

# Young Researchers' Workshop on Machine Learning for Materials



**9 - 13 May 2022**  
**An ICTP Virtual Meeting**  
**Trieste, Italy**

Further information:  
<http://indico.ictp.it/event/9786/>  
[smr3701@ictp.it](mailto:smr3701@ictp.it)

The workshop aims at providing the next generation of young researchers with a didactic platform on the latest advancements in methods and applications of AI for material discovery. Moreover, the workshop will bring forth a discussion on the implications of the latest advancements in data-driven methods on the different sub-areas of materials discovery. Topics of discussion include, but are not limited to:

- Energy materials discovery
- High-performance materials discovery
- Drug discovery
- Industrial applications of machine learning and molecular modelling
- Machine learning potentials
- Generative models
- Data-driven characterization
- High-throughput screening
- Physics-based linear and kernel methods
- Advanced neural network methods

## Directors:

S. DE GIRONCOLI, SISSA, Italy  
P. RINKE, Aalto University, Finland  
K. ROSSI, Ecole Polytechnique Fédérale de Lausanne, Switzerland  
M. TODOROVIC, Turku University, Finland  
C. ZENI, SISSA, Italy

## Local Organiser:

S. SCANDOLO, ICTP, Italy

## Speakers:

A. ANELLI, Roche, Switzerland  
L. BANKO, Ruhr-Universität Bochum, Germany  
A. BOCHKAREV, Ruhr-Universität Bochum, Germany  
S. DŽEROSKI, Jozef Stefan Institute, Slovenia  
F. A. FABER, University of Cambridge, UK  
A. GLIELMO, Banca d'Italia, Italy  
F. GRISONI, Eindhoven University of Technology, Netherlands  
B. KOZINSKY, Harvard University, USA  
A. LAIO, SISSA, Italy  
N. LÓPEZ, Institute of Chemical Research of Catalonia, Spain  
J. MARGRAF, Fritz-Haber-Institut der MP, Germany  
F. PELLEGRINI, SISSA, Italy  
M. RUPP, University of Konstanz, Germany  
S. SACCANI, AINDO, Italy  
K. T. SCHÜTT, Technische Universität Berlin, Germany  
M. TODOROVIC, Turku University, Finland  
Z. ULISSI, Carnegie Mellon University, USA  
R. VAN DEN BERG, Microsoft Research Amsterdam, Netherlands  
J. WESTERMAYR, University of Warwick, UK  
R. WINTER, Bayer, Germany

## How to apply:

Online application:  
<http://indico.ictp.it/event/9786/>

## Registration:

There is no registration fee.

Female scientists are encouraged to apply.

## Deadline:

**1 May 2022**

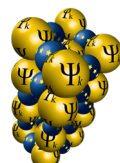


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