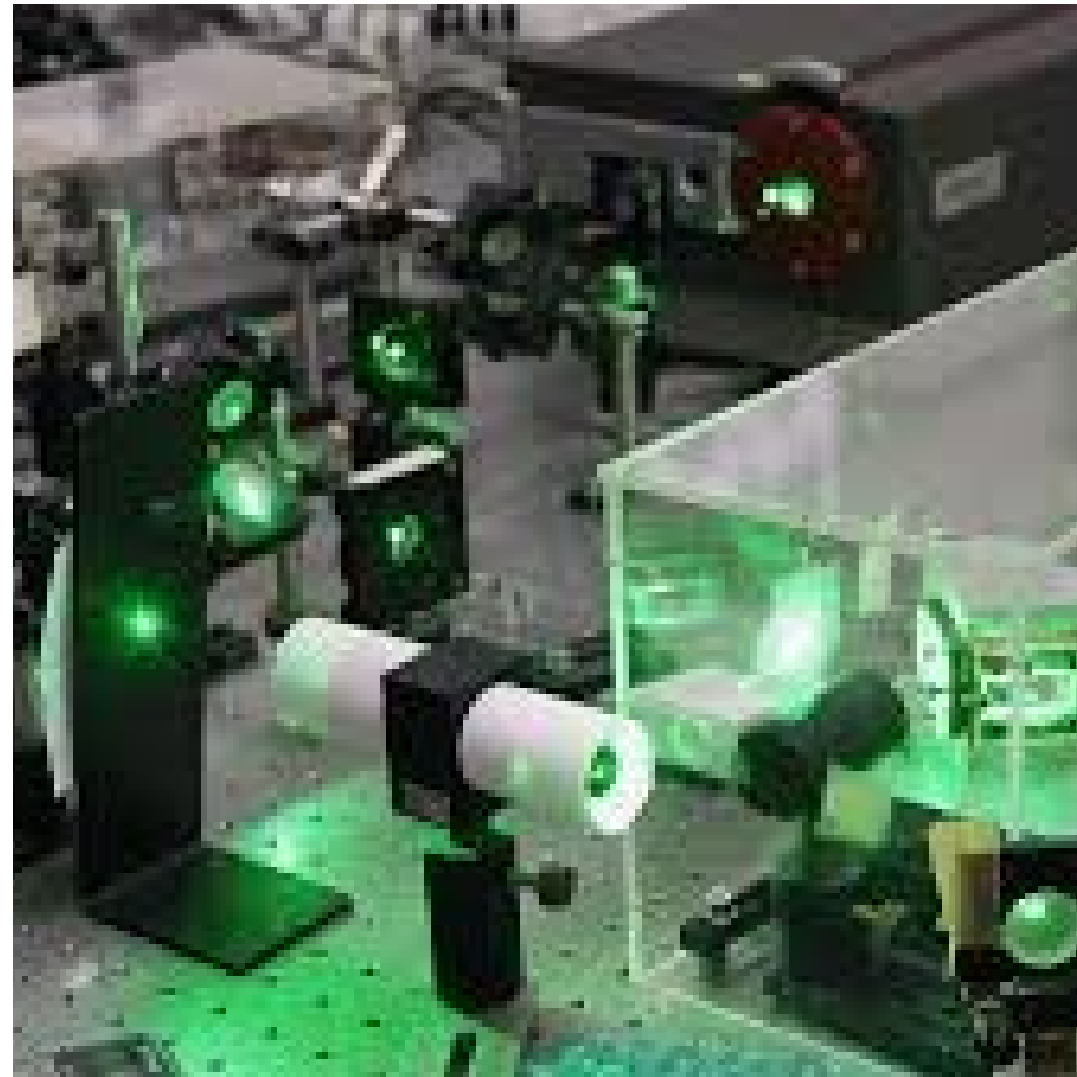


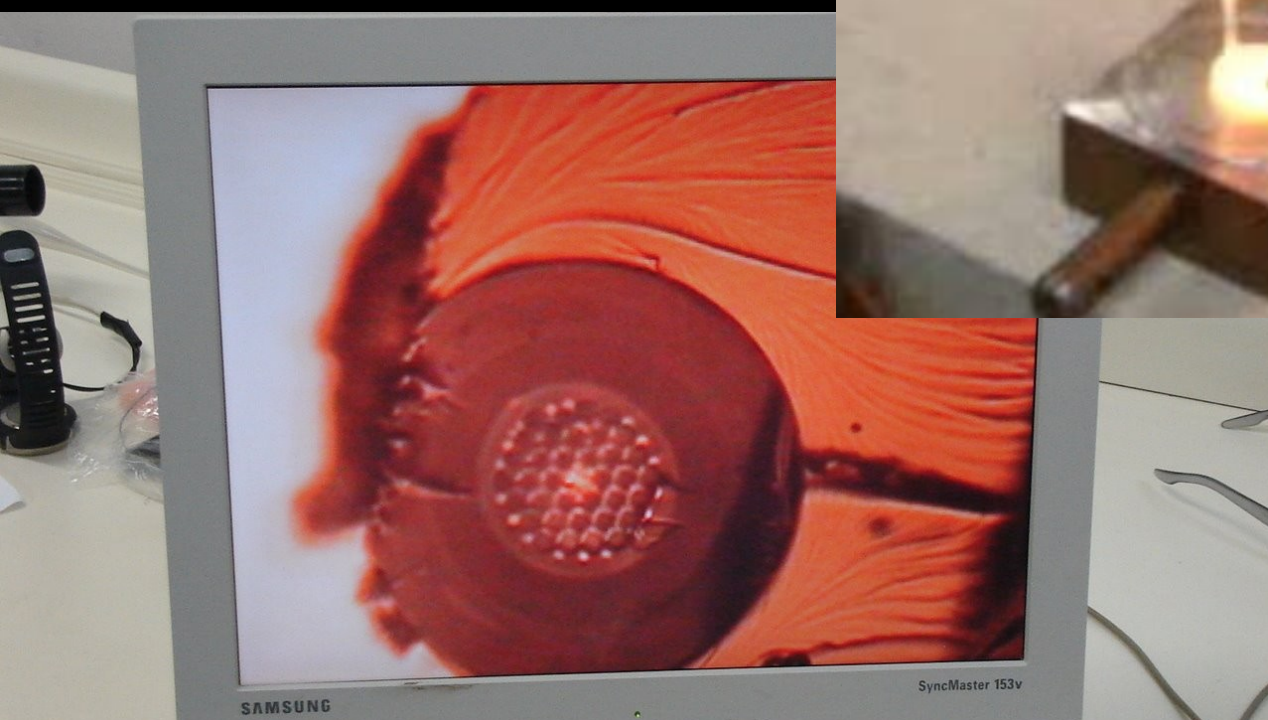
FROM USP TO
THE WORD

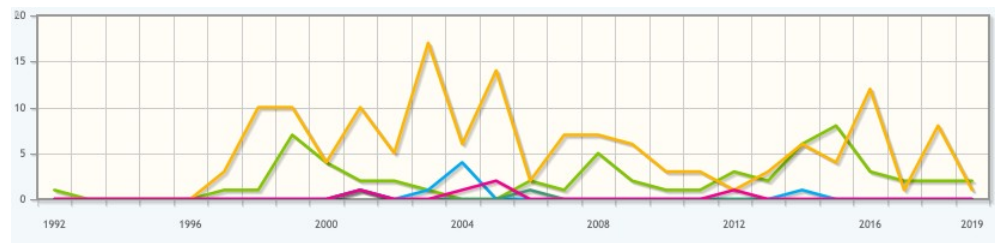
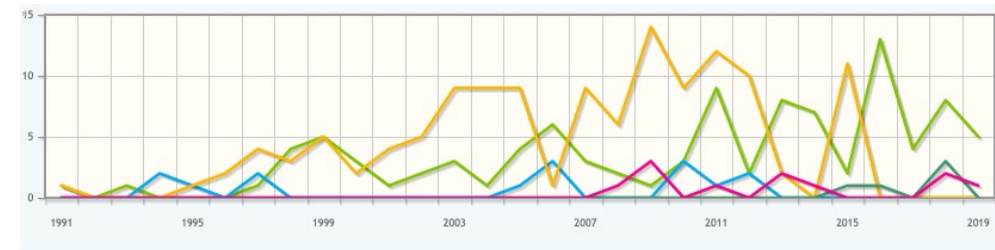
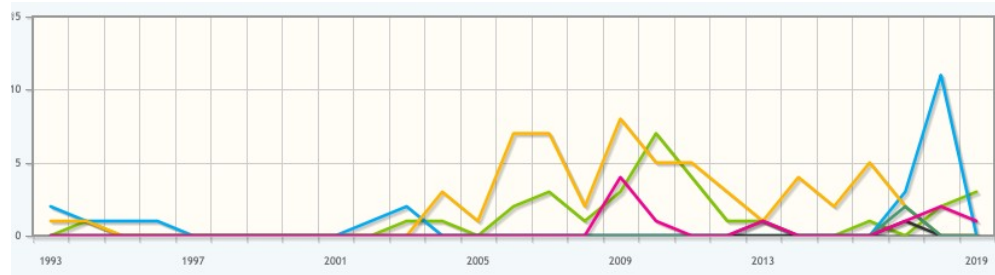
**“I think girls can do
whatever work they want
to do”**

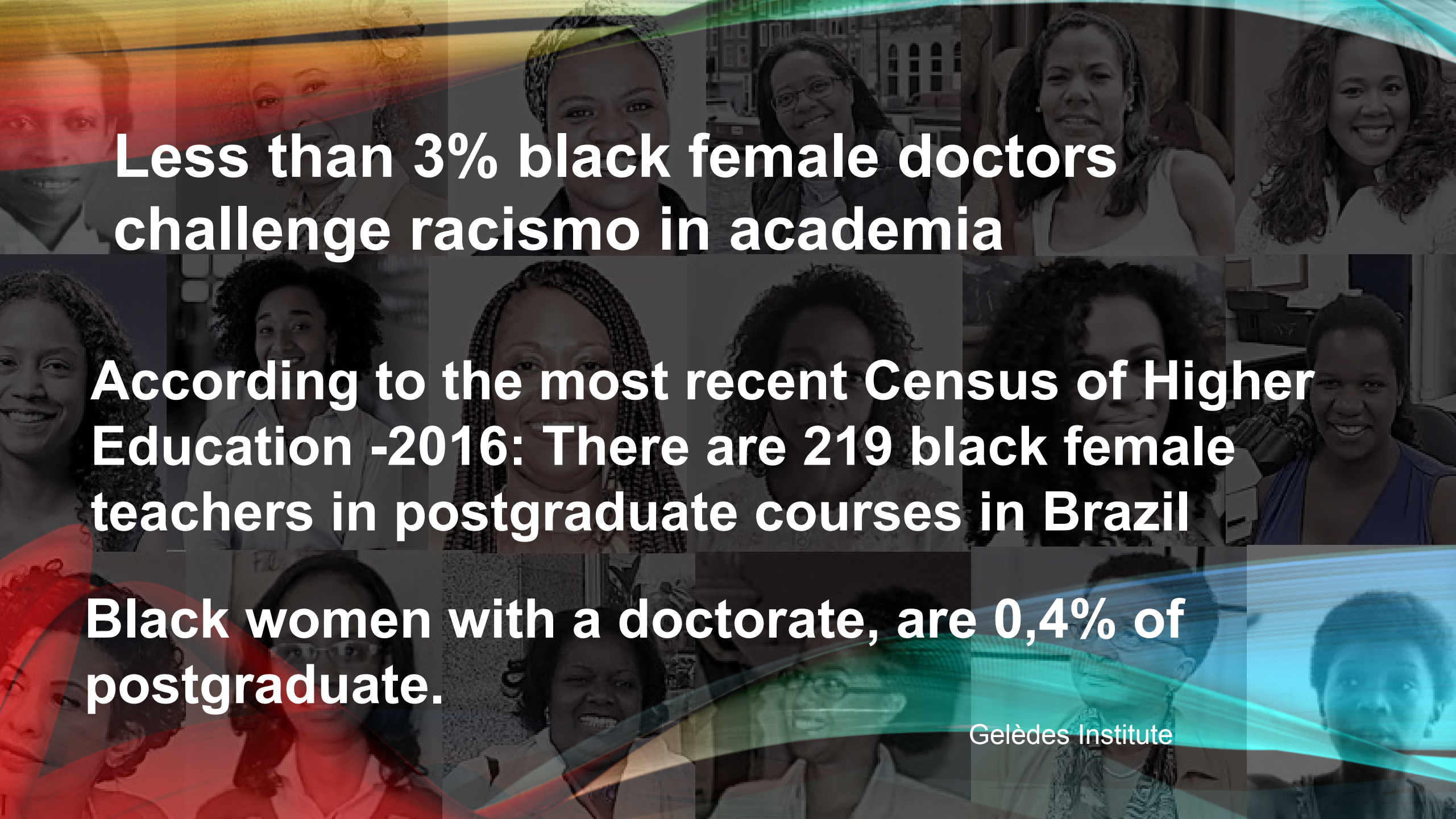










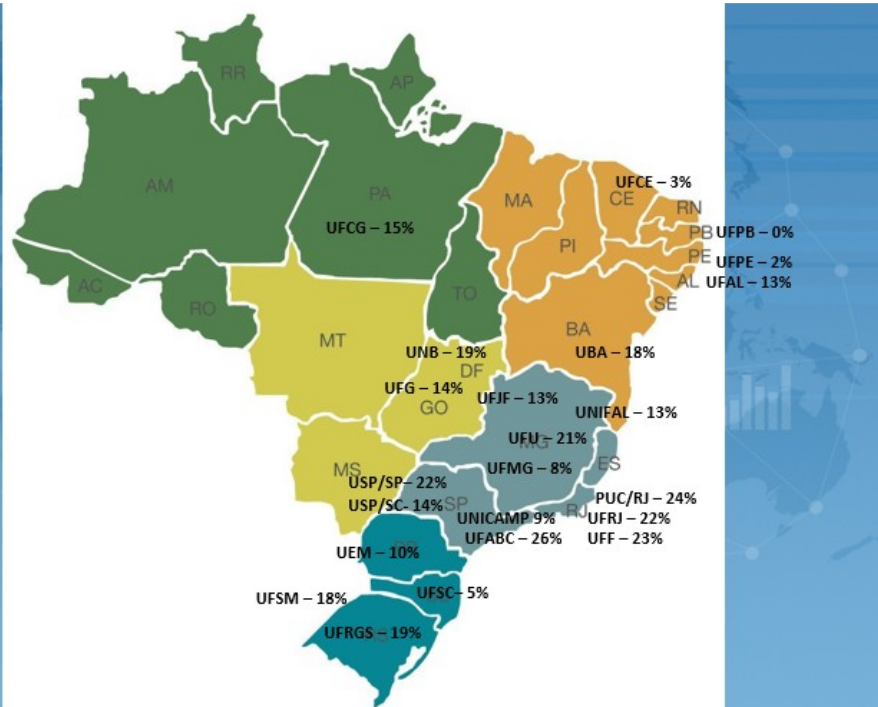


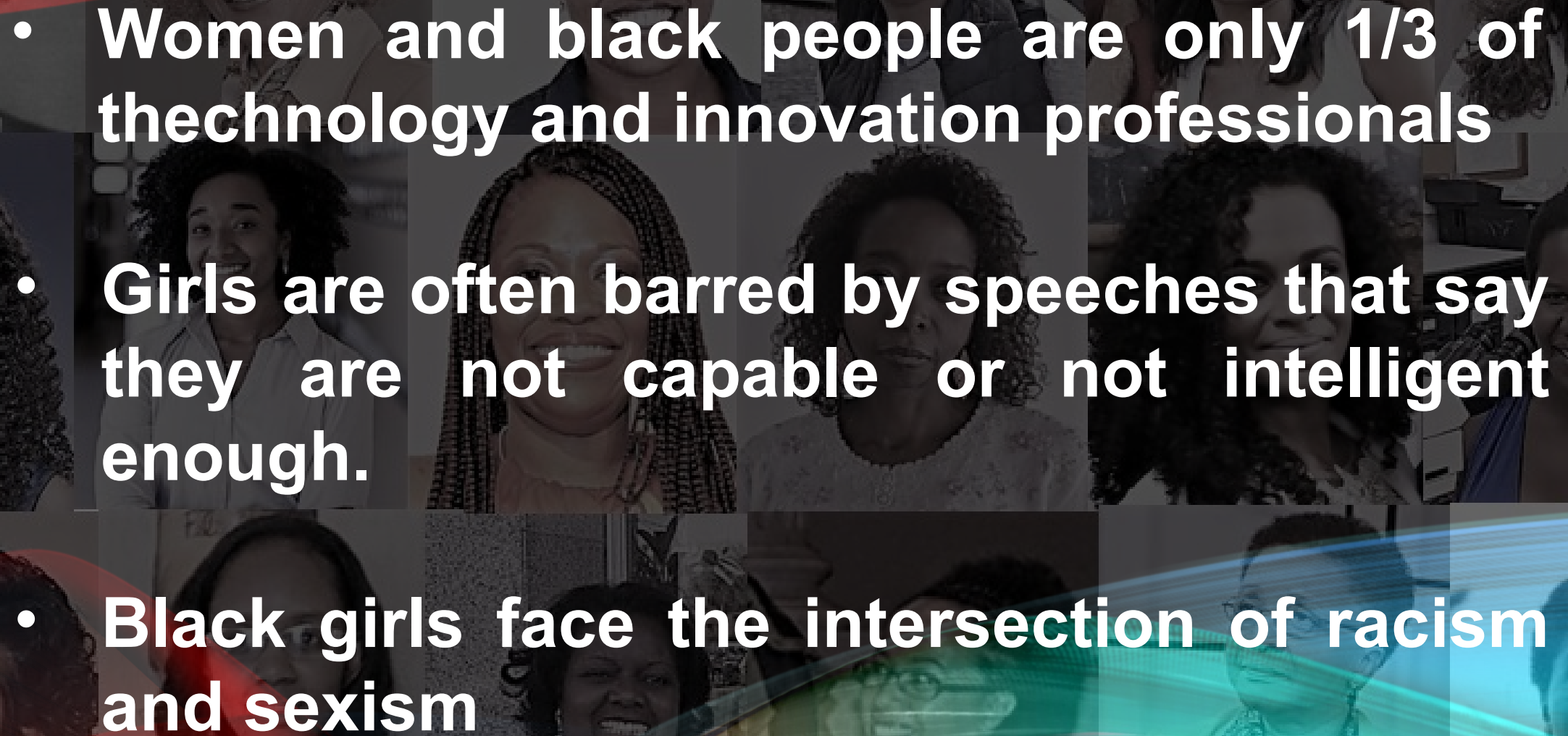
**Less than 3% black female doctors
challenge racismo in academia**

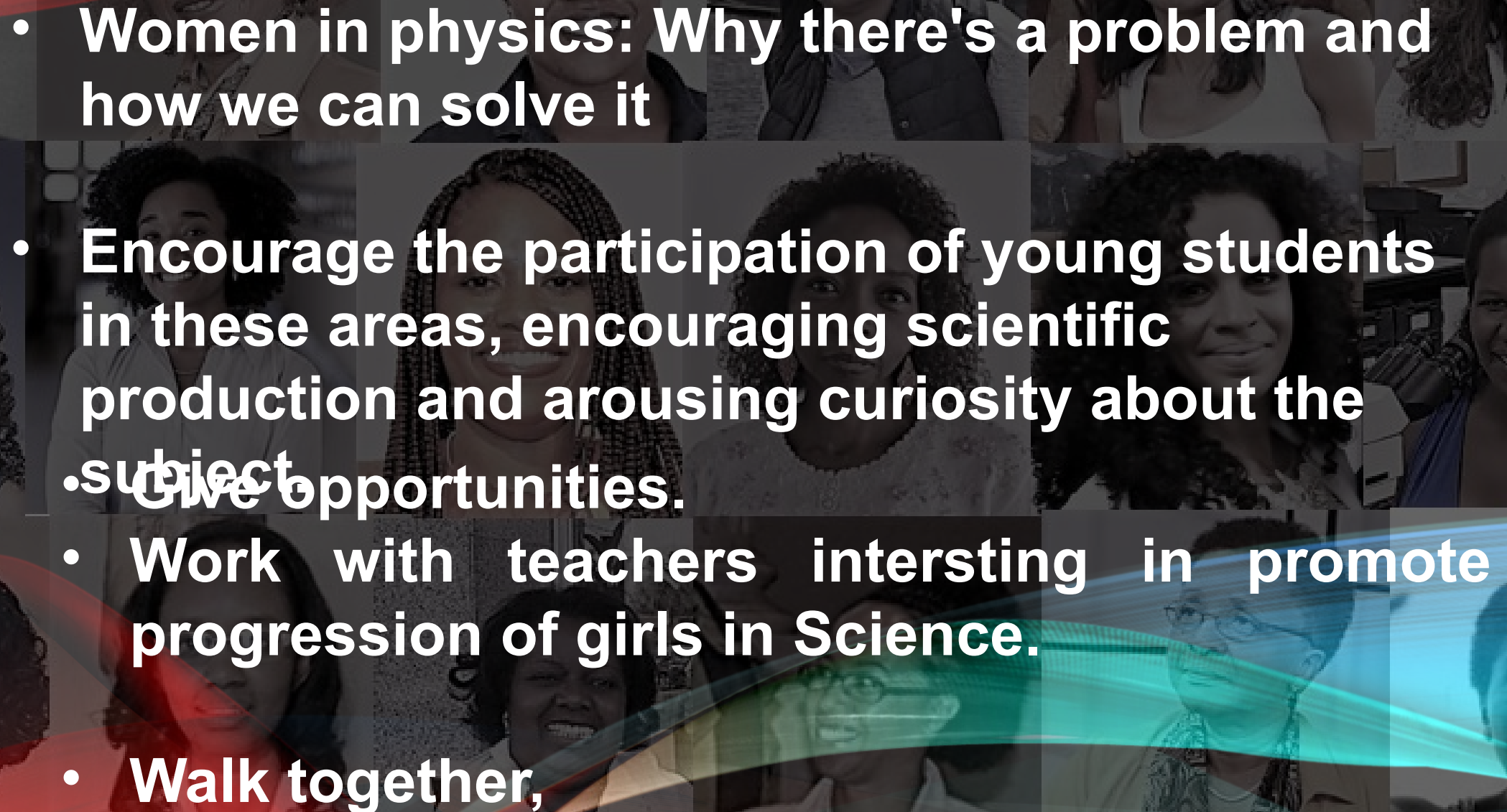
**According to the most recent Census of Higher
Education -2016: There are 219 black female
teachers in postgraduate courses in Brazil**

**Black women with a doctorate, are 0,4% of
postgraduate.**

Gelèdes Institute



- 
- **Women and black people are only 1/3 of technology and innovation professionals**
 - **Girls are often barred by speeches that say they are not capable or not intelligent enough.**
 - **Black girls face the intersection of racism and sexism**

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- **Women in physics: Why there's a problem and how we can solve it**
 - **Encourage the participation of young students in these areas, encouraging scientific production and arousing curiosity about the subject.**
 - **Give opportunities.**
 - **Work with teachers interesting in promote progression of girls in Science.**
 - **Walk together,**




***Today, science, technology and innovation
are among the most powerful forces driving
social change and development***

***When you give to the students the support,
you make them brave enough.***

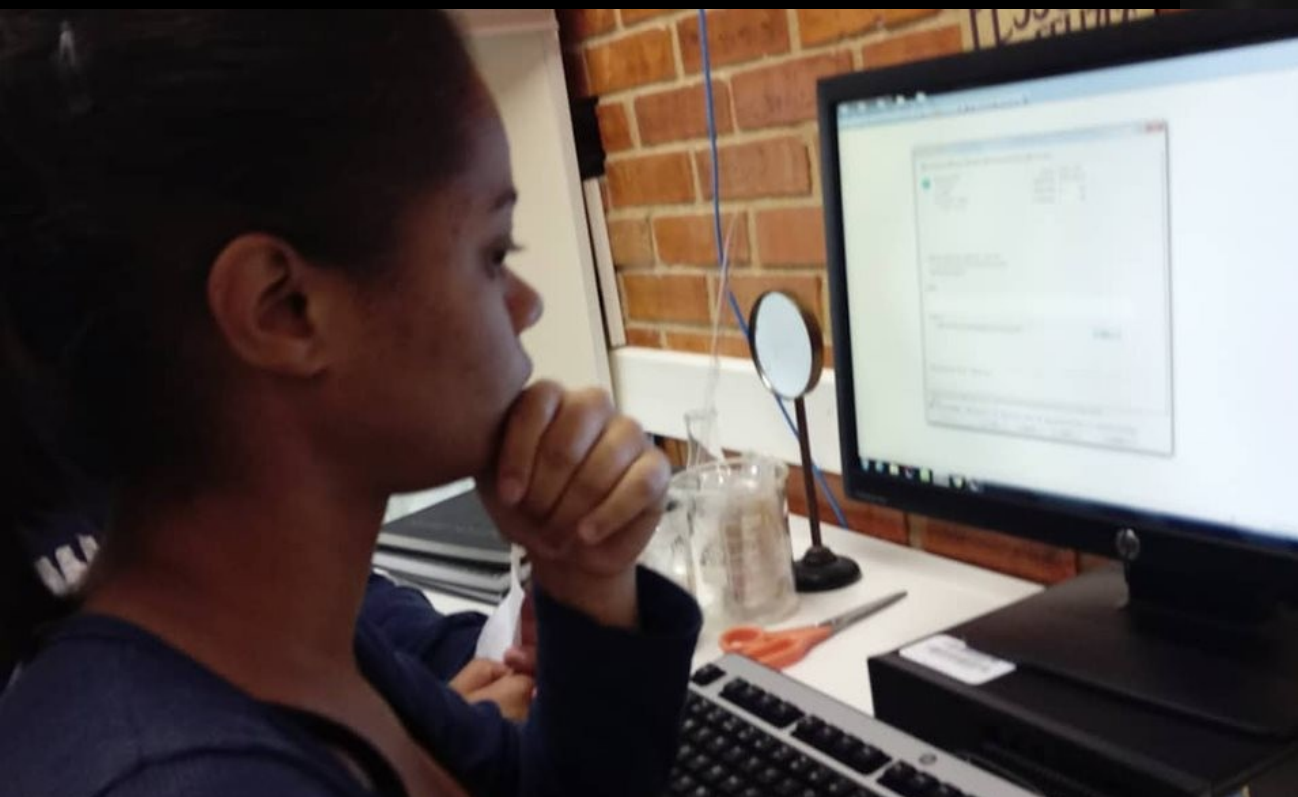
***We can't make them do anything, but we can
empower them...***

***We are building the students up to challenge
gender stereotypes***

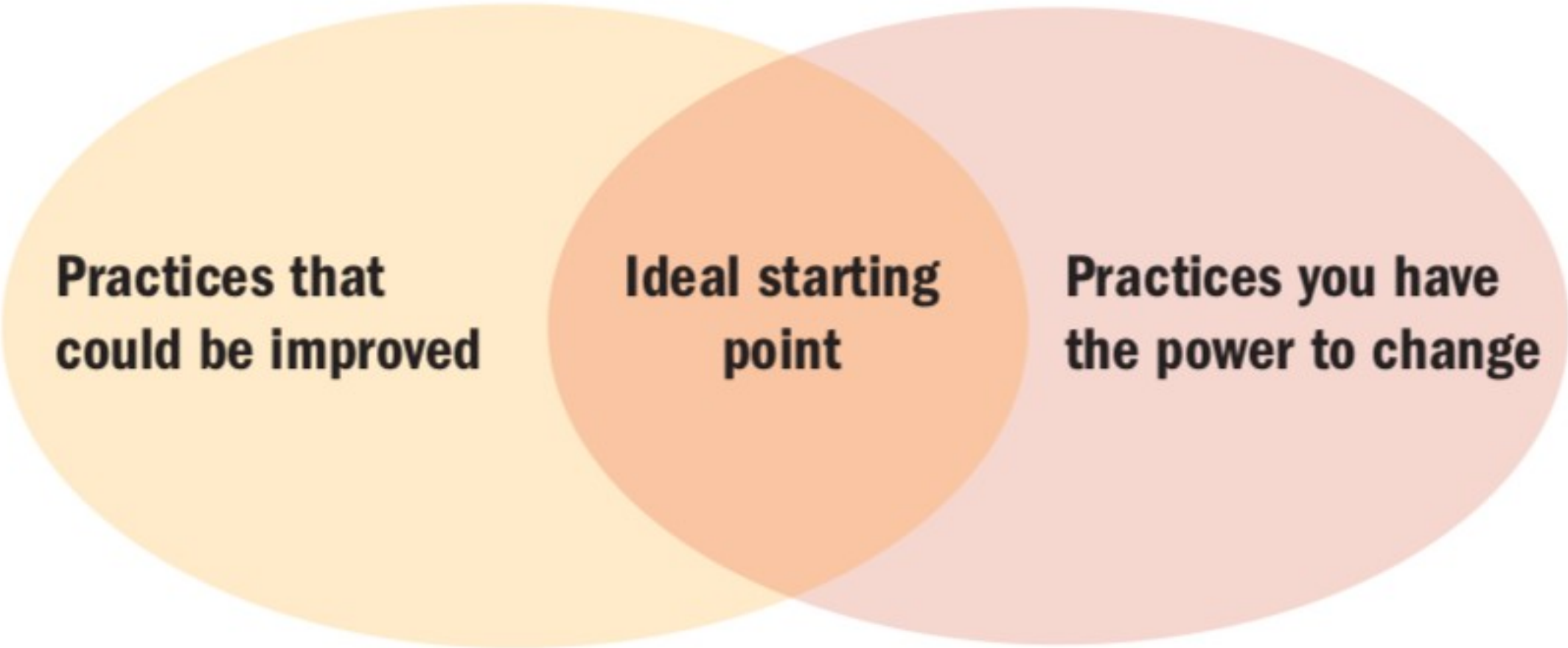


I try to inspire and encourage under-represented students to pursue careers in physics by providing details about my personal journey in physics and by promoting recognition of physics in everyday activities









**Practices that
could be improved**

**Ideal starting
point**

**Practices you have
the power to change**





Bárbara Duque e equipe
UFJF

#1, 2019 www.britishcouncil.org.br

Mulheres na Ciência

revista

VAMOS FALAR DE CIÊNCIA?
Conheça o novo programa do British Council voltado ao fortalecimento das mulheres no universo científico

REPRESENTATIVIDADE DA MULHER NEGRA
Se o acesso de meninas e mulheres ao conhecimento científico e à carreira acadêmica oferece desafios a serem enfrentados, as dificuldades para as mulheres negras são ainda maiores

UM LUGAR ENTRE AS ESTRELAS
Entrevista com Duília Fernandes de Mello, astrônoma, astrofísica e uma das cientistas brasileiras mais reconhecidas internacionalmente

BRITISH COUNCIL

ICTP SAIFR
International Centre for Theoretical Physics
South American Institute for Fundamental Research

WORKSHOP ON SKILLS FOR YOUNG SCIENTISTS/ INCREASING DIVERSITY IN STEM

October 7-11, 2019
at Instituto de Física Teórica - UNESP, São Paulo, Brazil

SPEAKERS AND ACTIVITY FACILITATORS:

Alba Avila-Bernal (UniAndes, Colombia)
Marcia Barbosa (UFRGS, Brazil)
Silvina Ponce Dawson (UBA, Argentina)
Maria Margaret Lopes* (UNICAMP, Brazil)
Zelia Ludwig (UFJF, Brazil)
Laura Merner* (AIP Statistical Research Center, USA)
Lilia Meza Montes (BUAP, Mexico)
Katemari Rosa (UFCG, Brazil)
Elisa Saitovich (CBPF, Brazil)
Giovana Xavier* (UFRJ, Brazil)

* to be confirmed
** other names to be announced

Two workshops in a row. All participants are encouraged to take part in both. The aim of the first part (Oct 7-9) is to give young scientists and science students tools to advance in their careers factoring in a gender perspective. The aim of the second part (Oct 9-11) is to exchange information on the situation of women and under-represented groups that try to do science in Latin America and on the initiatives implemented to reduce the gender gap and increase diversity in STEM.

Activities planned for the Workshop on Skills for Young Scientists

- Accounts by well-established female scientists on how they managed to advance in their careers
- Sessions on inclusive education, gender bias and gender violence
- Sessions on how to write papers and proposals
- Discussion sessions to learn from one another

Activities planned for the Workshop on Increasing Diversity in STEM

- Roundtable on race and racial barriers in the scientific and academic communities
- Discussion of the gender gap in Latin America using the results obtained through the Global Survey of Scientists
- Presentation of the book on the Gender Gap in Science in Latin America
- Talks by participants on existing initiatives in Latin America to increase diversity and reduce the gender and racial gaps in science and to address gender violence within the scientific community

There is no registration fee and limited funds are available for travel and local expenses.

Application deadline:
July 28, 2019
Online application form and information:
<http://www.ictp-saifr.org/diversity>

ORGANIZERS

Alba Avila-Bernal (UniAndes, Colombia)
Marcia Barbosa (UFRGS, Brazil)
Silvina Ponce Dawson (UBA, Argentina)
Helena Nussenzweig Lopes (IM-UFPA, Brazil)
Lilia Meza Montes (BUAP, Mexico)

ICTP-SAIFR STEERING COMMITTEE

Ramiro Suarez (Chair) - ICTP director
Sandra Valdes - UNESP rector
Carlos Brito Cruz - FAPESP scientific director
Luiz Davidovich - Brazil Acad Science president
Juan Maldacena - Representing South America

ICTP-SAIFR SCIENTIFIC COUNCIL

Peter Gossard (Chair) - AS, Princeton
Rafael Faria - ICTP representative
Marcelo Yamashita - IF-UNESP director
Marcelo Cirio - U. de Chile
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Eduardo Fradkin - U. Illinois
Gabriela González - UGO, Louisiana State U.
Berta Koller - UFPA, Rio de Janeiro
Luis Lehner - Perimeter I, Waterloo
Gabriel Mordin - U. de Buenos Aires

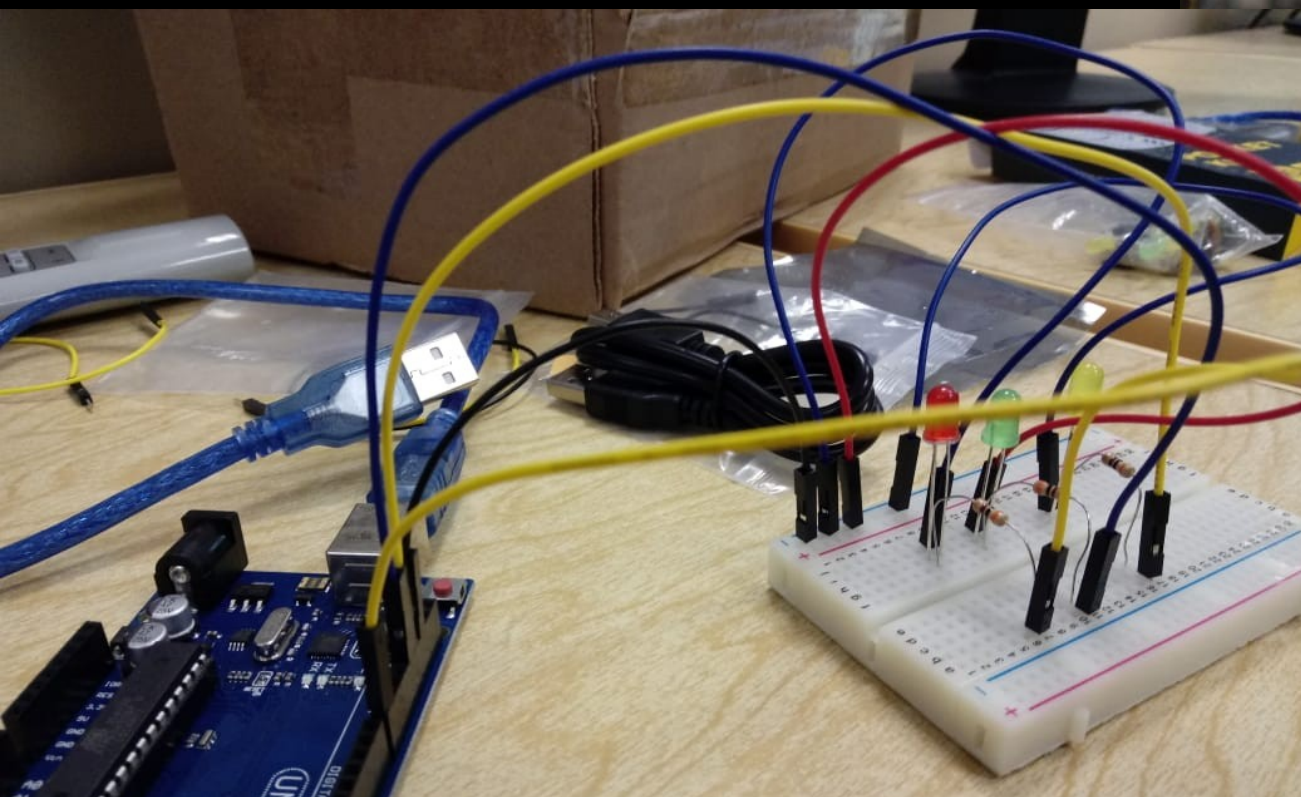
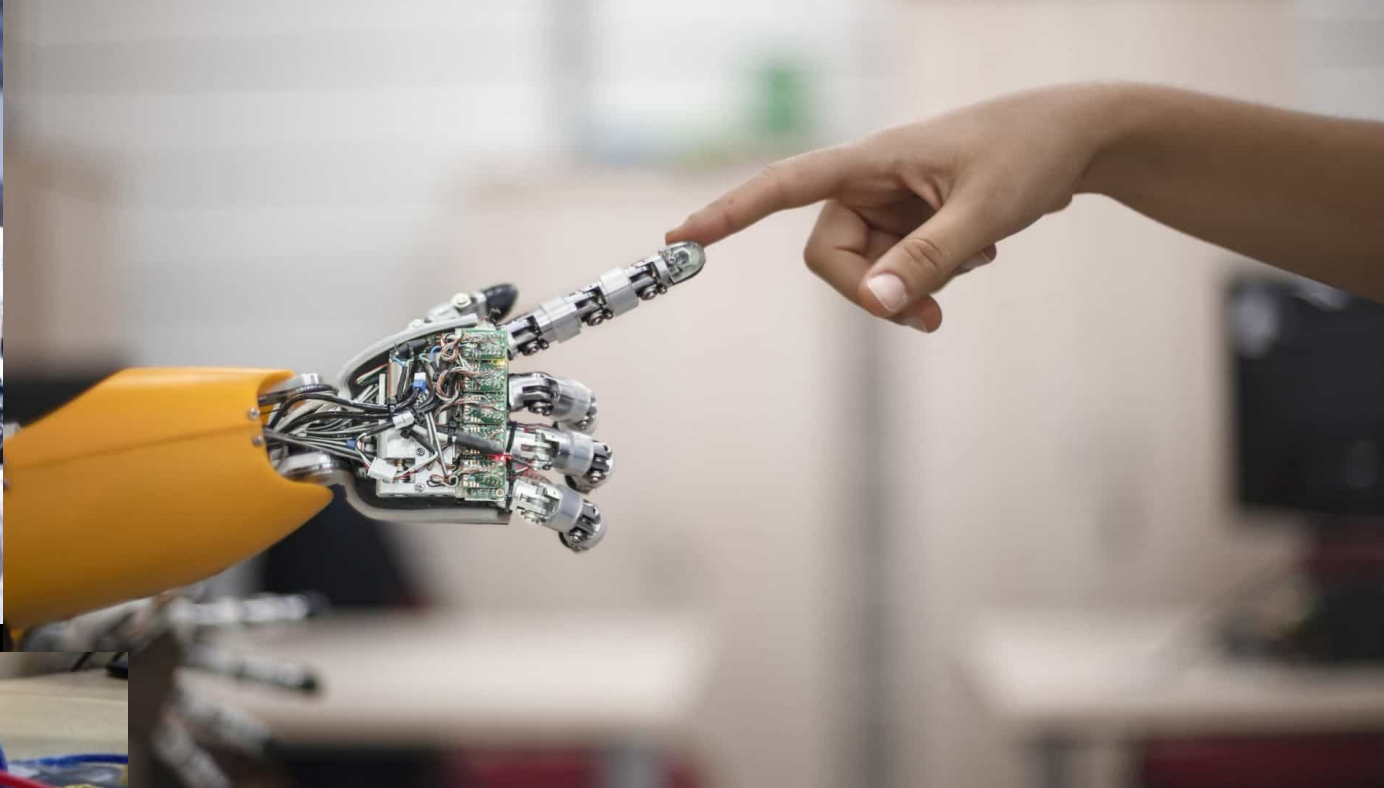
ICTP-SAIFR STAFF

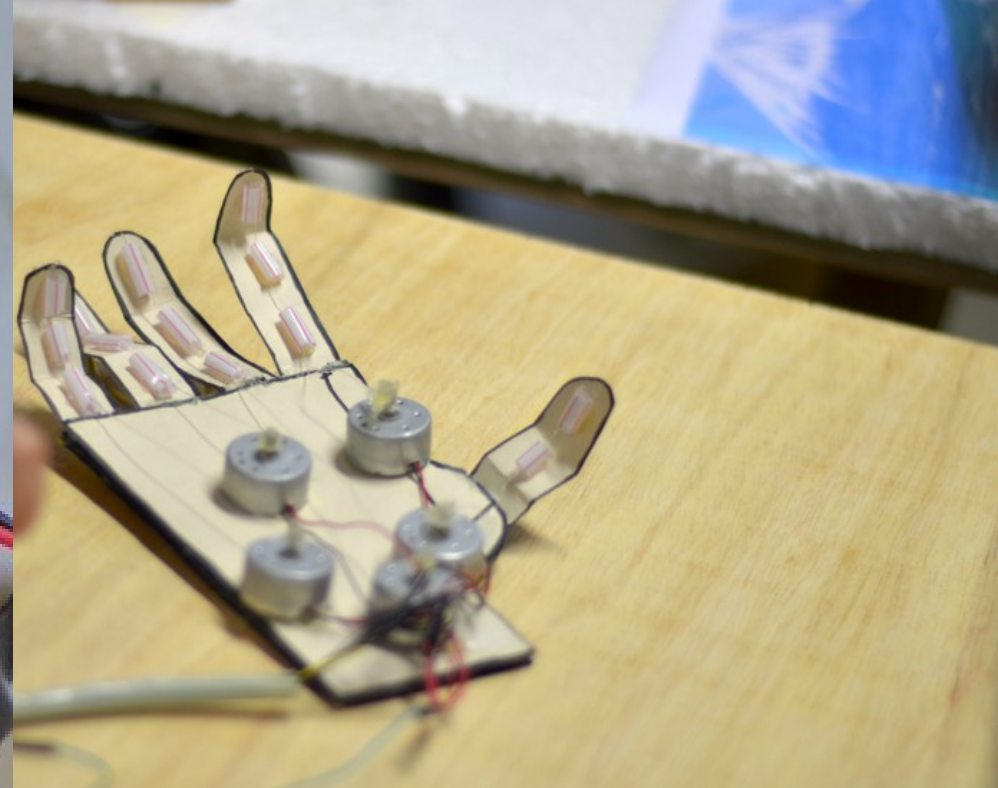
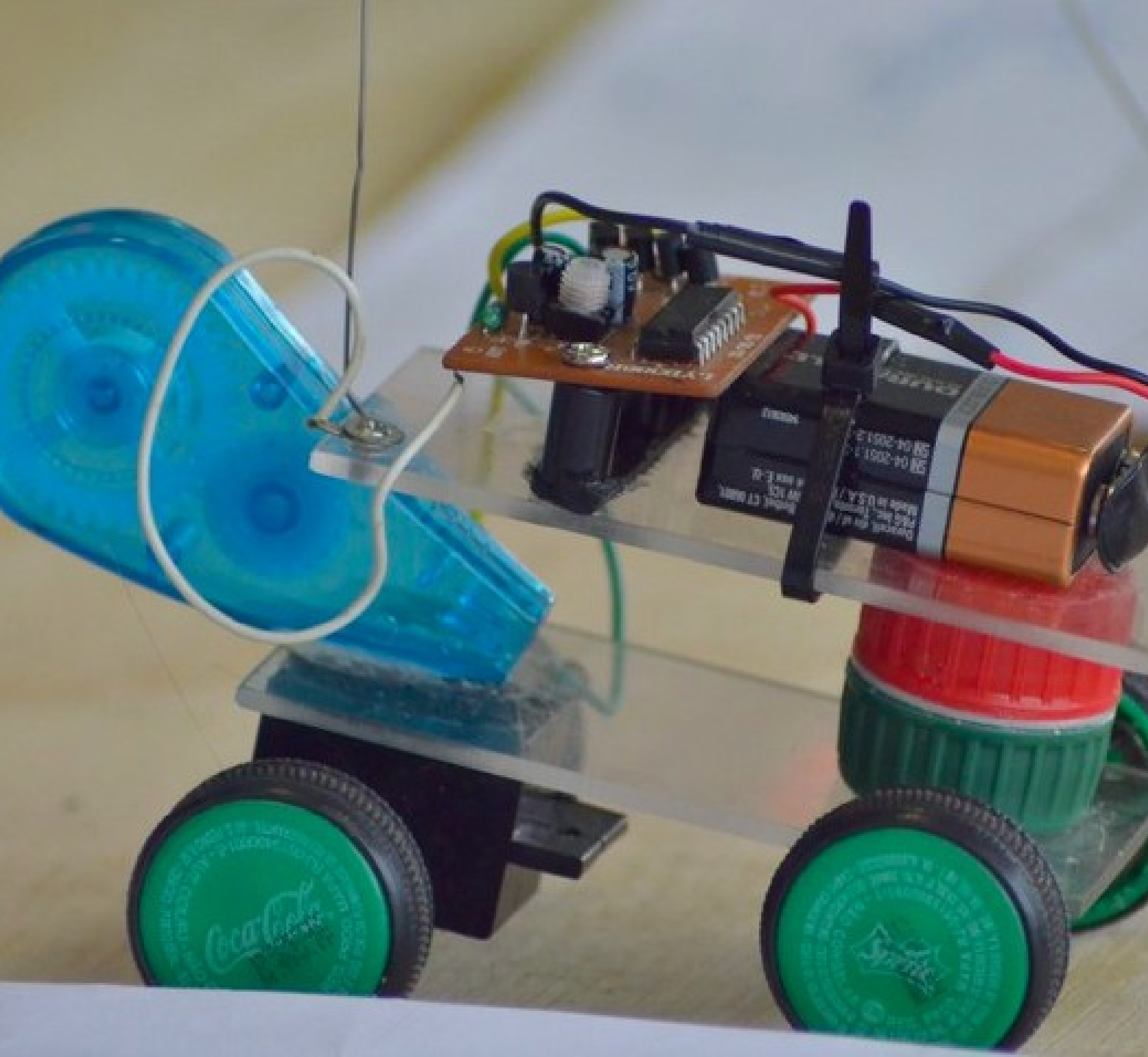
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Rodrigo Rosendel - Vice director
Pedro Vieira - Perimeter-SAIFR Coordinator
Jordana Oliveira - Executive manager
Humberto Napp - Executive secretary
Lucas Sanchez - Computer systems manager
Lucas David - Outreach Coordinator
Ana Lucia Soto - Outreach Coordinator
Lilia Palla - Financial Manager
Mariana Stanilo - Science Journalist
Isabella Pereira - Technical assistant

FAPESP unesp ICTP IFT - UNESP

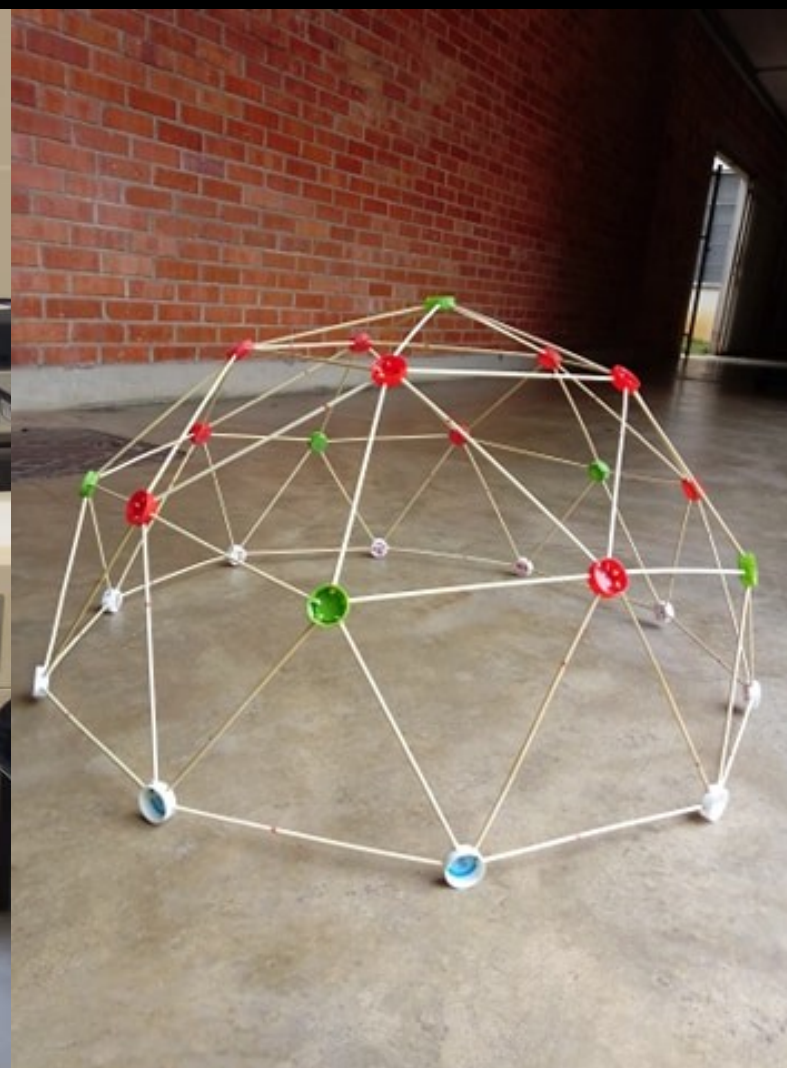
The Internet of THINGS

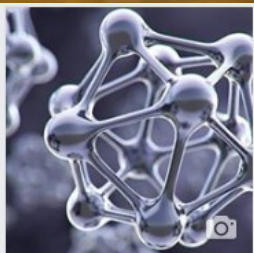




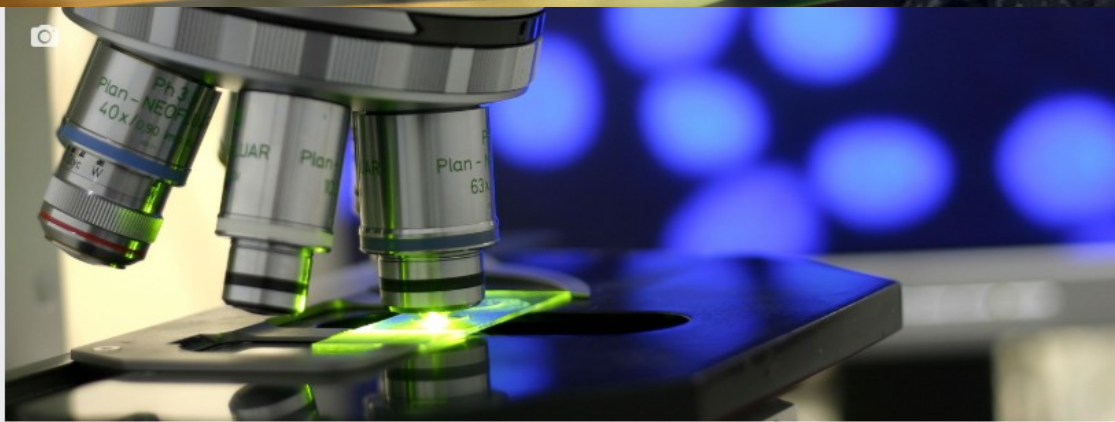








Black Women
Scientists in Brazil -
Race, Gender, and
Science



Mulher, Ciência e
Sociedade
Criar @nomeusuario da
Página



Para Meninas
Negras Na Ciência
Criar @nomeusuario da
Página

*Para Meninas Negras
Na Ciência*

QUARKS

Brazilian Electronic Journal of Physics, Chemistry
and Materials Science



Articles published at
September 2019

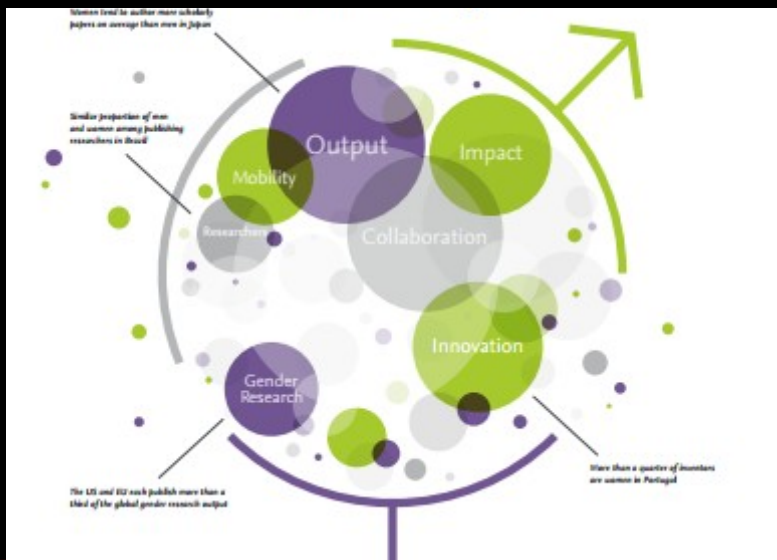
ufjf
UNIVERSIDADE
FEDERAL DE JUIZ DE FORA

PORTAL DE PERIÓDICOS CIENTÍFICOS DA UNIVERSIDADE FEDERAL DE JUIZ DE FORA (UFJF)



United Nations Entity for Gender Equality
and the Empowerment of Women

IUPAP Working Group on Women in Physics



THANK YOU FOR YOUR ATTENTION