INTERNATIONAL VIRTUAL OBSERVATORY ALLIANCE

Education Interest Group

Opening Session

Shanshan Li & Priya Hasan

Perth · November 2026

Roadmap & Progress

ROADMAP IN ACTION

Our Edu IG roadmap, mapped to the activities we share today.

Enhance Collaboration

In progress

Partner with IAU offices (OAD, OAE, OAO) and broaden reach across countries and regions through shared trainings and meetings.

✓ AI-Empowered Astronomy meeting (China-VO, Russian VO) · BRICS Data Analytics & AI Training (2025 & 2026) · ISYA 2026, Vietnam (5 VO sessions) · AI Training with Ethiopia (Oct – Nov 2026)

Develop Educational Resources

In progress

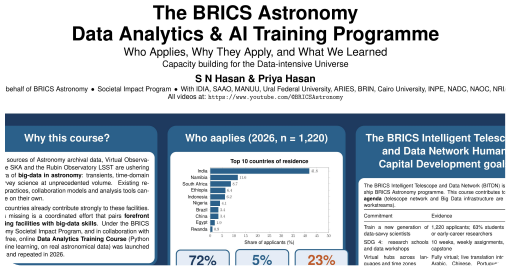
Create curriculum outlines and content — online videos, materials, and handbooks for different education stages.

✓ Open-access book "Data Analysis for Astronomers — With Virtual Astronomy Tools and Python" (Hasan & Hasan, 2026) · BRICS 10-week online course with GitHub, Discord & YouTube.

TAKEAWAY

Both roadmap priorities are already in motion — the trainings, collaborations, and open publication we share today are the proof.

Training Activities

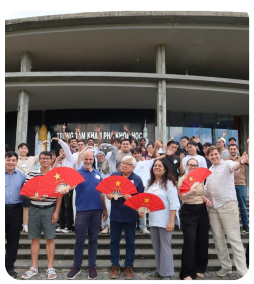


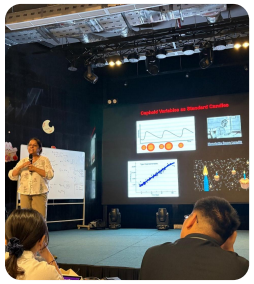
BRICS Data Analytics & AI Training

Held 2025 & 2026

Free, online Python → explainable-AI course on real data. 900+ → 1,220 applicants; recordings on YouTube.

Instructors: Priya Hasan · Wang Feng (Guangzhou Univ.) · Peng Jia (Taiyuan Univ. of Tech.)





ISYA 2026 (Vietnam)

Priya Hasan — 5 VO sessions

Virtual Observatory training for the next generation of astronomers, at the IAU International School for Young Astronomers.

AI Training: Ethiopia

14 Oct – 4 Nov 2026

AI Training: Ethiopia

Running this month

A live regional AI training initiative.

Instructors: Priya Hasan · S N Hasan · Daniel Egbo

Collaboration



Group photo: The 2nd AI-Empowered Astronomy for Open Science (Delingha).

The 2nd AI-Empowered Astronomy for Open Science brought together the presenters and colleagues from several Virtual Observatory communities.

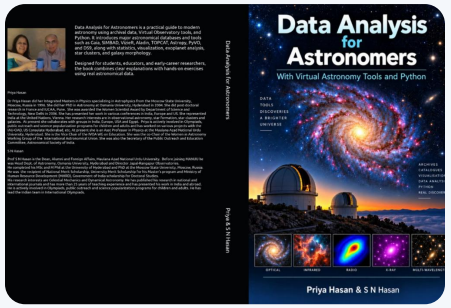
Present at the discussion

Priya Hasan	Delivered a presentation
Chenzhou Cui (China-VO)	Attended
Shanshan Li (China-VO)	Attended
Oleg Malkov (Russian VO)	Delivered a presentation

These conversations shaped our shared idea for the IVOA Education Interest Group.

Community & Resources

Beyond the live programmes, we are building open, reusable resources the whole community can use.



OPEN PUBLICATION

Data Analysis for Astronomers — With Virtual Astronomy Tools and Python

By Priya Hasan & S N Hasan — a free, community-authored textbook that underpins our training.

TAKEAWAY

Cross-country, cross-VO astronomy education — designed and delivered by this community, and still expanding.

Looking Ahead



The "Peony Conference" — 10 – 17 April 2027, Heze, Shandong, China.

The Dynamic Universe in the Era of AI and Big Data

人工智能与大数据时代的动态宇宙

10 – 17 Apr 2027 **Heze, China**

Welcome! We warmly invite the astronomy community to join us in Heze, China, for a week of plenaries, parallel sessions, posters and roundtables on AI & big data in the study of the dynamic (transient) Universe.

Website: conf.koushare.com/conf/TDUEABD

We look forward to welcoming you in Heze

AI in Astronomy Education



IAU General Assembly 2027 · Focus Meeting 8 — visual concept.

AI in Astronomy Education and Outreach: Opportunities and Risks

17 – 18 Aug 2027 | Rome, Italy

Welcome! Join us at IAU GA2027 Focus Meeting 8. We invite educators, researchers and science communicators to explore how AI is reshaping astronomy education and outreach — and to help build a responsible, shared way forward.

Website: fm8-ga2027.zemogle.net

We look forward to seeing you in Rome

Thank You

Thank you for joining the IVOA Education Interest Group opening session.

A NOTE

There is no dedicated Edu IG session on this meeting's programme this time. But if you have any suggestions, content you'd like to share, or thoughts about the conferences we've discussed — please feel free to talk to me anytime. I'll be around throughout the meeting.

Stay connected

Mailing list	edu@ivoa.net
Twiki	http://wiki.ivoa.net/twiki/bin/view/IVOA/IvoaEducation
Resources & Tutorials	http://wiki.ivoa.net/twiki/bin/view/IVOA/EduResourcesTutorials