

# Venezuela: Academy, Heroes and Diaspora

**Luis A. Núñez**

*Universidad Industrial de Santander, Bucaramanga Colombia*

*Universidad de Los Andes, Mérida Venezuela*

# Venezuela:

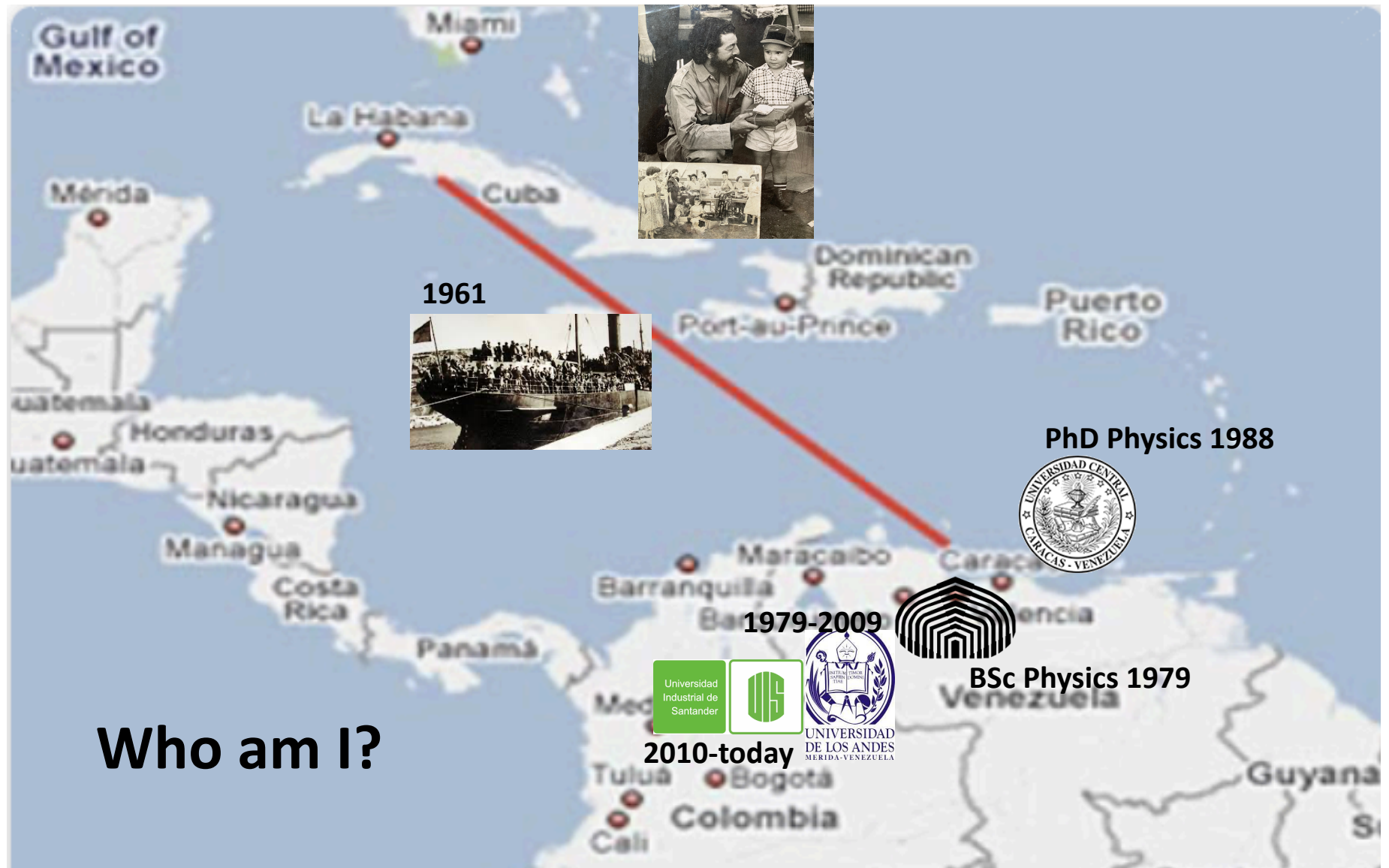
Reinventing the  
Academy and building a  
global country

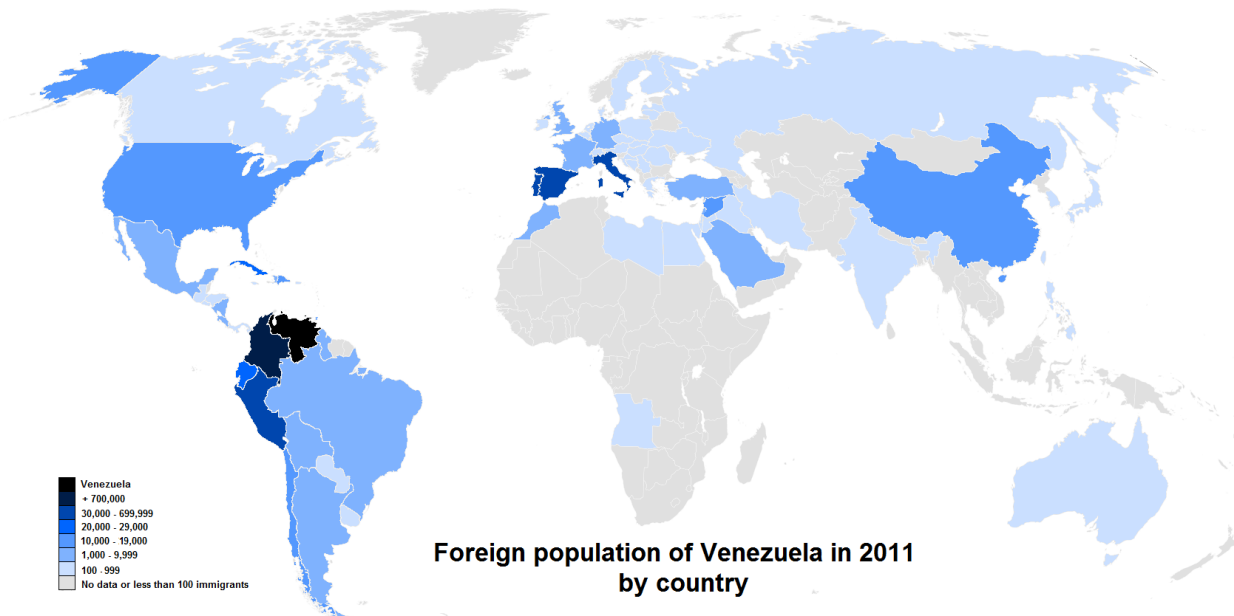


**Our vision:**  
Planning the future  
and implementing  
the present.

José Cheo Silva







[https://en.wikipedia.org/wiki/File:COB\\_data\\_Venezuela.png](https://en.wikipedia.org/wiki/File:COB_data_Venezuela.png)

**From a country of immigrants to  
a country of emigrants**



## The Exodus From Venezuela

Estimated refugees and migrants as of June 2019

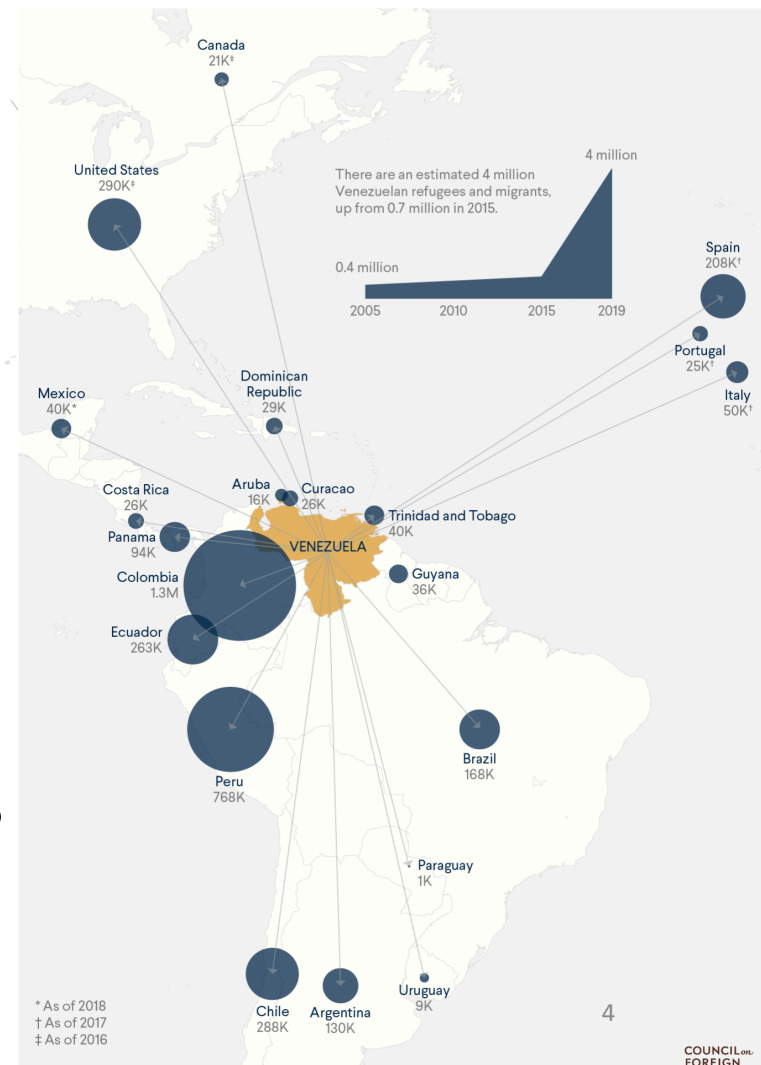
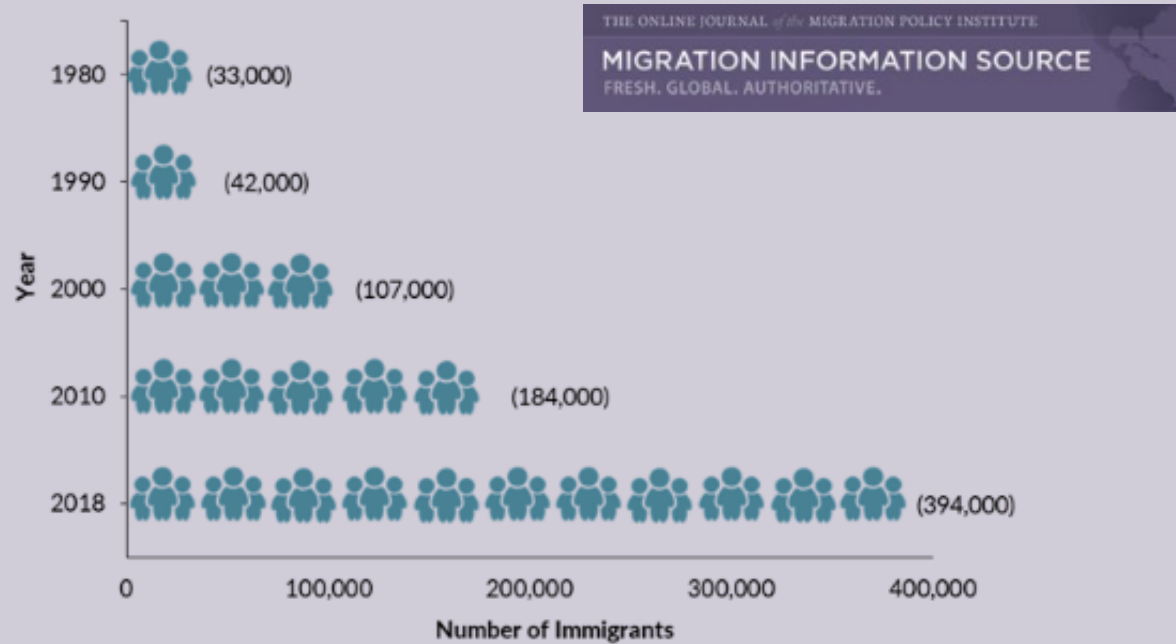


Figure 1. Venezuelan Immigrant Population in the United States, 1980-2018



Sources: Data from U.S. Census Bureau 2010 and 2018 American Community Surveys (ACS), and 1980, 1990, and 2000 Decennial Census.

## New words in our dictionaries

retirement  
discrimination  
underemployment  
remittances  
diaspora  
UNHCR humanitarian migration aid  
pets  
resilience  
cooperation  
refugees  
abandoned





Our University is  
under siege

Muestra de tablas salariales del sector universitario

	2001		2006		2012		2020	
	Bs.	US \$	Bs.	US \$	Bs. F.	US \$	Bs. S.	US \$
Prof. Agregado D.E.	1.191.514	1.601,9	2.329.080	781,6	4.834	208,3	1.201.559	3,3
Auxiliar Doc. III D.E.	845.373	1.136,6	1.652.470	554,5	3.429	147,7	940.997	2,6
Pers. Univers. IV	672.789	904,5	1.309.097	439,3	3.189	137,4	797.456	2,2
Pers. Técnico. 3	486.637	654,3	904.994	303,7	2.381	102,6	655.450	1,8
Pers. Apoyo 3	350.916	471,8	712.314	239,0	2.048	88,2	538.732	1,5
Pers. Obrero 3	318.272	427,9	669.886	224,8	2.048	88,2	475.240	1,3

Fuente: cálculos propios con datos de las tablas salariales oficiales, sin incluir beneficios adicionales.  
Los montos están expresados valores nominales de cada año. La conversión a dólares se hizo considerando el tipo de cambio paralelo del mes de octubre, para los años 2006 y 2012 y el T.C. paralelo del mes de septiembre para el año 2020.

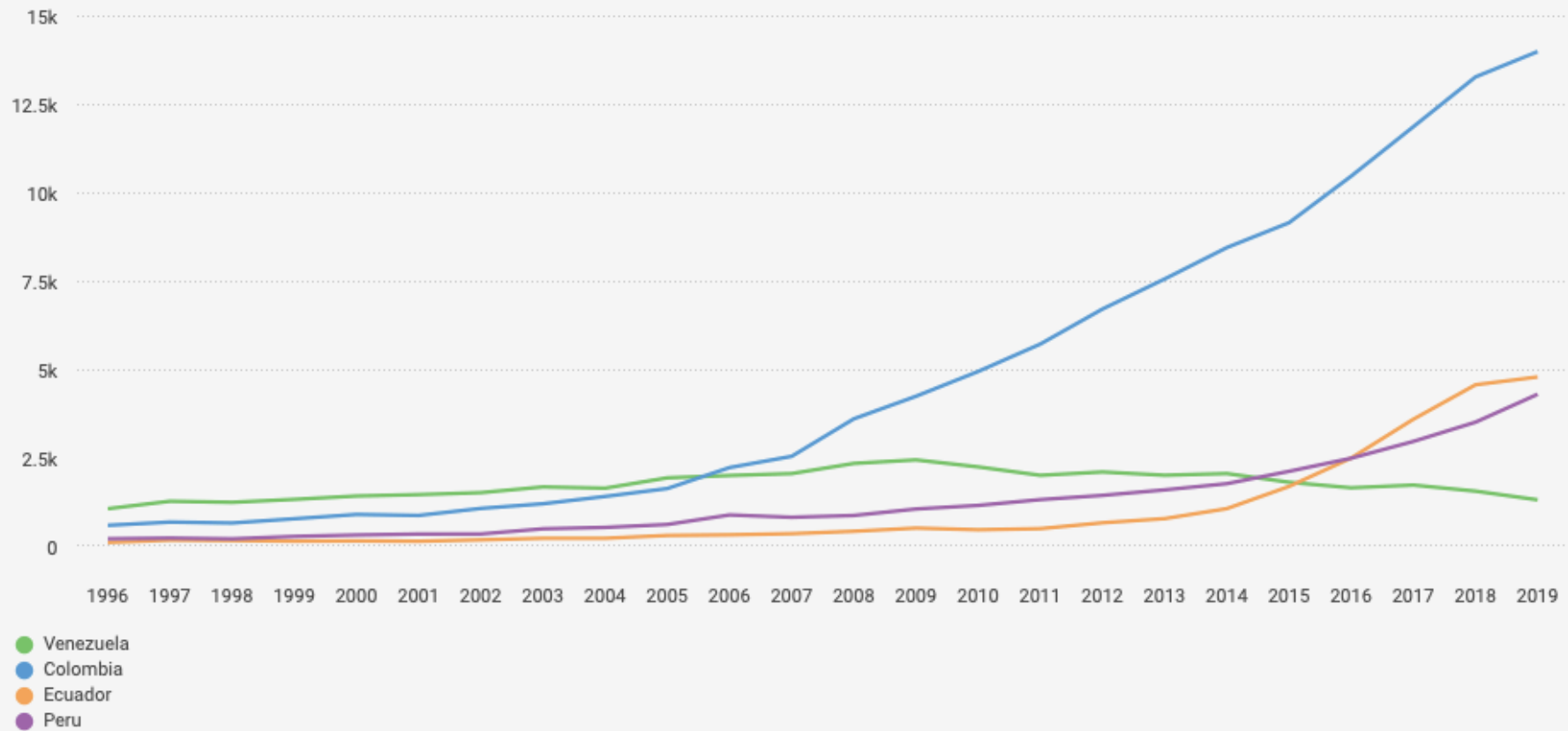


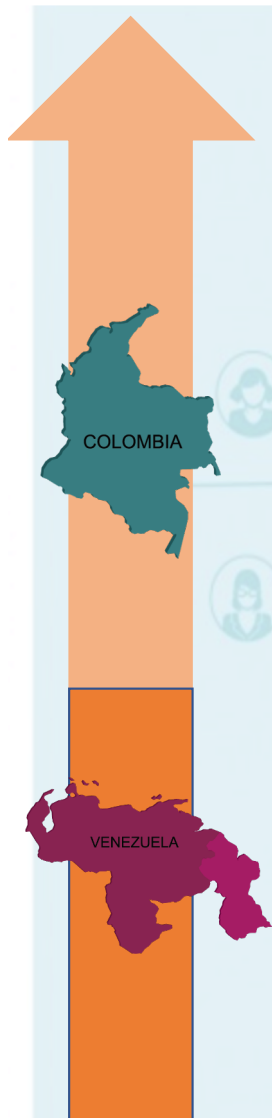
All subject areas



Documents

Number of scientific papers published 1996-2019





- 2018 Latin american Alliance for Capacity Building in Advanced physics LA CoNGA physics
- 2015 Pierre Auger Observatory
- 2012 Europe Latin America Collaborative e-Infrastructure for Research Activities (ELCIRA)
- 2012 Coordination and Harmonisation of Advanced e-Infrastructures for Research and Education Data Sharing (CHAIN-REDS)
- 2010 Centro Virtual de Altos Estudios en Altas Energías CEVALE2 y luego CEVALE2VE
- 2010 Co-ordination and Harmonisation of Advanced e-INfrastructures CHAIN
- 2010 Grid Initiatives for E-Science Virtual Communities in Europe and Latin America (GISELA)
- 2008 Latin American Giant Observatory LAGO
- 2008 E-Science Grid Facility for Europe and Latin America EELA2
- 2006 E-Infrastructure shared between Europe and Latin America EELA
- 2005 High Energy Physics LatinAmerican-European Network (HELEN)
- 1989 1990 1992 2000 ICTP schools in Physics/Astrophysics/Networking/HPC

**Collaboration Networks:**  
**If you want to be invited to the parties**  
**you have to frequent them**

Claudio Mendoza





Ilustración de Ada Peña para la Revista Persea. Muchos colaboradores faltan en esta foto!



## Educación

### Los venezolanos expatriados que enseñan física gratis por videoconferencia a estudiantes de Venezuela

Es un grupo altamente calificado de ese éxodo venezolano que se encuentra en Europa y EE.UU. y que no quiere dejar de tener contacto con su país. La mayoría está en su treintena y se encuentra en algunos de los centros de investigación científica más importantes del mundo.

6/20/2018



De izquierda a derecha: Manuel Vielma, Joany Manjarrés, Arturo Sánchez, Anabel Romero, Heberth Torres y Camila Rangel. Son parte de los instructores de CEVALE2VE. - Foto: Foto: CEVALE2VE vía BBC

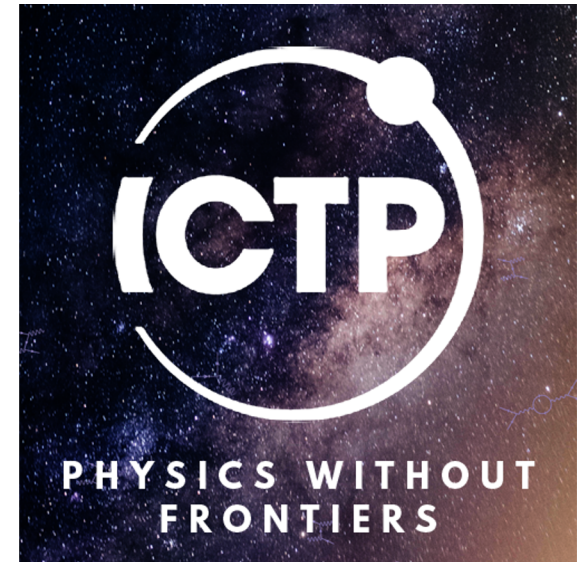
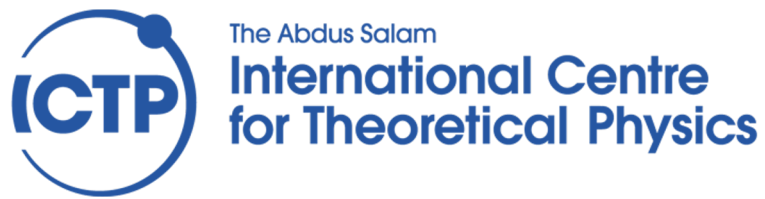
Son las 7:35 de la noche en Ginebra y el científico venezolano Arturo Sánchez entra en su casa.

Acaba de llegar de su trabajo en la que es considerada la meca de los físicos en todo el mundo.

Sánchez es uno de los doctores en física fundamental y aplicada que trabaja en el mayor centro de Investigación dedicado a la física de partículas del planeta: el

## Venezuelan expatriates teaching physics by videoconference to students in Venezuela

It is a highly qualified group of that Venezuelan exodus that is in Europe and the U.S. and does not want to stop having contact with their country. Most of them are in their thirties and can be found in some of the most important scientific research centers in the world.



**Inspiring physics students**

**Building scientific bridges between Latin American countries**

**Expand the support network for young students and researchers**



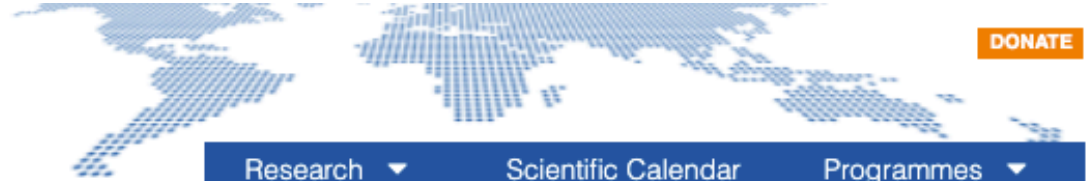
## What we dare (modestly) to call achievements

- +120 students in our courses in Venezuela, Colombia and Peru
- 20 have participated in international schools, 6 in masters programs and 5 in doctoral programs
- Hundreds of hours of audio-visual material available to the public





The Abdus Salam  
International Centre  
for Theoretical Physics



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## Physics Without Frontiers

Worldwide physics outreach

Contacts:   

PWF UNIVERSITY COURSES

PWF SCHOOLS

PWF ROADSHOWS

APPLY

NEWS

PWF PROJECTS

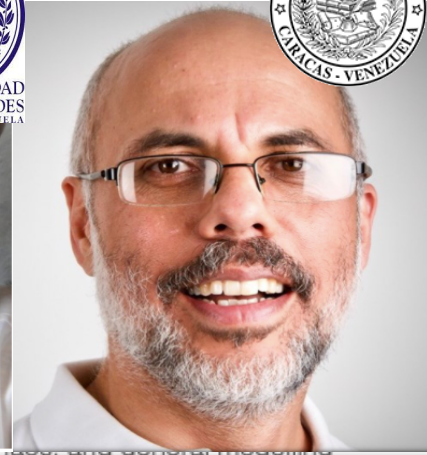
BRAINGAIN-VENEZUELA

Fellows 2019

AFGHAN-IRANIAN MSC

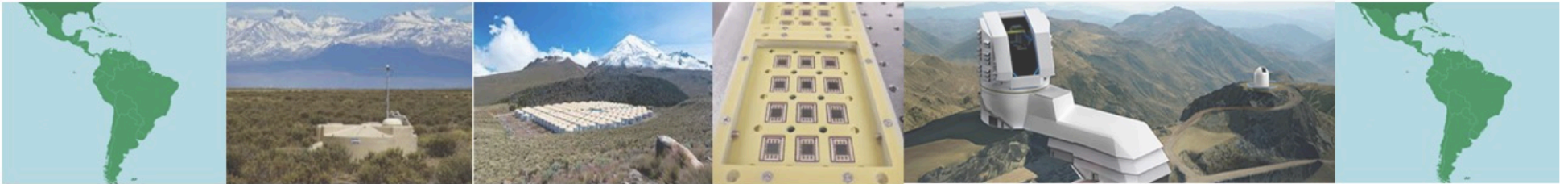


## BrainGain Fellows





# LASF4RI



## Latin American Strategy Forum for Research Infrastructure

*Developing a strategy to strengthen Latin American Scientific Collaborations and their impact.*



Funded by the European Union Erasmus+  
 Modernization of the educational system based on:  
 Virtual learning platform  
 Teaching laboratories  
 Scientific and technical internships  
 3 years, starting in 2020



Three moments

- Today
- The Day After
- Tomorrow



# Three moments: 3R

- Today
  - Resilience
- The Day After
  - Reconstruction
- Tomorrow
  - Remembrance



Planning the future and implementing the present

José Cheo Silva



# Tres R, Tres Obviedades y una simultánea en tres tableros

## Today = Resilience

Supporting together as a global country  
A country in the diaspora

- Moving researchers to maintain health
- Cooperate, cooperate to keep the dreams
- Supporting, promoting students abroad

## D-Day = Rebuilding

Planning How & where to Start

- Repatriating talent
- Rearranging the academic fabric
- Cooperate, cooperate to rebuild dreams

## Tomorrow = Remembering

Planning the future, implementing the present

- Looking at ourselves in the mirror of our mistakes
- From fast track to evolutionary marathon
- Cooperate, cooperate to evolve dreams

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Thanks

and... next year in Merida