The Abdus Salam
International Centre
for Theoretical Physics

IAEA
International Atomic Energy Agency

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Educational, Scientific
and Cultural Organization

The CODATA-RDA School for Research Data Science

Description:

This activity focuses on building a range of data-related skills that are vital for addressing trans-disciplinary challenges in contemporary research work.

28 July - 8 August 2025

Trieste, Italy

Deadline:
25 May 2025

MORE INFORMATION:

The Summer School which is celebrating its 10th anniversary this year, builds competence in data analysis and security for participants from all disciplines and/or backgrounds from sciences to humanities. Topics to be covered include principles and practice of research data management, authorship in the 21st century, data curation, data security, Open Science, visualization, machine learning and artificial neural networks.

The activity includes practical hands-on sessions on techniques and applications for large-scale data handling, analysis, visualization and modeling on a variety of compute infrastructures including high performance compute platforms/systems.

TOPICS:

- Introduction to the Unix shell
- Version Control with Git
- Research Data Management
- Open and Responsible Research
- Author Carpentry
- Data Wrangling in R/Python
- Data Visualisation
- Information Security
- Machine Learning
- Artificial Neural Networks
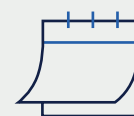- Computational Infrastructures

SPEAKERS:

M. Alfaro-Cordoba
University of California, Santa Cruz, USA
L. M. Bezuidenhout
Leiden University, Netherlands
R. Cóbe
UNESP, Brazil
S. Diggs
Scripps Institution of Oceanography/UCSD, USA
D. Donaldson
Indiana University, USA
S. El Jadid
Queens University, Belfast, UK
S. Gandhi,
ITU, Linz, Austria

A. Nobes
INASP, UK
E. Okorafor
AI Academy Accenture, USA
B. Peterson
Fathom Data, South Africa
R. Quick
Indiana University, USA
H. Shanahan
Royal Holloway, University of London, UK
S. Venkataraman
DANS, Netherlands

Call for Contributed Abstracts:
All applicants are requested to submit an abstract for a poster presentation. Abstract templates are available below for download.

Individuals with a background in IoT/Big-Data Analytics and Compute Infrastructure can apply to one of the Advanced Workshops that run immediately after the school.

DIRECTORS:

M. Alfaro-Cordoba, University of California, Santa Cruz, USA
L. M. Bezuidenhout, Leiden University, Netherlands
S. El Jadid, Queens University, Belfast, UK
S. D. Hodson, CODATA, France
E. Okorafor, AI Academy Accenture, USA
B. Peterson, Fathom Data, South Africa
R. Quick, Indiana University, USA
H. Shanahan, Royal Holloway, University of London, UK
V. Van den Eynden, KU Leuven
S. Venkataraman, DANS, Netherlands

LOCAL ORGANISER:

C. Onime, ICTP, Italy

FURTHER INFORMATION:

E-mail: smr4092@ictp.it

Web: https://indico.ictp.it/event/10857/

Female scientists are encouraged to apply.

GRANTS:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries.
There is no registration fee.

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Data
Schools