

LED Society

STEERING COMMITTEE ELECTION

Candidate application form

Title: Postdoctoral researcher

Name: Aditi Krishna

Surname: Dave

Affiliation: Babeş-Bolyai University, Cluj-Napoca, Romania

e-mail: aditikrishna.dave@gmail.com ; aditi.dave@ubbcluj.ro



Select the position you are applying for:

President

Young researcher (PhD degree awarded on [Click or tap to enter a date.](#))

Ordinary member

Biography:

I'm a Postdoctoral researcher in the European Research Council (ERC) project – PROGRESS at Babes-Bolyai University, Cluj-Napoca, Romania. My current research is focused on understanding the behaviour of defect centres in quartz using trapped charge techniques of luminescence and electron spin resonance (ESR) in rocks and sediments to better understand its application as a proxy for provenance.

I did my B.Sc and M.Sc in Chemistry from the University of Delhi, India (2009 -2014). Following which I pursued an M.Sc. in Archaeological Sciences as a Felix Scholar at the University of Oxford (2014-15). It was here that I developed an interested in luminescence and did my masters project in luminescence dating of burnt flints and sediments at a palaeolithic site in western Italy. After my Masters, I was a Visiting researcher (2015-16) at the Physical Research Laboratory (PRL) India, where I worked on constraining the hydrological regime of palaeo-river channels in northwest India using luminescence dating and studied its implications on settlements of the ancient Harappan civilisation. Post my work at PRL, I moved to Germany and did my PhD in Geosciences at the Max Planck Institute for Chemistry, Mainz (2021). My PhD

Aditi Dave

aimed at understanding Quaternary aeolian landscape - climate interactions in the piedmonts of Central Asia using luminescence and electron spin resonance techniques; wherein I utilised these techniques not only as classical dating tools, but also developed and applied these methods for determining provenance. After my PhD, I was a Postdoctoral fellow in the Department of Geosciences at University of Tübingen, Germany (2021-2022), and subsequently moved to Romania in Aug 2022, where I'm currently based.

Motivation: *(Please describe your vision for the LED Society, the contribution you would like to make, etc.)*

The past two decades have seen an instrumental growth in development of dating methodologies as well as an exponential rise in diverse applications of trapped charge techniques, that have the potential to greatly revolutionise the field of archaeo- /geosciences. These transformational years in the LED community demand an International Society that ensures accessibility, engagement and collaboration between laboratories across the world. I believe for a 'Society' to be impactful, it requires active participation and involvement from the community. I envision the LED Society can serve as that platform by establishing dedicated working groups within the society that allow researchers from across the world to actively address, engage and collaborate (as well as share knowledge) on topical issues within the LED framework. As a Young Researcher in the Steering Committee of the LED Society, I foresee myself contributing to this endeavour and ensuring that this platform especially encourages active participation and engagement from early career researchers from across the world.