

Science Teaching and Outreach



CENTRO DE ASTROFÍSICA DA
UNIVERSIDADE DO PORTO

www.astro.up.pt

Daniel F. M. Folha

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Personnel

Outreach Unit

Filipe A. L. Pires (coordinator)
Ricardo Reis
Pedro D. M. Mondim
Nelma A. Silva (currently on leave)
Paulo Pereira (design and communication consultant)
Some FCUP students

} 2,5 FTE

CAUP Researchers

General participation of CAUP researchers
Daniel F. M. Folha



Contribute to **science teaching and outreach** has been one of CAUP's goals since its inception (1990):

- Astronomy for Schools
- Astronomy for the general public

- Porto Planetarium (since 1998)

Scientific supervision and coordination

Total no. of visitors exceeding 400,000



Astronomy for Schools

- Portable planetarium (inflatable)
 - Reached more than 200,000 children
- Talks and seminars at schools
- Astronomical observations (small telescopes)
- Exhibitions
- Hands-on workshops



Astronomy for the general public

- **Astroteca**
Astronomy multimedia resource center
- **Astronomy @21!**
Seminar series (since 1994)
- **Closer to the Stars**
Astronomical observations (small telescopes)
- **Exhibitions**
- **Hands-on workshops**
- **Astronews**
- **Special events (eg. Venus transit, eclipses,...)**



Porto Planetarium



- **Planetarium sessions**
ALMA: searching for the origins
New worlds
Cosmic visions
Our star: the Sun
Vítor travels to the Moon
Vítor explores the Solar System
- **Hands-on laboratories**
Fingerprints of celestial objects
Distance to the stars
Celestial motions

Challenges and Opportunities

Porto Planetarium

From
scientific supervision and coordination
to
full control of management
and operations

Beyond Astronomy



Challenges and Opportunities

Escolher Astronomia (*Choose Astronomy*)

Project financed by Ciência Viva



CAUP + 3 Secondary Schools

Involving secondary school students in a real research project, where they should use and understand tools, techniques and skills used by professional astronomers: planning and carrying out astronomical observations, data processing and analysis, interpretation, team work and international networking...
... maths and physics.

Challenges and Opportunities

Research in Science Education

Informal teaching and outreach activities.



Support by theoretical
framework



Evaluate and
validate

Synergies with FCUP



Science Teaching and Outreach

Thanks for your attention!

