



**ICTP  
SAIFR**

International Centre  
for Theoretical Physics  
South American Institute  
for Fundamental Research



CODATA - RDA  
**Data  
Schools**  
SCHOOLS OF RESEARCH  
DATA SCIENCE



# SÃO PAULO CODATA-RDA SCHOOL OF RESEARCH DATA SCIENCE

## May 9 – July 15, 2022

### by videoconference

#### DIRECTORS

- Marcela Alfaro Córdoba** (University of California)
- Louise Bezuidenhout** (Data Archiving and Networked Services (DANS))
- Sara El Jadid** (Queens University, Belfast)
- Bianca Peterson** (HART: Hypertension in Africa Research Team, NWU)
- Robert E Quick** (Indiana University, USA)
- Hugh Shanahan** (Royal Holloway, University of London, UK)
- Shanmugasundaram Venkataraman** (Venkat) (OpenAIRE)

#### LOCAL ORGANIZERS

- Nathan Berkovits** (ICTP-SAIFR/IFT-UNESP, Brazil)
- Raphael Cobe** (NCC, Brazil)
- Sérgio Novaes** (NCC and SPRACE, Brazil)

The ever-accelerating volume and variety of data being generated is having a huge impact on a wide variety of research disciplines, from the sciences to the humanities. The international, collective ability to create, share and analyze vast quantities of data is having a profound, transformative effect. This 'Data Revolution' offers great opportunities for students with modern data skills, both in conducting their research and in entering a jobs market where those skills are in demand.

Contemporary research – particularly when addressing the most significant, transdisciplinary research challenges – cannot

be done effectively without a range of skills relating to data. This includes the principles and practice of Open Science and research data management and curation, the use of a range of data platforms and infrastructures, large scale analysis, statistics, visualization and modeling techniques, software development and annotation and more. We define 'Research Data Science' as the ensemble of these skills.

The School on Research Data Science will focus on growing competence in accessing, analyzing, visualizing, and publishing data. It is open to participants from all disciplines and/or backgrounds from the sciences to humanities. This activity will cover topics on principles and practice of Open Science, research data management and curation, use of a range of research compute infrastructures, large scale analysis, statistics, visualization and modeling techniques, automation and scripting.

There is no registration fee.

**Application deadline:  
April 20, 2022**

**Online registration and more information:  
<https://www.ictp-saifr.org/codata-rda22/>**



unesp



UNIVERSITEIT VAN PRETORIA  
UNIVERSITY OF PRETORIA  
UNIBESITHI YA PRETORIA



#### LOCAL ORGANIZERS

Nathan Berkovits  
(ICTP-SAIFR/IFT-UNESP, Brazil)

Raphael Cobe  
(NCC, Brazil)

Sérgio Novaes  
(NCC and SPRACE, Brazil)

#### ICTP-SAIFR STEERING COMMITTEE

- Atish Dabholkar - ICTP director
- Pasqual Barretti - UNESP rector
- Luiz Eugênio Mello - FAPESP scientific director
- Hugo Aguilaniu - President-Director of Serrapilheira I.
- Luiz Davidovich - President of Brazilian Acad. of Science
- Juan Maldacena - Representing South America

#### ICTP-SAIFR SCIENTIFIC COUNCIL

- Michael Green (chair) - U. of Cambridge
- Rosario Fazio - ICTP representative
- Alexandre Reily Rocha - IFT-UNESP director
- William Bialek - Princeton U.
- Eduardo Fradkin - U. Illinois
- Gabriela Gonzalez - LIGO, Louisiana State U.
- André de Gouvêa - Northwestern U.
- Karen Hallberg - Balseiro Inst., Bariloche
- Luis Lehner - Perimeter Inst., Waterloo
- Gabriel Mindlin - Univ. de Buenos Aires

#### ICTP-SAIFR STAFF

- Nathan Berkovits - Director
- Rogério Rosenfeld - Vice-Director
- Pedro Vieira - Perimeter-SAIFR Coordinator
- Jandira Oliveira - Executive Manager
- Humberto Neto - Executive Secretary
- Líliá Faria - Financial Manager
- Malena Stariolo - Science Journalist
- Tiago Codinhoto - Technical Assistant