



**INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS**  
**UNION GEODESIQUE ET GEOPHYSIQUE INTERNATIONALE**

## **IUGG Early Career Scientist Awardees 2023**

**(7 November 2022)**

Ten scientists have been awarded the IUGG Early Career Scientist Awards 2023 for their outstanding research in Earth and space sciences and for their international research cooperation:

**Mohd Farooq Azam** (Glaciology/Hydrology, Indian Institute of Technology – Indore, India)  
*for his efforts to raise Indian glaciology to international levels, for his boundless interest in Himalayan glaciology leading to reference review articles and long-term glacier monitoring.*

**Jana H. Börner** (Geomagnetism, Freiberg University of Mining and Technology, Germany)  
*for her contributions to electromagnetic geophysics and laboratory-based petrophysics for understanding complex environments and reactive systems.*

**Jayashree Bulusu** (Geomagnetism, Indian Institute of Geomagnetism, India)  
*for her path-breaking contributions to understanding low-latitude phenomena in the magnetosphere.*

**Johan Gaume** (Glaciology, Swiss Federal Institute of Technology, Switzerland)  
*for his seminal work on snow avalanche modeling from the initial crack in the snowpack to the full slope release and for interdisciplinary and innovative studies of geophysical mass flows.*

**Jose Társilo Girona Hernandez** (Volcanology, University of Alaska Fairbanks, USA)  
*for his pioneering and innovative approaches for studying the degassing and eruptive behavior of volcanoes by combining remote sensing, numerical modeling and machine learning.*

**Natalya Gomez** (Glaciology/Ocean Sciences, McGill University, Canada)  
*for her seminal contributions to our understanding of the connections between the cryosphere and sea level change, at the border of geophysical and climate sciences.*

**Patrick Hupe** (Atmospheric Sciences/Seismology, Federal Institute for Geosciences and Natural Resources, Germany) *for his transdisciplinary work which bridges meteorology, acoustics, and seismology, laying the foundation for future research in his field.*

**Christina Karamperidou** (Atmospheric Sciences, University of Hawaii, USA)  
*for her significant contributions to understanding El Niño spatiotemporal diversity and associated impacts, from paleoclimate to modern times through multidisciplinary international collaborations.*

**Xingxing Li** (Geodesy, Wuhan University, China)  
*for his innovative contributions in improving GNSS precise positioning and orbit determination, significantly extending the high-precision GNSS applications in geosciences.*

**Norimitsu Nakata** (Seismology, Lawrence Berkeley National Laboratory and Massachusetts Institute of Technology, USA) *for his innovative research using seismic ambient noise by pioneering a high-resolution body-wave tomography and finding time-lapse changes of subsurface elastic parameters.*

The IUGG Early Career Scientist Awards 2023 will be presented during the Award Ceremony of the [IUGG General Assembly 2023](#) in Berlin, Germany.

## **International Jury**

The [Early Career Scientist Award Committee \(2023\)](#) was chaired by Katrin Schröder (Italy; IAPSO). The Members of the Committee were Keith Alverson (Canada; IAMAS), Marie Dumont (France; IACS), Julia Eychenne (France; IAVCEI), Michelle Grobbelaar (South Africa; IASPEI), Paola Passalacqua (USA; IAHS), Prasanta Patro (India; IAGA), Peiliang Xu (Japan/China; IAG), and Thorsten Wagener (Germany; IUGG).