

Challenges faced by ECRs in LAC and how programs from academies of science and young scientists organizations could have a positive impact

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COVID19 pandemic increased the visibility of problems ECRs were already facing

COVID-19: research after the pandemic

As universities worldwide close their doors against the COVID-19 pandemic, researchers are facing uncertainty over their work and employment contracts. Earlycareer researchers and new principal investigators (PIs) are likely to be particularly affected because delayed research programmes put their career prospects on hold. As board members of the Young Academy of Europe, we urge institutions, governments and funders to clarify how they intend to protect this vulnerable group during these difficult times.

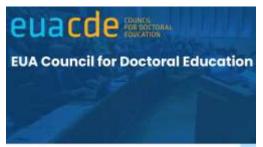
Several funders have announced that they will consider extensions beyond the original project end-date for research that is delayed as a result of the pandemic. but with no extra funding ('no-cost' extensions'). Among them are the Royal Society (go.nature.com/3bjvt9b) and the biomedical funding charity Wellcome (go.nature.com/3aeu18t) in the United Kingdom, the German Research Foundation (go.nature.com/2x34hh1; in German) and the Swedish Research Council (go.nature.com/3dmebpz).

We now urgently need a commitment to 'costed' extensions, which supplement a project's original budget, for PhD students, postdocs and new Pls, This will allow them to secure the delivery of their research programmes once the

Molecular Plant
Comment



How Early-Career Researchers Are Navigating the COVID-19 Pandemic



« Back

Doctoral education and Covid-19: the impact on early-career researchers

INNOVATIONS AND PROVOCATIONS

Preventing a Secondary Epidemic of Lost Early Career Scientists Effects of COVID-19 Pandemic on Women with Children

Michelle I. Cardel¹, Natalie Dean², and Diana Montoya-Williams³

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The novel coronavirus disease (COVID-19) has reached pandemic levels, with more than 9 million infections and more than 475,000 deaths worldwide (1). Millions of people are on "stay-at-home" orders, universities have prohibited in-person classes, and schools and childcare centers

responsibilities and are less likely to have a stay-at-home partner compared with men (3). Together, these issues contribute to well-documented sex disparities in academia (2).

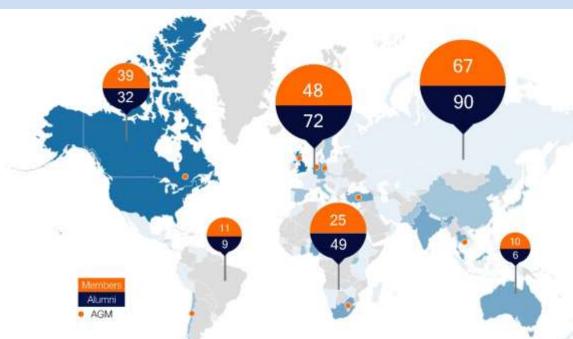
During this pandemic, women are disproportionately bearing the load of additional full-time caregiving and



22 May 2020 | Alexander Hasgall, 26 April 2019

Who we are: The Global Young Academy

- A worldwide network:
- 200 members
- 258 alumni
- 83 countries.
- Selection criteria
 - Research excellence
 - Commitment to service/outreach



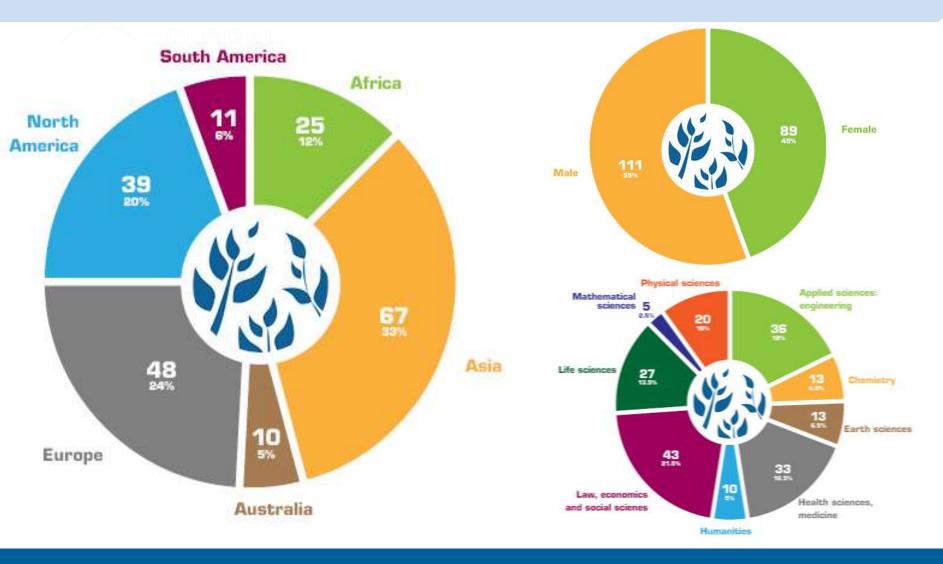
Mitigating losses: How science diplomacy can address the impact of COVID-19 on early career researchers

- Median age ~40y
- 5y membership term

Sandra Lopez-Verges ¹, Bernardo Urbani ², David Fernandez Rivas ³, Sandeep Kaur-Ghumaan ⁴, Anna Coussens ⁵, Felix Moronta-Barrios ⁶, Suraj Bhattarai ⁷, Leila Niamir ⁸, Velia Siciliano ⁹, Andreea Molnar ¹⁰, Amanda Weltman ¹¹, Meghnath Dhimal ¹², Shalini S. Arya ¹³, Karen J. Cloete ¹⁴, Almas Taj Awan ¹⁵, Chandra Shekhar Sharma ¹⁶, Clarissa Rios Rojas ¹⁷, Yoko Shimpuku ¹⁸, John Ganle ¹⁹, Maryam M. Matin ²⁰, Nzweundji Justine Germo ²¹, Abdeslam Badre ²², Paulina Carmona-Mora ^{23 ‡}



Who we are: Membership





GYA Flagship Projects

Projects with a direct impact on early career researchers

- Global State of Young Scientists (GloSYS)

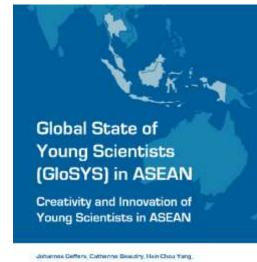
 empirical research examining access to support mechanisms, mentoring, and funding as well as scientific productivity, mobility, and gender inequities within the higher education/research environment
- Science Leadership Programmes (SLPs)
 = capacity building, mentoring and leadership training for early career scientists and scholars
- But also, support National Young Academies



Global State of Young Scientists (GloSYS)

- Project examining the state of early career researchers across the globe
- Precursor study in 2014
- First Regional GloSYS study (GloSYS ASEAN) in 2017
- Finishing largest GloSYS study to date GloSYS Africa (14 countries)
- Issues of interest:
 - Mentoring and support structures
 - Working conditions
 - Infrastructure/funding access
 - Gender
 - Mobility

GIoSYS LAC: Began in 2019: Review, Interviews, Survey. Need your participation!!!



Johannos Geffans, Cathanna Bassalry, Hain Chou Yang, Futus Huang, Oralianska Phannaikas, Martin Daminik, Yin Chan Lin, Merichou Huang, Shoji Konsa, Koren Lorimor, Wibcol Pypasattamamatha, Patchatas; Seengathantz, Hashawatt Sakhi, Brendon Tagg & Abminanyu Vennakumanawan



Major goal of the GloSYS studies: use the data collected to develop evidence-based policy recommendations that support young scientists



28 May 2018

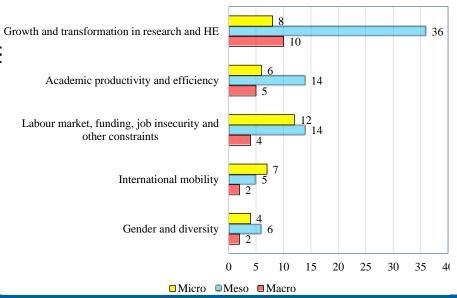
Global State of Young Scientists (GloSYS) LAC

- Review of current litterature
- Opinion piece on ECRs in LAC
- Qualitative data: Design and realization of interview of ECRs in 6 countries: Panama, Cuba, Brasil, Argentina, Colombia, Guatemala
- Quantitative data: Survey of ECRs in the same 6 countries
- If good acceptance, good participation and enough funds, more countries should be incorporated in the study

https://globalyoungacademy.net/wp-content/uploads/2021/03/GloSYS-LAC-Working-Paper-24.08.20.pdf

Reviewing research on researchers: Our knowledge of early-career researchers in Latin America and the Caribbean

Alejandro Miranda-Nieto, Lynn McAlpine, Franziska F. N. Schreiber and Matt Keane





28 May 2018

Issues of ECRs and young scientists in LAC



- Issues Early Career Researchers (ECRs) face in Latin America and the Caribbean
- How can ECRs organizations can have a key role in ways forward.
- How can science diplomacy help with solutions for ECRs-Lac challenges?
- Why is this important?



Issues of ECRs and young scientists in LAC

Different mobility groups = different issues:

- 1. Training in home country
- 2. Training abroad and returned
- 3. Diaspora
- Examples of ECRs organizations from these group that made contributions to policy to improve conditions.
- Harmonized pan-regional strategies can help strengthening LAC research systems

What is needed?

Understanding in depth the **challenges ECRs-LAC** face

Support for repatriation/reinsertion Connection with the diaspora (harness diaspora location)

More internationalization and visibility for ECRs-LAC Increase career opportunities



Image: David Fernandez-Rivas, GYA member

Intraregional mobility
South → North mobility

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Challenges/questions	Actors*	Ways forward/recommendations
Current circumstances faced per professional mobility groups	Governments, scientific societies, and ECR organizations	Studies to understand the current circumstances of ECRs-LAC and strategic plan to equal opportunity for mobility
Access and availability of higher education opportunities	Governments, scientific societies, and ECR organizations	Increase national graduate programs and create new regional graduate programs and fellowships
Repatriation/reinsertion	Governments, scientific societies, and industry or start-up incubators/stimuli	Programs that consider not only funding but also infrastructure and institutional support
Connection with the diaspora	Governments, research institutions, scientific societies, industry or start-up incubators, diaspora organizations, and ECR organizations	Science diplomacy programs to increase collaborations and exchanges taking advantage of strengths of the science from the new country of the diaspora. Agreements and funding for partnerships. Facilitate access to research facilities
Assessing the quality of ECRs-LAC research	Governments, scientific societies, and ECR organizations	Determine what the quality of research is and its scientific or societal impacts and create better research assessment to generate a more holistic view of research performance that benefits all research fields
Impact and internationalization of ECRs-LAC research	Governments, scientific societies, research institutions, ECR organizations, and international organizations	Design specific strategies for the region on open access of research (for LAC researchers to have access to international production and for LAC publications to be read globally) publication cost, international collaboration in a win-win design (no "colonial science")
Quantification of the public policy of research in the region	ONU, CEPAL, research institutions, and Ministries of Science or relevant divisions	Assess current policies and their actual impact/value in the research systems through a science policy lens to modify existing research-related policies or create new ones accordingly

Examples of ECRs and diaspora organizations and networks: Global Young Academy (international ECR organization), TYAN-TWAS (international ECR network from an international scientific academy), Redes Chilenas-Chile (independent ECR network including diaspora), RAICES-Argentina (governmental agency program for diaspora), RedGlobal MX-Mexico (independent diaspora network established with governmental support).

Science Leadership Programmes

- Builds on GloSYS results
 - Applied leadership skills
 - Mentoring
 - Establishing regional networks of academic leaders
- Science Leadership Workshop for new GYA members since 2018
- African Science Leadership Programme (ASLP)
- ASEAN SLP



Begin in 2021:

Science Leadership
 Programmes in Latin
 America and the APEC region



GYA and the NYAs and similar bodies





GYA and the NYAs and similar bodies

Advice, technology and tools

Work





Science leadership training was organized for early-career researchers by the Global Young Academy in 2019.

SIX REASONS TO LAUNCH A YOUNG ACADEMY

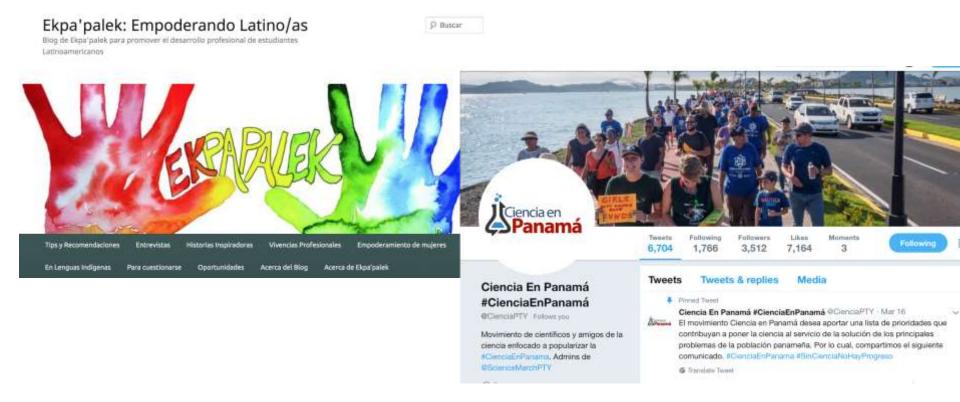
The founders of Hungary's Young Academy describe how and why they set it up in 2019. **By Erika Bálint and seven co-authors.**

First National Young Academy (NYAs) 21 years ago in Germany!



GYA members think Globally, but ACT GLOBALLY, REGIONALLY and LOCALLY

GYA members are part of different associations and NYAs:
 ALWAYS MOTIVATING and EMPOWERING their colleagues





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Programs from US supporting education and ECRs in LATAM

Funding Opportunities for Graduate School & Research



OAS ROWE Fund



Fulbright Graduate Scholarships



University Funded Fellowships





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Programs from US supporting education and ECRs in LATAM

Example of (free) Resources Available via EducationUSA













Prepare for Departure









@educationusapty





80808 ------



Programs from US supporting education and ECRs in LATAM







Women in STEM Outreach & Mentorship





Thank you!





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Cooperation

Engagement with other international organizations







