



Education Interest Group Opening session

Shanshan Li & Jeremy McCormick

Goerlitz, Nov 2025

Roadmap 2024B

- **Enhance Collaboration:** Strengthen partnerships with organizations like the IAU (OAD, OAE, OAO, etc.), expand the influence of IVOA within the astronomy community, and broaden reach in more countries and regions through platforms like the BRICS Astronomy Conference.
- **Upgrade Website:** Restructure and update the current website content framework to highlight key areas, and develop dedicated sections for **education, outreach, and media promotion.**
- **Develop Educational Resources:** Create curriculum outlines and content for different groups of people, including online videos, materials, and handbooks for different educational stages.

AI & Virtual Observatory: Transforming Astronomical Discovery

October 15, 2025 | Hybrid Workshop | 11th BAWG @ Brazil

Co-organized with **BRICS Astronomy**, the event was successfully conducted in a hybrid format, attracting over 50 participants from around the world.

It focused on **AI and Virtual Observatory (VO) technologies** to address challenges posed by big data in astronomy.



AI & Virtual Observatory: Transforming Astronomical Discovery

October 15, 2025 | Hybrid Workshop | 11th BAWG @ Brazil

Expert Speakers

- 📍 Prof. Priya Hasan – Maulana Azad National Urdu University, India
- Prof. S N Hasan – Maulana Azad National Urdu University, India
- Dr. Shanshan Li – National Astronomical Observatories, Chinese Academy of Sciences
- Dr. Alessandro Ederoclite – Instituto de Astrofísica de Aragón, Spain

Training Content

- Introduction to Virtual Observatory
- China-VO: Applications and development of AI & VO technologies in China
- Hands-on sessions with Python/TOPCAT, Astropy, and Astroquery
- Data retrieval and preprocessing from LAMOST, SDSS, and Gaia DR3
- Practical applications of AI methods (CNNs, GANs) in astronomy



Thank you!

Mailing lists edu@ivoa.net **and is archived at:** <http://www.ivoa.net/pipermail/edu>

Twiki: <https://wiki.ivoa.net/twiki/bin/view/IVOA/IvoaEducation>

Existing IVOA Education Resources and Tutorials:
<https://wiki.ivoa.net/twiki/bin/view/IVOA/EduResourcesTutorials>

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