**REINALDO A. C. BIANCHI**
FEI, Brazil

**FELIPE LENO DA SILVA**
EP-USP, Brazil

**ANDRÉ C. P. L. F. CARVALHO**
ICMC – USP, Brazil

**JOÃO PAULO PAPA**
FC-Unesp, Brazil

**ANNA HELENA REALI COSTA**
EP-USP, Brazil

**MARCELO FINGER**
IME-USP, Brazil

**ALEXANDRE XAVIER FALCÃO**
IC-UNICAMP, Brazil

December 16-20, 2019

# FIRST SCHOOL ON DATA SCIENCE AND MACHINE LEARNING

The School on Data Science and Machine Learning has the goal of teaching participants about modern machine learning techniques, their strengths and shortcomings, and how to apply them in different contexts. The school is targeted particularly at senior PhD students, working towards the completion of their thesis projects, as well as young postdocs.

The school participants will learn the formalism of machine learning, starting from an introductory level and going through more advanced topics like computer vision, sequential and recursive learning, anomaly and outlier detectors, and generative models. The theoretical lectures will be mixed with a set of hands-on sessions where participants will be able to apply the concepts to solving real-world problems.

There is no registration fee and limited funds are available for travel and local expenses.

**Application deadline:** October 13, 2019

**Online application and more information:**
**www.ictp-saifr.org/DSML2019**

FAPESP · ICTP · unesp · IFT - UNESP · Advanced Institute for Artificial Intelligence

**ORGANIZERS**
**Nathan Berkovits** (ICTP-SAIFR/IFT-UNESP, Brazil)
**Raphael Cobe** (NCC-UNESP/AI2, Brazil)
**Sergio F. Novaes** (UNESP/AI2, Brazil)
**Maria Spiropulu** (Californa I. of Technology, USA)
**Thiago Tomei** (NCC-UNESP/AI2, Brazil)

ICTP-SAIFR STEERING COMMITTEE
Fernando Quevedo (chair) - ICTP director
Sandro Valentini - UNESP rector
Carlos Brito Cruz - FAPESP scientific director
Luiz Davidovich - Brazil Acad. Science president
Juan Maldacena - Representing South America

ICTP-SAIFR SCIENTIFIC COUNCIL
Peter Goddard (chair) - IAS, Princeton
Rosario Fazio - ICTP representative
Marcelo Yamashita - IFT-UNESP director
Marcel Clerc - U. de Chile
André de Gouvêa - Northwestern U.
Eduardo Fradkin - U. Illinois
Gabriela Gonzalez - LIGO, Louisiana State U.
Belita Koiller - UFRJ, Rio de Janeiro
Luis Lehner - Perimeter I., Waterloo
Gabriel Mindlin - U. de Buenos Aires

ICTP-SAIFR STAFF
Nathan Berkovits - Director
Rogerio Rosenfeld - Vice director
Pedro Vieira - Perimeter-SAIFR Coordinator
Jandira Oliveira - Executive manager
Humberto Neto - Executive secretary
Lucas Sanches - Computer systems manager
Lilia Faria - Financial Manager
Lucas David - Outreach Coordinator
Ana Luiza Serio - Outreach Coordinator
Malena Stariolo - Science Journalist
Isabela Pereira - Technical assistant