PUNCH4NFDI — TA 7

Education, Training, Outreach, and Citizen Science



PUNCH4NFDI ErUM-Data-Hub Synergy Meeting 19.06.2024

TA7 People

WP1 Training Experts GAU Goettingen



Arnulf Quadt



Baida Achkar

WP3
Outreach & Schools
Uni Bonn



Sonja Felder



David Ohse



Frank Bertoldi

WP2 Educating Students TU Dortmund



Carsten Burgard



Kevin Kröninger





Michael Kramer



Pranav Limaye



Victoria Tokareva

Task Area 7 focus: Training Experts, Educating Students



WP1 - Training Experts

- Establishing the PUNCH Young Academy PYA with regular training events
- Career development support for the PhD and Postdoc PUNCH staff through PYA one-to-one mentoring service
- New Content and New Concepts in training scientists for 2024: Project Management and Leadership Skills in-person training, coaching program for female punch scientists under development.

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WP2 - Educating Students

- Market 2-part survey of available teaching material and concepts related to data literacy
 - · agreed with DALIA to host the materials database
- Conducting structured phone interviews: Data in Physics Studies White Book (in collaboration with DPG/KFP and NFDI consortia)
- Ramping up of FAIR teaching activities in TU Dortmund: Creation of a new university course and re-invention of existing lab experiment.





Part 2



Task Area 7 focus: Outreach & Schools, Citizen Science

WP3 - Outreach & Schools

- LEGO ALMA Showcasing interactive exhibit at science festivals in Germany, demonstrating radio interferometry
- Tracing the Universe (for MS Wissenschaft) Providing Open Educational Resources related data-intense science via faszination.uni-bonn.de
- Machine Learning Masterclass (co-operation with Netzwerk Teilchenwelt)
 Offering workshops for high schools on modern particle data analysis tools
- SciCoDaLiC & Bytes4Science Starting inventory and developing board game
- Teacher Training & Intro2SciComm For teachers & communicating scientists

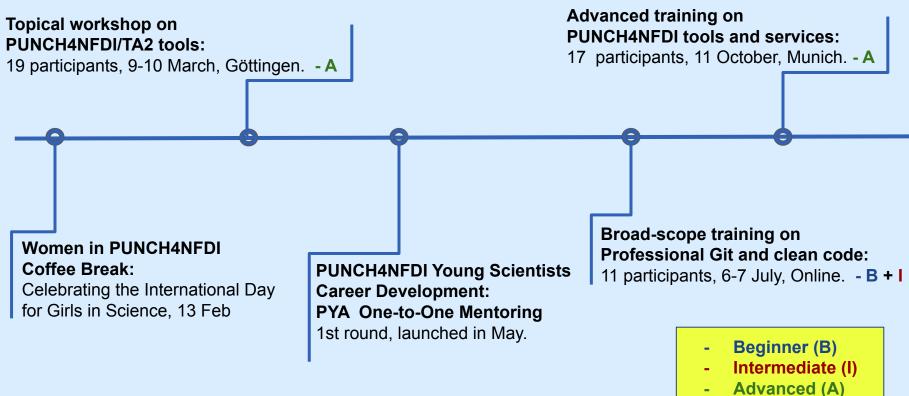
WP4 - Citizen Science

Mapping out potential research application in Citizen Science CitSci: Literature review of terminology, audience and methodologies used in CitSci projects. DPG-2024-talk

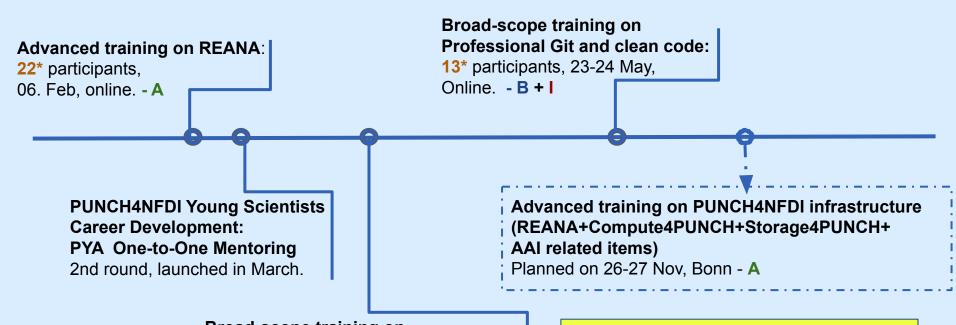
- Preparing data sets and providing soft- and hardware infrastructure:
 Conversion of the Effelsberg old raw data to 'FITS' format for broader and enhanced accessibility (beyond Radio Astronomy Community).
- Use of MeerKAT data set of globular clusters for Citizen Science (together with AEI-Hannover)



TA7 - WP1 : Training Scientists - 2023



TA7 - WP1: Training Scientists - 2024



Broad-scope training on Containers for Use with Docker, Apptainer and Compute4PUNCH:

14* participants, 16 April, Online. - I + A

- Beginner (B)
- Intermediate (I)
- Advanced (A)
 - * Participation is open for none-PUNCH4NFDI applicants

PUNCH4NFDI and ErUM-Data-Hub Synergy

Focus on developing a common platform to host training and teaching materials

- 1. DALIA project is supported by the NFDI efforts. Prototyp, Feedback Phase
- 2. <u>DALIA presentation</u> at the EduTrain NFDI Section Meeting on 16.05.2024
- 3. <u>PUNCH4NFDI</u> is willing to support the development of a platform to host the teaching and training material in RDM. Should not be a search engine!
- 4. A plan to include material produced /collected by PUNCH, <u>FAIRmat</u>, <u>DAPHNE4NFDI</u>,...
- 5. Focus on detailed and rich Metadata, + flexible format.
- 6. Varied hosted material formats: pdf, png, jpg, txt, csv, html, xml, mp4, zip
- 7. Notebooks, tutorials, support for GitHub integration?

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Thank you!

The PUNCH4NFDI Consortium

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