

BEIS 2026

# IEEE NPSS YP – Get Together Session

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**Andrea Gonzalez-Montoro, PhD**

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Barranquilla, Colombia · June 2026



**IEEE NPSS**  
YOUNG PROFESSIONALS



## Young Professionals: Connect. Grow. Lead.

The IEEE Nuclear and Plasma Sciences Society (NPSS) **Young Professionals (YP) program** supports early-career engineers and scientists transitioning from academia to industry or advanced research. We provide opportunities to **build your network, develop your career, and actively contribute to the NPSS community.**

*Andrea Gonzalez-Montoro, PhD*  
[andrea.gm@i3m.upv.es](mailto:andrea.gm@i3m.upv.es)  
*IEEE-NPSS YP Committee Chair*

## Mission & Vision

### ▼ Connect. Grow. Lead

We are a dynamic, **international network of IEEE** members who have graduated with their first professional degree within the last 15 years.

- Whether you are navigating the **final stages of your PhD or establishing yourself in industry**, our program is designed to bridge the gap between your academic foundation and a professional career.

**Our mission**, we are dedicated to your growth and integration into the global scientific community.

- Support the transition from student to professional excellence.
- Foster collaboration between academia and industry to drive innovation.
- Empower young professionals within NPSS through leadership and visibility.
- Build a global, inclusive, and active community of peers and experts.



**CONNECT • GROW • LEAD**

## Get in Touch

### ▼ Volunteer today / Get involved

#### Why Join the YP Community?

Being an IEEE member at the start of your scientific journey makes a tangible difference:

- Expanded Networking
- Exclusive Conference Events
- Mentorship Opportunities
- Career Insights

### ▼ Ready to Volunteer?

**Do you want to know more about us?  
Please, visit our webpage and explore by yourself**



  
**IEEE NPSS**  
YOUNG PROFESSIONALS

**JOIN THE IEEE NPSS  
YP COMMUNITY**

**VOLUNTEER TODAY**

-  **BOOST YOUR CAREER**
-  **EXPAND YOUR NETWORK**
-  **GET MENTORED**
-  **SHAPE THE FUTURE**

Connect with us:  
[iee-npss.org/yp](http://iee-npss.org/yp)





Register Now

## New Committee – New Leadership

<b>Chair</b>	<b>Andrea Gonzalez-Montoro</b>
<b>1 Member</b>	Martin Grossmann
<b>2 Member</b>	Trang Hoang
<b>3 Member</b>	Audrey Corbeil



**Advisor –  
Previous Chair**

**Srilalan  
Krishnamoorthy  
(Advice)**



**Year 2026**

## New Committee Members

### Vice-Chair (do not participate in AdCom meetings)

**1 David Breitenmoser - Postdoctoral Fellow**  
University of Michigan, USA



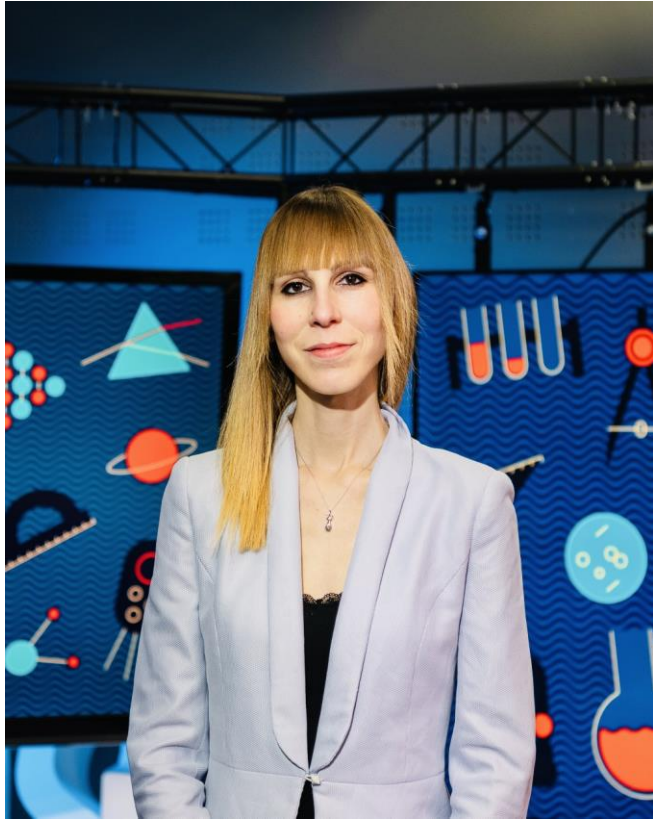
**2 Tzu-Hsiang Lin - Postdoctoral researcher**  
National Tsing Hua University (NTHU), Taiwan  
Incoming postdoctoral researcher at Ohio University



### Functional Leads (they do not participate in AdCom meetings, only support)

**1 Luca Vialetto <vialetto@ucla.edu>**  
Incoming Assistant Professor @ UCLA





**Dr. Andrea Gonzalez-Montoro**  
“Introduction to the IEEE NPSS YP”  
“Career insights”



**Dr. Martin Grossman**  
“Inspiring examples”



**Dr. Trang Hoang**  
“Beyond the Chatbox”  
“Mapping the AI Ecosystem for Modern Academics”

**Andrea Gonzalez-Montoro**, PhD in Physics  
Born in Valencia, Spain, on December 13<sup>th</sup> 1992





**VNIVERSITAT**  
**DE VALÈNCIA**

Degree in Physics  
**2010-2014**


Master in Medical Physics  
**2014-2015**

**2021 Young Scientific Female Talent.**  
aRac y *MasterCard España*

**UNIVERSITAT**  
**POLITÈCNICA**  
**DE VALÈNCIA**

Instituto de Instrumentación  
para Imagen Molecular



**CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS**

PhD in Physics  
**2015-2018**




Postdoctoral Fellow at  
Stanford University **2018-2023**



Instituto de Instrumentación  
para Imagen Molecular

**2023-2026**  
i3M-CSIC-UPV  
Ramón y Cajal, Postdoc



**GSI**  
Darmstadt, Germany  
*1st international  
experience*




**TECHNISCHE**  
**UNIVERSITÄT**  
**MÜNCHEN**

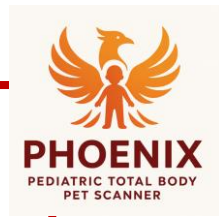
**UNIVERSITY of**  
**WASHINGTON**

**Qualification: Cum Laude**  
December 2018



**ERC Stg Grant (1.5 M€)**  
December **2024 – 2029**

**PHOENIX**



**Permanent position at i3M**  
January 2026 – On going

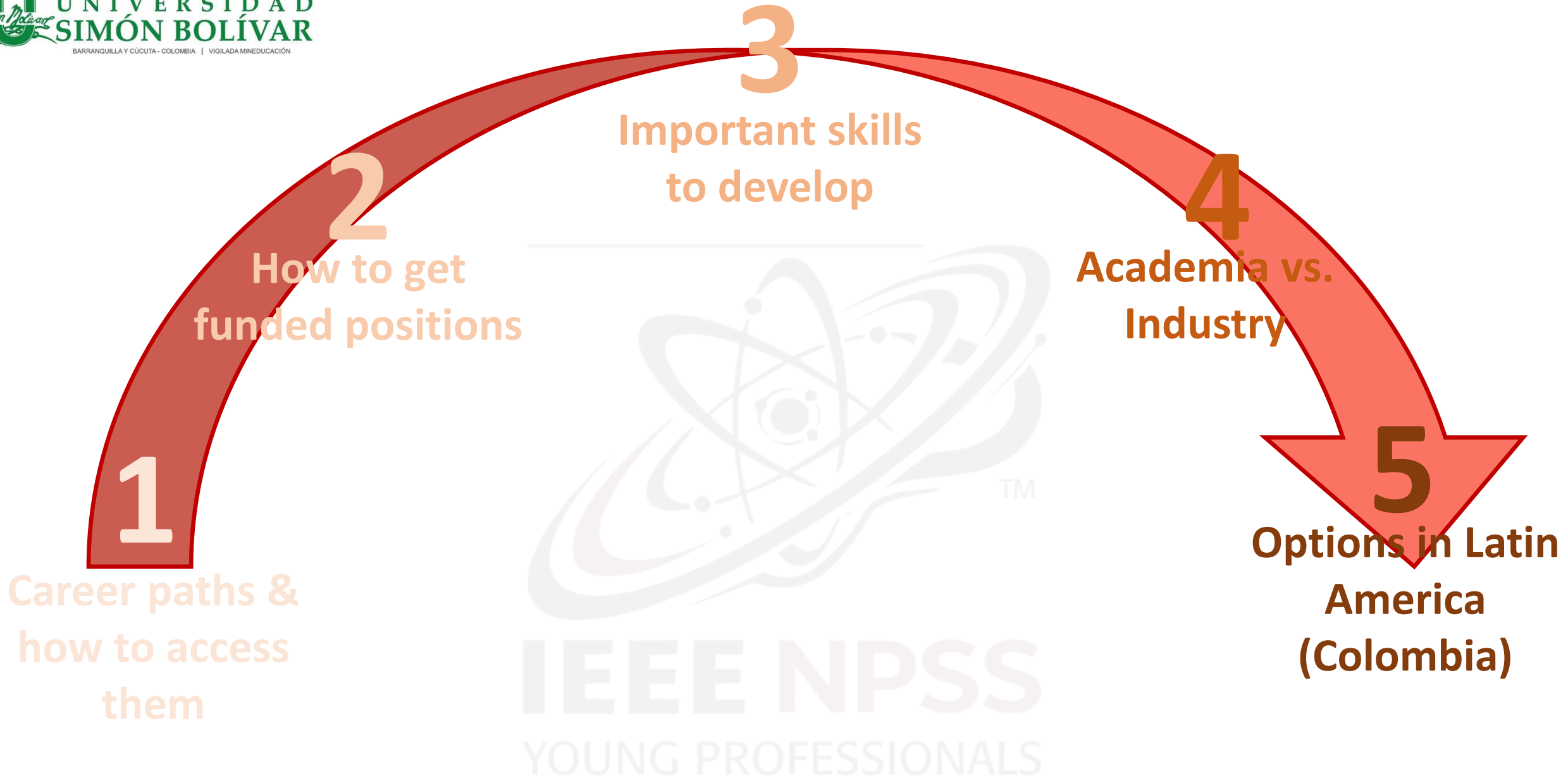
**IEEE YP Committee**  
**Chair (NMISC)**

IEEE NPSS YOUNG PROFESSIONALS & UNIV. SIMÓN BOLÍVAR

## Navigating Your Career

A Roadmap for Students and Young Professionals in Nuclear and Plasma Sciences.

**IEEE NPSS**  
YOUNG PROFESSIONALS

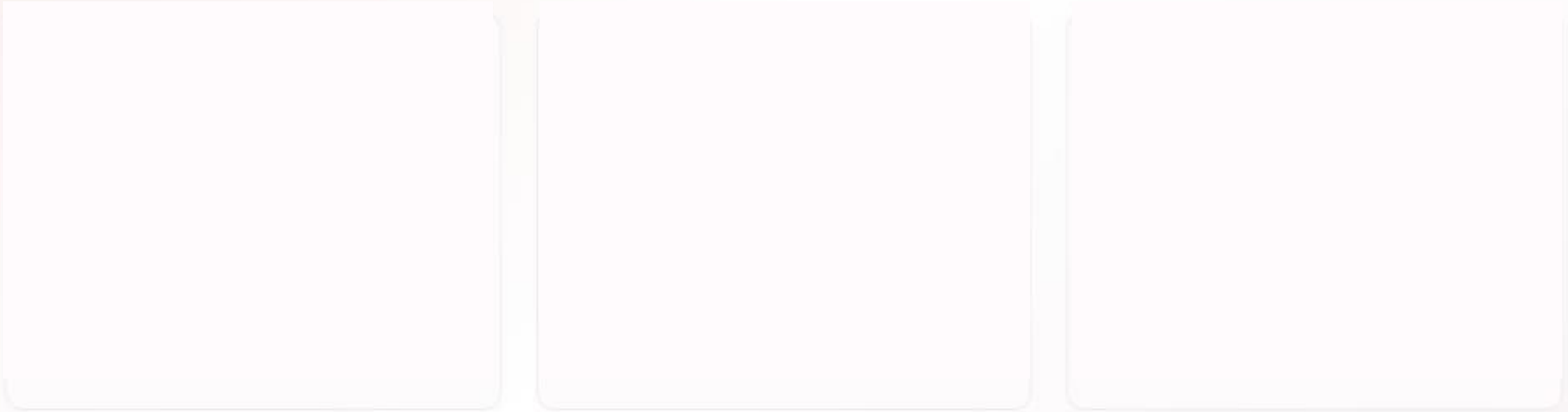


**1** Career paths & how to access them

## 1. Career Paths & Access

## 2. Funding Mechanisms

**2** How to get funded positions



## 2. How to Get Funded

# 100%

Fully Funded Pathways

## 3. Key Skills to Develop

**3** Important skills to develop



## 3b. Technical Excellence



## 4 Academia vs. Industry

### 4. Academia vs. Industry

Strategic Metric

Academia & Public Research

Private Industry & Corporate

Academia?

Industry?

## 5. Options in Colombia

## 5 Options in Latin America (Colombia)

### Maximizing Regional Value

The Latin American technology landscape is expanding rapidly, offering unique advantages for early-career innovators.

- ✓ **Regional Tech Hubs:** Leverage growing technical ecosystems in Barranquilla, Bogotá, and Medellín.
- ✓ **Collaborative Frameworks:** Utilize university-industry partnerships (such as Universidad Simón Bolívar initiatives).
- ✓ **Global Connectivity:** Access international remote research while remaining physically based in Colombia.



## Actionable Tips for Success



### Join Communities & Committees Early

Do not wait until graduation. Join the IEEE NPSS technical committees as a student member to access the "hidden" job market and make your name recognized by senior leaders globally.



### Build a Hybrid Portfolio

Maintain a visible professional footprint. Showcase your research code on GitHub, document your lab setups, and highlight your soft skills through science outreach roles.



### Establish Multi-Tier Mentorship

Look for peer mentors (experienced Young Professionals) for immediate workflow advice, alongside senior mentors (PIs or industrial managers) for long-term guidance.



### Embrace Persistent Iteration

Treat rejected grant proposals or job applications as research data. Actively request constructive feedback, refine your narrative, and apply again with persistence.

# Questions?

*Open for Discussion*

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