



The Abdus Salam
International Centre
for Theoretical Physics



CODATA-RDA Research Data Science Summer School and Advanced Workshops

DESCRIPTION:

This activity focuses on building a range of data-related skills that are vital for addressing trans-disciplinary challenges in contemporary research work for participants from all disciplines and/or backgrounds from sciences to humanities. Topics to be covered include principles and practice of research data management including AI assisted RDM, authorship in the 21st century, open and responsible science, machine learning and artificial neural networks followed by selected advanced topics of Urban Data & AI assisted Data Analysis.

MORE INFORMATION:

This is a practical hands-on activity with sessions on techniques and applications for both python and AI based coding and use of local LLMs and AI tools for both Urban data and general AI assisted Data Analysis.

TOPICS:

- Unix environments and AI tools
- AI assisted RDM
- Python and AI Coding tools
- Open and Responsible Research
- Author Carpentry
- Computational Infrastructure
- Recommender systems
- Artificial Neural Networks
- Urban data
- AI assisted Data Analysis

SPEAKERS:

L. M. Bezuidenhout
Leiden University, Netherlands

R. C  be
UNESP, Brazil

M. De Luca
Institute for Research and Innovative Technologies (RIT), Area Science Park, Italy

S. Diggs
Scripps Institution of Oceanography/UCSD, USA

S. Gandhi
ITU, Linz, Austria

E. Okorafor
AI Academy Accenture, USA

R. Quick
Indiana University, USA

H. Shanahan
Royal Holloway, University of London, UK

S. Venkataraman
DANS, Netherlands

Co-Sponsors:

Institute for Research and Innovative Technologies (RIT), Area Science Park, Italy
Masters in Data Management and Curation (MDMC), SISSA, Trieste, Italy



9 - 20 November 2026



Trieste, Italy



**Deadline:
4 September 2026**

DIRECTOR:

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S. Di Gioia, ICTP, Italy
S. D. Hodson, CODATA, France
R. Quick, Indiana University, USA
H. Shanahan, Royal Holloway, University of London, UK

LOCAL ORGANIZER:

C. Onime, ICTP, Italy

FURTHER INFORMATION:

E-mail: smr4320@ictp.it

Web: <https://indico.ictp.it/event/11329/>

Female scientists are encouraged to apply.

GRANTS:

Participants are expected to fund their complete travel costs. A limited number of grants are available to support local attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

