PUNCH4NFDI — TA 7

Education, Training, Outreach, and Citizen Science

TA7 Meeting -Unplugged Week

31.01.2024

TA7 People

Arnulf Quadt   Baida Achkar

Sonja Felder   David Ohse   Frank Bertoldi

Carsten Burgard   Kevin Kröninger

Michael Kramer   Pranav Limaye   Victoria Tokareva

Baida Achkar (U Göttingen) replaced Kevin Kröninger (TU Dortmund) as Task Area 7 co-lead with Frank Bertoldi

TA7 - WP3 : OUTREACH & SCHOOLS

TA7 - WP3: Outreach & Schools

Deliverables and Projects

D-7.3-1: Networking, outreach training, study on effectiveness of outreach, …
D-7.3-2: Access to data and software for education and entertainment.
D-7.3-3: Tutorials and resources for teachers and students, material for masterclasses.
D-7.3-4: Study and test pedagogical approaches to promote data science to children.
D-7.3-5: Pilot extracurricular activities in schools, promote changes in school curricula.
D-7.3-6: Support hackathons, rent a scientist, masterclasses, VO days.

D-7.2-1 & -3 →

Main Projects	D-7.3-1	D-7.3-2	D-7.3-3	D-7.3-4	D-7.3-5	D-7.3-6
Shared Project	Cooperation between WP7.2 and WP7.3					
SciCoDaLiC	Yes	Yes	Yes		Yes	Yes
School Projects						
Tracing the Universe		Yes		Yes	Yes	Yes
ML Masterclass		Yes		Yes	Yes	Yes
Teacher Training			Yes		Yes	
SciComm Projects						
LEGO ALMA		Yes		Yes		
Bytes4Science			Yes	Yes		
Intro2SciComm	Yes		Yes			

TA7 - WP3: Outreach & Schools

SciCoDaLiC
Science Communication & Data Literacy Education

Achievements

Cooperation agreement between WP7.2 & 7.3

Associated with many deliverables

Identified best practice examples

Challenges

Lack of response to survey (launched 2022)

Push persona "school pupil" in DALIA

Where will it be published?

Future Plans

Email enquiries in PUNCH, NFDI and externally

Guideline-based interviews with project leaders

Collection of materials and resources

TA7 - WP3: Outreach & Schools

Tracing the Universe and **LEGO ALMA**

Foto: Martin Magunia/Uni Bonn

Nacht der Technik, 20 Oct 2023, Bonn

~500 participants

Beethoven@AIfA, 12 Jan 2024, Bonn

~20 high school students

Wissenschaftsrallye, 27 Jan 2024, Bonn

~300 participants

Schnupper-Uni, 6 Feb 2024, Bonn

~60 participants (girls only)

Machine Learning Masterclass

Foto: Netzwerk Teilchenwelt

Achievements

Improved by PhD students

Tested and delivered regionally in cooperation with our partner "Netzwerk Teilchenwelt"

Challenges

Authorisation process for pupils

External access to server

Future Plans

Bring into Webbrowser via Jupyter Notebook for school classes to use (scaleable)

Explore avenues at Bonn University

Further ahead:
Teachers as facilitators

Beethoven High School at AlfA

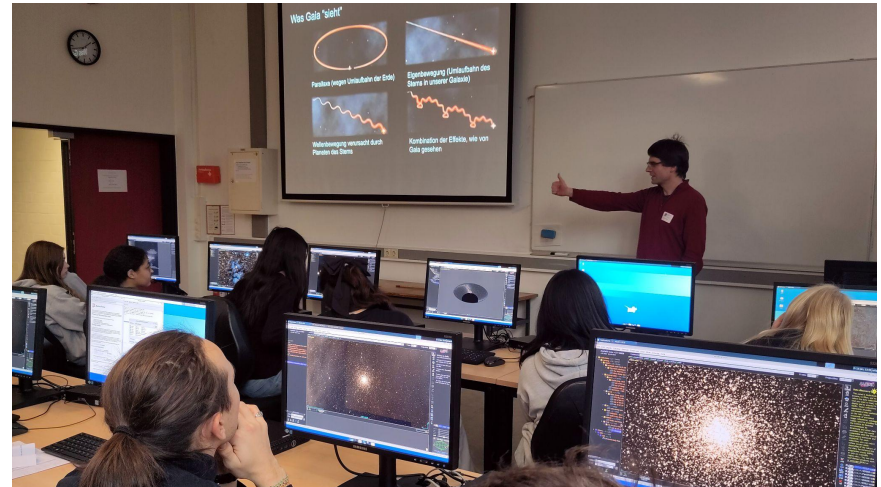**Visit to AlfA, 12th January 2024**

~20 pupils

Theme of the day

Measuring distance in space and starting dialogues with astronomers

Beyond the science

Tour to the telescope, LEGO ALMA, electrical laboratory, AlfA exhibits

Fotos: David Ohse/PUNCH4NFDI

TA7 - WP3: Outreach & Schools

Future Plans

Public PUNCH Website

Provide information for universities, schools & public

Teacher Training

Develop and deliver teacher training(s) in Bonn

Intro2SciComm

Organise a career day on SciComm in Hannover

Bytes4Science

Test prototypes of new board game on research data

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