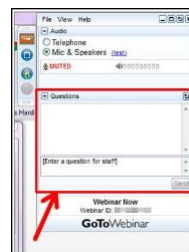
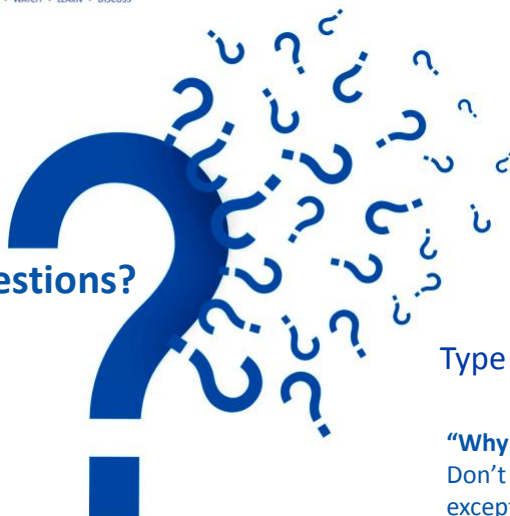


Have Questions?



Type them into questions box!

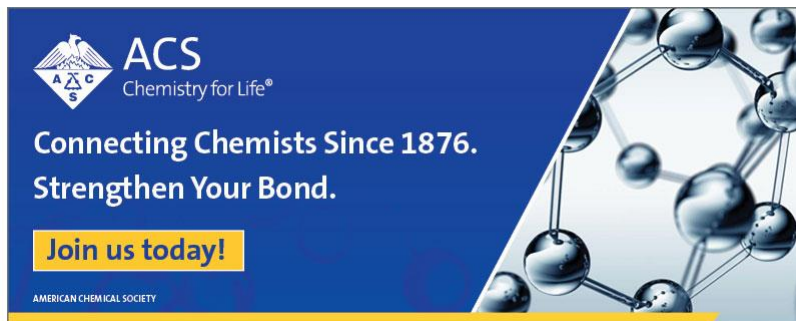
“Why am I muted?”


Don't worry. Everyone is muted except the presenter and host. Thank you and enjoy the show.

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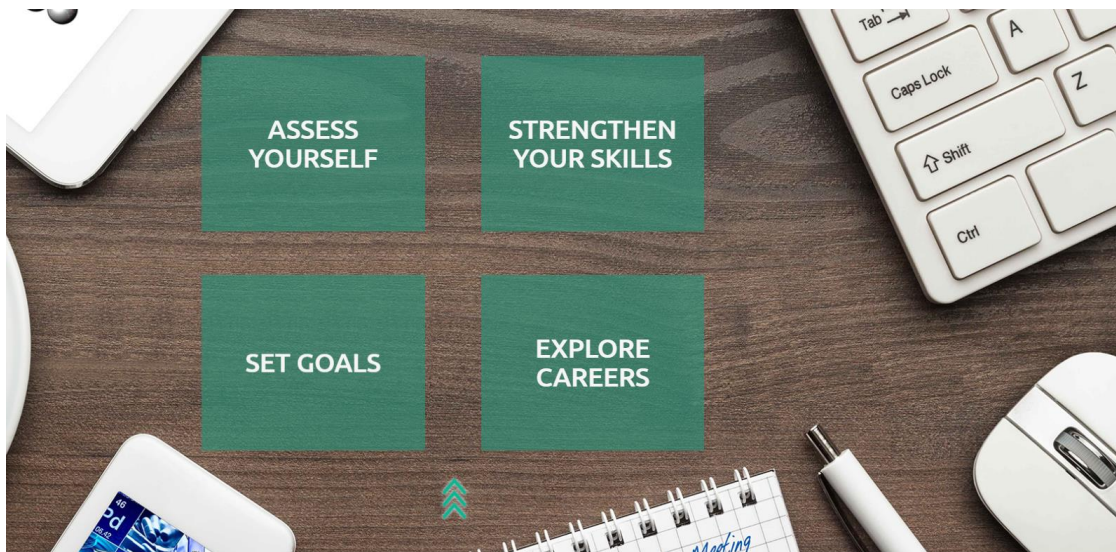
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7

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Paul Hodges
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Co-produced with the ACS Division of Medicinal Chemistry



Ajay Yekkirala
Blue Therapeutics



Jane Aldrich
University of Florida

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Refugees, Displaced Scientists, and Chemistry Communities: Creative Approaches to Support Chemical Practitioners



Dr. Dorothy Phillips
Director-at-Large, Board of Directors,
American Chemical Society



Dr. Admir Masic
Professor, Massachusetts Institute of
Technology and Founder of the MIT
Refugee Action Hub (MIT ReACT)



Dr. Robin Perutz
Professor, University of York



Dr. Jeff Wilkesman
Professor, University of Carabobo and
Guest Professor, University of Applied
Sciences Mannheim

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ACS Science and Human Rights



ACS EFFORTS:

- Build science and human rights awareness among its members and the global chemistry community through webinars, symposia, news articles, and other outreach efforts
- Implemented at the level of its Board of Directors; addressing issues where ACS is uniquely positioned and qualified to make a meaningful impact
- Directed toward human rights abridgement cases where the rights and welfare of professionally engaged chemists and related practitioners are threatened

GET INVOLVED!

Join the **ACS Science and Human Rights Alert Network** at www.acs.org/scienceandhumanrights

Report human rights abridgements to Intlacts@acs.org

11



Robin Perutz

Professor of Inorganic Chemistry at the University of York



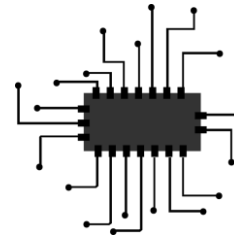
12

Those fleeing conflict may also help us

Chatting at school gate to couple,
Davor and Ljerka, from Sarajevo
doing PhDs in computer science,
our sons in the same class



Davor builds a computer control
system for my instrument for
time-resolved spectroscopy



13



Those fleeing conflict may also help us

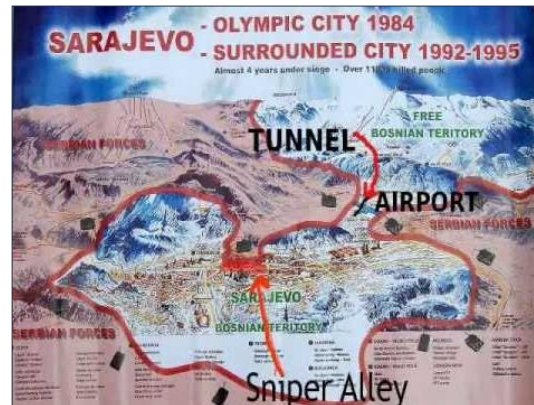
But war in Bosnia makes it
impossible to go home



Campaign to get the family the
right to remain in the UK



Citizenship and now, 30 years later, that
little boy is consultant urologist



14



Council for At-Risk Academics Scholar Rescue Fund



Provide fellowships for threatened scholars to continue their work in safety at academic institutions all round the world

cara

www.cara.ngo

Founded in 1933 to help refugees from Nazi Germany



www.scholarrescuefund.org

A fund of the Institute of International Education

15



York: Human Rights City Declaration



York, in becoming a Human Rights City, embraces a vision of a vibrant, diverse, fair and safe community built on the foundations of universal human rights. April 2017



Refugee Action York (RAY)
www.refugeeactionyork.org



City of Sanctuary aims to build a culture of hospitality for people seeking sanctuary in the UK.

16



Audience Challenge Question

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT



How many of the following Nobel Prize winners were forced to leave their countries by political and racial intolerance or war? (0, 4, 6, 8, or 10)



Albert Einstein



Ahmed Zewail



Erwin Schrödinger



Rosalyn Yalow



Yves Chauvin



Dorothy Hodgkin



Enrico Fermi



César Milstein



Walter Kohn



Max Perutz

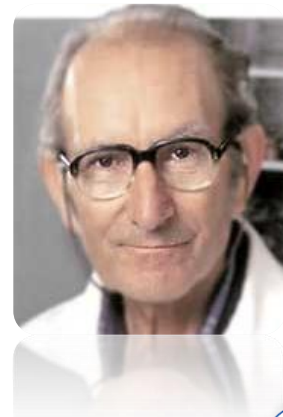
17

They may not be famous when they arrive



César Milstein Nobel Prize 1984
Invention of monoclonal antibodies

The political persecution of liberal intellectuals and scientists [in Argentina] manifested itself as a vendetta against the director of the institute where I was working. This forced my resignation and return to Cambridge [in 1963] to rejoin Fred Sanger.



18



A Call From CARA



September 2014: A chemist arrives in York from Aleppo as a research visitor with support from CARA.

Jan 2015: Harry's wife and two children arrive.

Helping one family takes many people and organisations:

- CARA
- The lab – me
- The University
- Refugee Action York
- City of York Council
- The children's school

19



Two more Syrians in York Chemistry



OLIVIA from Homs

Supported by CARA as a research visitor, arrived 2016

THOMAS

Supported by Scholar Rescue Fund and University of York as a research fellow 2016-17

Wife has become doctor. Two children in school.

Lectureship in University of Lincoln, Oct 2017

20



What Harry didn't know



My connection to the International Human Rights Network of Scholarly Academies as Royal Society representative

INTERNATIONAL HUMAN RIGHTS NETWORK
OF ACADEMIES AND SCHOLARLY SOCIETIES



<https://www.internationalhrnetwork.org>

21



What Harry didn't know



The Family Connection:

My father was a student in Cambridge when his native Austria was invaded in 1938: became stateless.

My mother was from Berlin, fled with family in 1933.

My parents met in the offices of CARA!



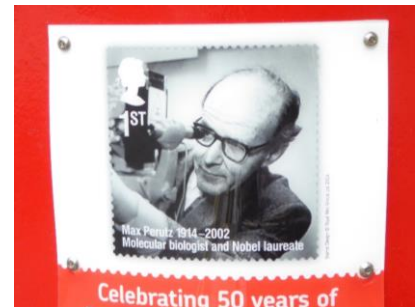
22



What Harry didn't know



1962



2014

23



Refugees, Displaced Scientists, and Chemistry Communities: We can help scientists fleeing conflict

- As scientists, we can help individuals, for instance by hosting them in our laboratories, or by raising funds for bursaries
- Those who you host, may also help your own science
- Einstein arrived in the USA as a famous scientist, but other displaced scientists became famous only after they arrived
- Helping one family takes many people and organisations
- Reaching out to refugee scientists will enrich your own scientific experience

24





Admir Masic

Founder of the MIT Refugee Action Hub (MIT ReACT)



ReACT
Refugee Action Hub



**Massachusetts
Institute of
Technology**

25



ReACT
Refugee Action Hub

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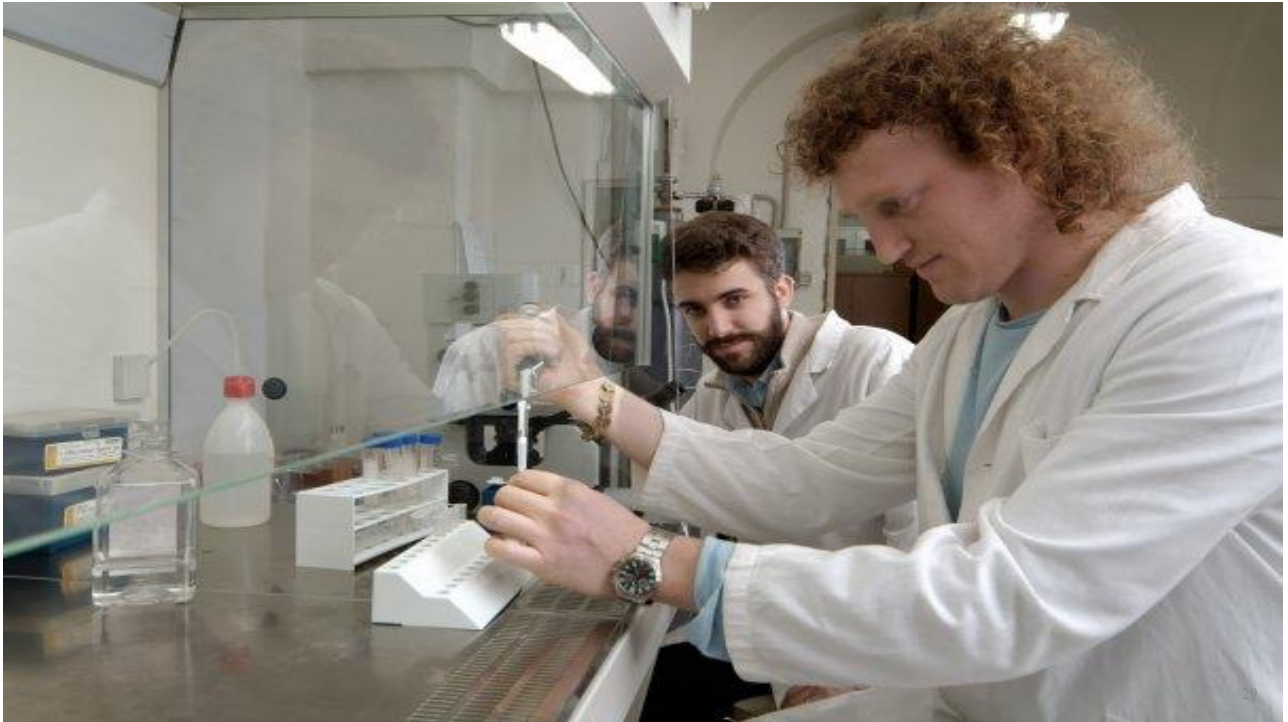


MIT ReACT: History

Youth in a refugee camp

- Limited mobility
- Poverty
- Discrimination
- Depression and PTSD

- Exposed to criminal elements
- Risk of radicalization
- Motivated but no opportunities
- Work just to survive



Audience Challenge Question

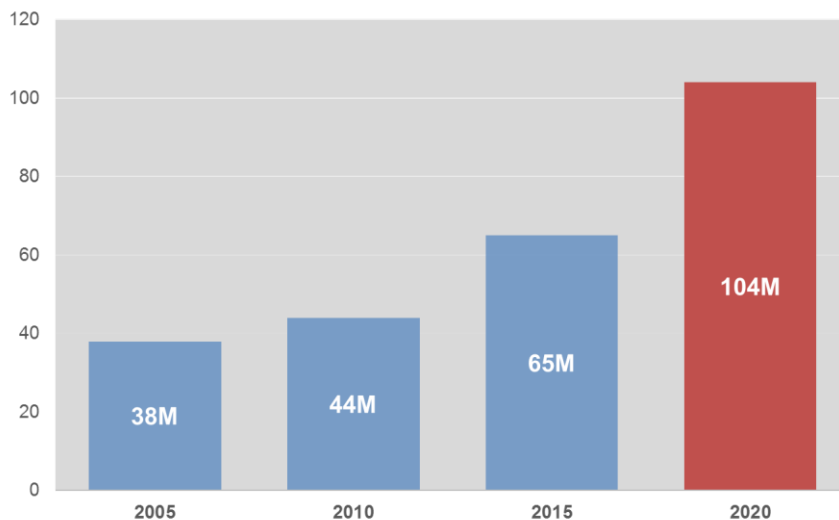
ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT

According to UNICEF how many people worldwide were forcibly displaced in 2015?

- **650,000** (about the population size of Washington, DC)
- **6.5 million** (about the population size of the state of Indiana)
- **10 million** (about the population size of the state of North Carolina)
- **28 million** (about the population size of the state of Texas)
- **65 million** (about the population size of California, Florida, and Louisiana combined)



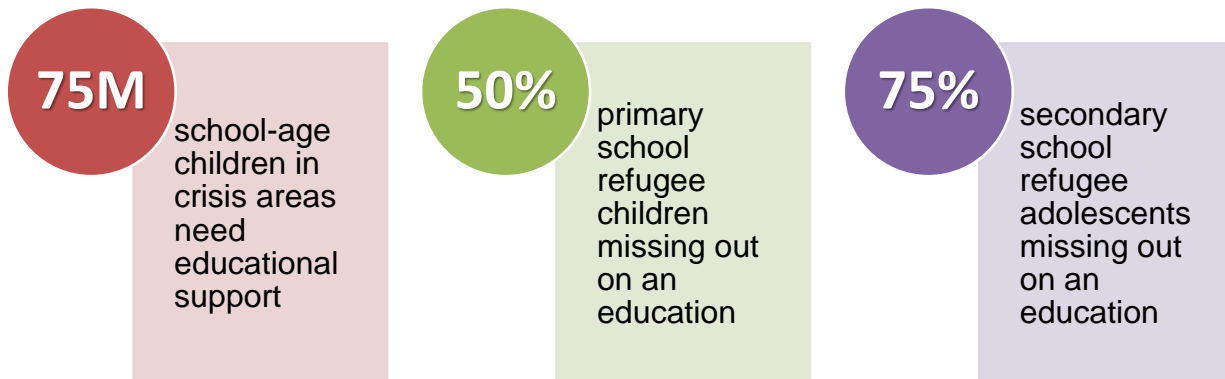
Forcibly Displaced People By The Millions. (Source: UNICEF)



31

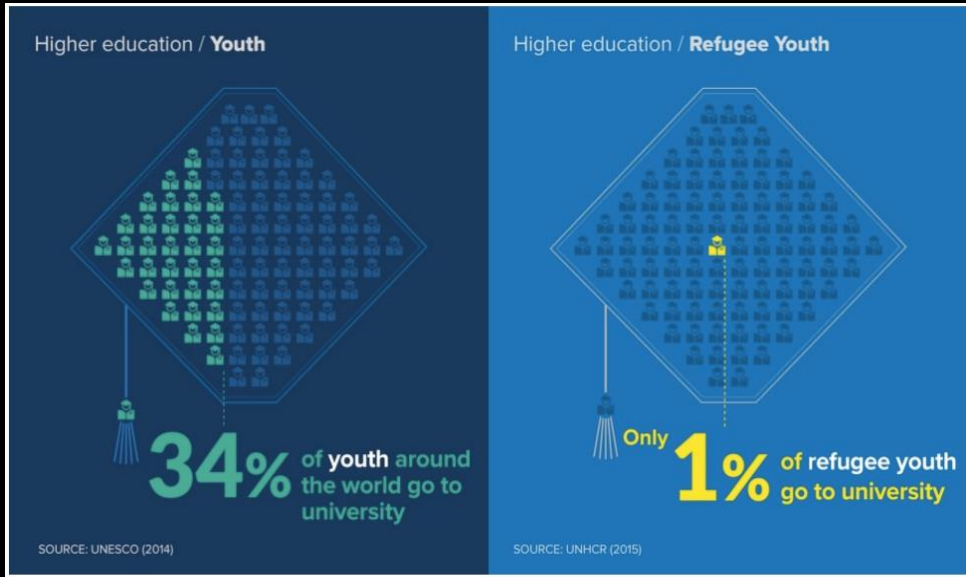


School attendance records for refugees are incredible poor.



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Problem 1: Access

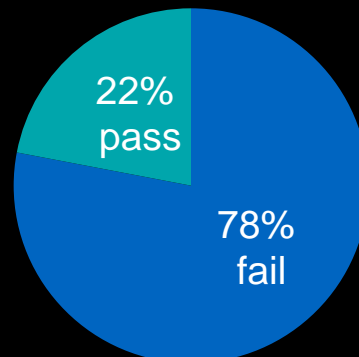


Problem 2: MOOCs



10%
Completion rate

Intended Certifications



1:5 who intend to earn course certification succeed

Problem 3: Opportunity Cost



93%

of refugees in Jordan live below the poverty line



36

Imagine A Borderless Future Of Education



global
accessible MIT education
reaching displaced populations where they live
recognizing lifelong potential
careers
ecosystems
new capacity

36

MIT REACT CERTIFICATE PROGRAM

Apply to enroll in the MIT ReACT Certificate Program beginning January 14 2018.

Apply now

37


What is the MIT ReACT program?




MIT ReACT Certificate Program

1 year onsite & online certificate program in computer & data science paired with entrepreneurship & innovation guidance; paid internships build pathways to professional careers.


Design




Pass math and English proctored exam for admission



Take online courses, enroll in paid internship

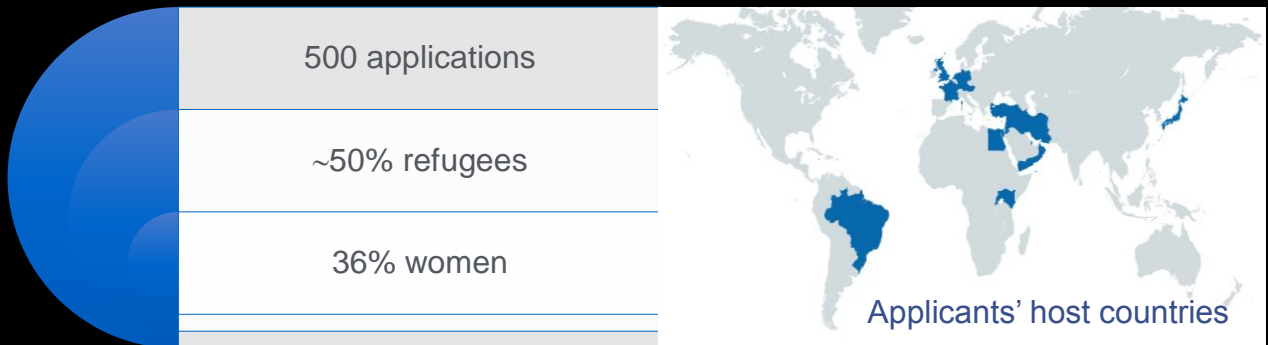


Pass a proctored exam for each course



Earn a ReACT certificate and credentials for on campus Master

Recruitment: 2 week campaign



Applications from 20 countries
16 different nationalities

ReACT's 1st Class



18 students

- 9 refugees
- 9 Jordanians
- 9 women

18-39
years old

35% report
financially
supporting
family

Living in
Syria
Lebanon
Palestine
Jordan

Engineering
Computing
Economics
Medicine



Professional Internships



“Translate hard science and engineering talent and training into thriving careers”

Direct ecosystem engagement

Paid, local, and networked



ReACT *in Action*



100%
passing ReACT students



57%
passing edX certificate students

Overall grades in 6.00.1x



ReACT
students



Certified edX
students

**100% paired
with paid
internships
where they live
(Syria, Jordan,
Lebanon)**



43

MIT News

ON CAMPUS AND AROUND THE WORLD



ReACT MicroMasters programs

*MITx MicroMasters program in
Data, Economics, and Development Policy (DEDP)*



MITx MicroMasters

Empowering refugees worldwide by providing tools for social change

New collaboration joins together MITx MicroMasters, Abdul Latif Jameel Poverty Action Lab, and MIT Refugee Action Hub.

44





ACS
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Jeff Wilkesman

Professor of Chemistry, Hochschule Mannheim
 & Universidad de Carabobo



My Topics For Today



Free to Think 2017 DETERIORATING CONDITIONS
IN VENEZUELA
Report of the Scholars at Risk Academic Freedom Monitoring Project



- Current situation that places faculty members under risk
- How to apply for a Philipp Schwartz Initiative Fellowship
- Rebuilding your professional life in a foreign country

<http://prensa.ula.ve/2017/09/26/scholars-risk-y-coalici%C3%B3n-de-centros-de-derechos-humanos-universitarios-evidenciaron>

47



Incendiary Venezuelan Protest: World Press Photo Award 2018



<http://www.dw.com/en/incendiary-venezuelan-protest-picture-wins-2018-world-press-photo-award/a-43359787>

49

Empty Shelves And High prices: The Daily Bread Of Venezuelans



17/MAR/2018

<https://www.el-carabeno.com/anaqueles-vacios-y-precios-altos-la-cotidianidad-del-venezolano>

50

Military Enters University of Carabobo



5/APR/2017

<http://www.elimpulso.com/featured/fotos-gnb-ingresa-la-universidad-carabobo-reprime-estudiantes>

51



THREATS TO ACADEMIC FREEDOM IN VENEZUELA



Police and Military Repression

In a non-democratic context and facing an humanitarian crisis, university professors and students in Venezuela have involved themselves in social protests, and as a consequence they have been murdered, illegally detained and/or subjected to military justice. Meanwhile governmental or paramilitary repressive forces have illegally burst into university campuses. In 2017, 23 university students died in off-campus protests, shot by governmental repressive forces and/or the paramilitary forces called 'colectivos'. 336 students were wrongfully arrested or detained. At least 39 students and professors were detained in 2017 and subjected to military justice.

Protest statistics' in 2017	#
University students died in off-campus protests	23
Students wrongfully arrested or detained	336
Professors and students detained and brought to military justice	39





Rafael Avendaño was a Bolivarian University Student who was expelled on October 2016 when he changed a TV channel in the medical office where he was receiving his practical classes. The Human Rights Observatory of Los Andes University representing Rafael Avendaño appealed the decision and went to court with no results yet.



On February 2017, **Santiago Guevara**, a professor from the Carabobo University, was detained under the charge of treason. He was brought to military justice and jailed 10 months. He lost almost 30 kilos and his health suffered damaged.

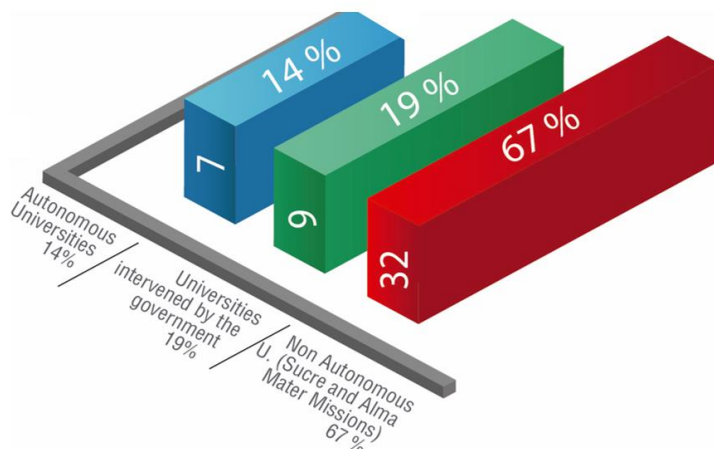
Courtesy: Prof. Dr. Mayda Hacevar, Universidad de Los Andes

52

New Non-Autonomous Institutionalities in Higher Education Policies



Since 2003 a number of 32 non-autonomous universities have been placed under the control of Sucre and Alma Mater Missions, created for indoctrination into the Bolivarian socialist credo. Many of them do not even have an adequate infrastructure, laboratories or libraries.



Courtesy: Prof. Dr. Mayda Hocesvar, Universidad de Los Andes

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THREATENED

Whether from Syria or Iran, Turkey or Ethiopia: in 2016, researchers from many parts of the world had to leave their own countries. The Humboldt Foundation, together with the Federal Foreign Office, has launched the **Philipp Schwartz Initiative which finds places for endangered and persecuted researchers at German universities.**

Humboldt Kosmos: the Alexander von Humboldt Foundation's magazine (No. 106/2016)

www.humboldt-foundation.de/pls/web/docs/F-1419700444/2016_Kosmos_106_en.pdf

How researchers become refugees

54



About the Foundation



The Philipp Schwartz Initiative of the Alexander von Humboldt Foundation supported by the Federal Foreign Office

Description Programme documents FAQ Events Partners

The **Philipp Schwartz Initiative** provides universities and research institutions in Germany with the means to host threatened foreign researchers for a period of 24 months on a fully funded research fellowship. An extension is possible under a co-financing model.

The Initiative is funded by the Federal Foreign Office, with generous additional support from the Alfred Krupp von Bohlen and Halbach Foundation, the Andrew W. Mellon Foundation, the Fritz Thyssen Foundation, the Gerda Henkel Foundation, the Klaus Tschira Foundation, the Robert Bosch Foundation, the Stifterverband, and the Stiftung Mercator.

Applications for the fourth round of the Philipp Schwartz Initiative may be submitted until **15 May 2018**. The selection will take place by **15 September 2018**. Funding has been confirmed for at least 20 grants. Please find the application documents [here](#).

www.humboldt-foundation.de/web/philipp-schwartz-initiative-en.html



Contact

Dr. Barbara Sheldon
Head of Division Strategic Planning
Phone: +49 228 833 109

Frank Albrecht
Programme Director Philipp Schwartz Initiative
Phone: +49 228 833 122

Katja Machacsek
Programme Officer Philipp Schwartz Initiative
Phone: +49 228 833 182

Svetlana Strobel
Programme Officer Philipp Schwartz Initiative
Phone: +49 228 833 409



Who Is Eligible For A Philipp Schwartz Fellowship?



- ✓Threatened researchers from any academic field and any country of origin who have completed their doctorate
- ✓Do not reside or have not been resident outside their own country for more than 3 years
- ✓Possess language skills required to conduct their research
- ✓Possess academic qualifications (e.g. publications)
- ✓Possess potential to be integrated into the (research-related) job market

www.humboldt-foundation.de/web/philipp-schwartz-initiative-en.html

What Are The Elements Of An Application?



- Concept for a sustainable support infrastructure for threatened researchers
- Application for a Philipp Schwartz fellowship including confirmation that the researcher is threatened
- Financing Plan
- **Application is done by host institution**



www.humboldt-foundation.de/web/philipp-schwartz-initiative-en.html

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How Can A Threat To A Researcher Be Confirmed In The Context Of The PSI?



1. By way of a residence status in the context of an asylum-granting procedure that confirms a recognised threat



2. By way of a credible threat assessment issued by a third party, such as:

- www.scholarsatrisk.org

SCHOLARS AT RISK
NETWORK

iie Scholar
Rescue Fund

- www.scholarrescuefund.org

- Council for At-Risk Academics (CARA) <http://www.cara.ngo>

cara

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Some Tips When Choosing Germany

- **Larger German cities have higher life expenses** (Munich, Frankfurt, Hamburg, Berlin)
- **Be prepared to learn German A.S.A.P.**
- **Select carefully the most suitable host institution** (they will make the paper work for your application) **according to your field:**
 - Universities, including universities of applied sciences ("Fachhochschulen")
 - Max Planck Institutes, Helmholtz Institutes, Leibniz Institutes, Fraunhofer Institutes
 - Federal and State Research Institutes
 - Other research-performing institutions

FINDING PROGRAMMES & UNIVERSITIES

<https://www.study-in.de/en/plan-your-studies/find-programme-and-university>

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Life in Germany

- **3,500 EUR/month for up to 2 years**
- **For a 4-member family:**
 - ~33% income for housing (Finding accommodation is sometimes difficult)
 - ~10% for health insurance
- **Public school is available and good**
- **An integration course is usually offered at the beginning of the stay.**

60

Audience Challenge Question

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT



How attractive might the PSI Fellowship be for scholars at risk?

- Not attractive
- Slightly attractive
- As attractive as other programs
- Very attractive
- Undecided



Alexander von Humboldt
Stiftung/Foundation

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My Fellowship Is Due, What Next?



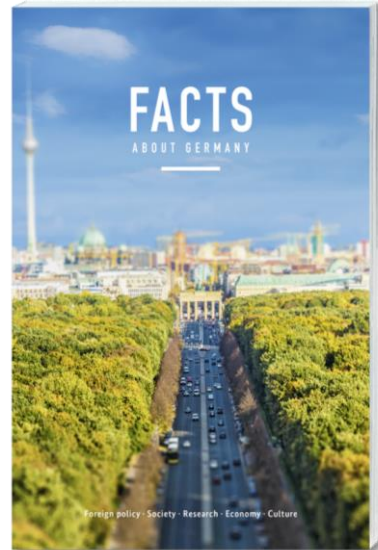
- **Go back?**
Usually not an option
- **Stay?**
Legal status must be verified / renewed
- **Go somewhere else?**
This would usually depend on your international contacts / job chances abroad / visa issues



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Further Reading



<https://www.tatsachen-ueber-deutschland.de/en/facts-about-germany>

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<https://www.hrw.org/es/blog-feed/la-crisis-venezolana>



<http://germanhead.com/blog>

...Dankeschön...
...Thank you...
...Muchas gracias...

Acknowledgments:



hochschule mannheim



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*Refugees, Displaced Scientists, and Chemistry Communities:
Creative Approaches to Support Chemical Practitioners*



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Blue Therapeutics



Jane Aldrich
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Angela Hoffman,
Chemistry Professor, University of Portland
ACS member for 36 years strong!



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