Stefano SPIGLER

Resume

BIRTHPLACE	Padova, ITALY
BIRTHDATE	March 16, 1990
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	Cubotron, Rte de la Sorge
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WORK EXPERIENCE

2017–2019

Postdoc at EPFL, Lausanne and CEA, Paris.
Research topic: *Learning dynamics and energy landscape in deep neural networs.*

2017–2018

Teaching "Travaux Pratiques IV" at EPFL.
Course topic: *Statistical physics of learning.*

2014–2017

Ph.D. at LPTMS, Université Paris Sud and Ecole Normale Supérieure, Paris.
Research contract by the École Normale Supérieure.
Research topic: *Avalanches in glassy systems.*

2016

Teaching assistant for an introductory course on *machine learning*
at the Université Pierre et Marie Curie, Paris.

2015–2017

Supervision of students in ORT Strasbourg and Tel Aviv University,
directing research projects on *cold atoms* and *sympathetic cooling.*

2014

Internship at the *Laboratoire de Physique Théorique et
Modèle Statistique* at the Université Paris Sud, Paris.

EDUCATION

2018

Attendance to the **Beg Rohu school 2018**,
subject: *Deep Learning and Statistical Physics.*

2017

Attendance to the **Boulder school 2017**,
subject: *Frustrated and Disordered Systems.*

2017

Attendance to the course **Intelligence économique & stratégique**,
organized by *MINES ParisTech.*

2016

Attendance to the **Beg Rohu school 2016**,
subject: *Concepts and Methods of Statistical Physics.*

2012–2014

M.Sc. in **Physics of Complex Systems**. Joint programme involving:
Politecnico di Torino, SISSA, ICTP; Université Pierre et Marie Curie,
Université Paris Diderot, Université Paris Sud, ENS de Cachan.

Ranked 1st among the whole class.

2009–2012

Italian *Laurea* (**B.Sc.**) in **Physics**, Università degli Studi di Padova, Padua.

2009–2012

Scuola Galileiana di Studi Superiori of Padova, Padua.

*This college is affiliated with the University of Padova; students are
required to pass all the exams each year with grade above 24/30 and
average GPA above 27/30; attendance to extra courses is also required.*

PUBLISHED ARTICLES

2018   M. Baity-Jesi, L. Sagun, M. Geiger, S. Spigler, G.B. Arous,
C. Cammarota, Y. LeCun, M. Wyart, G. Biroli,
Comparing dynamics: deep neural networks versus glassy systems,
ICML, PMLR 80:314-323.

2017   S. Franz, S. Spigler, *Mean-field avalanches in jammed spheres*,
Physical Review E 95(2), 022139.

2016   S. Franz, G. Gradenigo, S. Spigler, *Random-diluted triangular plaquette model:
Study of phase transitions in a kinetically constrained model*,
Physical Review E 93(3), 032601.

TALKS AND PRESENTATIONS

2017   Short talk + poster on the *Distribution of avalanches in disordered systems*,
CECAM meeting on *Advancements in the physics of disordered systems*, Lausanne.

2016   Short talk on *Equilibrium shocks in soft spheres*, Chicago.

HONORS AND AWARDS

2014   Ranked 1st among the whole class in my M.Sc. in Physics of Complex Systems.

2013   Scholarship awarded by the **Université Paris Sud**.

2009–2012   Full merit scholarship awarded by **Scuola Galileiana di Studi Superiori**.

                                                             Ranked 4th among over 600 candidates

2009   National award for achieving the highest grade at the final examination in high school.

2009   National award for the results obtained in the national mathematical olympiad.

SKILLS

LANGUAGES   **Italian** (native language), **English** (full command), **French** (fluent).

INFORMATICS   Good knowledge of **operating systems** (*Ubuntu, Red Hat; Windows*);

                                                   full command of *LaTeX* and *Office* suite;

                                        good knowledge of **several programming languages**:
*C/C++, XML/HTML, CSS, PHP, SQL/databases, Python (Pytorch),
Mathematica (basics), JavaScript (basics), Bash (basics), AWK (basics)*.