

CURRICULUM VITAE

PERSONAL DATA

Name: Tommaso Castellani
Date and place of birth: 24 maggio 1979, Rome
Nationality: Italian
Marital status: Single
Email: tcastellani@gmail.com

LANGUAGES

Italian: native language
English: very good
French: good

DEGREES

2007: Ph.D. in Physics, University of Rome “La Sapienza”.
2002: Degree in Physics, University of Roma “La Sapienza”

RESEARCH

2007: Research on high school textbooks, Università di Roma “La Sapienza”.
2003-2006: Ph.D. student in Physics, Università di Roma “La Sapienza” in the Complex Systems Groups directed by prof. Giorgio Parisi.
2003: Researcher at Istituto Nazionale di Fisica della Materia.

SCIENCE EDUCATION

Projects with schools with formaScienza:

2010: ITIS “Enrico Fermi” di Frascati (Roma), 22 hours.
2009: ITIS “Enrico Fermi” di Frascati (Roma), 22 hours, Liceo Scientifico “B. Croce” di Roma, 12 hours;
2008: Scuola Media “A. Deci” di Orte (VT), 6 hours, Istituto Professionale “Von Neumann” di Roma, 6 hours, Scuola Media “Esopo” di Roma, 16 hours, ITIS “Enrico Fermi” di Frascati (Roma), 30 hours, Scuola Elementare “G. Mazzini” di Roma, 24 hours;

2007: Scuola Media “A. Deci” di Orte (VT), 10 hours, Istituto Professionale “Sibilla Aleramo” di Roma, 12 hours, Scuola Media “Fratelli Bandiera”, Roma, 6 hours.

2006: Liceo Classico “Giulio Cesare” di Roma, 36 hours;

2009-2010: physics teacher at Centro di Formazione Professionale “Nicoletta Campanella” di Corviale, Roma (66 hours).

2009: physics teacher at Liceo Scientifico “Augusto Righi” di Roma (60 hours).

2007: lesson at “La Scienza il Piazza”, Casalecchio di Reno (BO).

2007: lesson at “Un Pozzo di Scienza”, Faenza (RA).

2007: teacher in the master “Energia in Gioco”, Istituto “Rosselli”, Aprilia (LT);

2005: teacher of Computational Physics at Università di Roma “La Sapienza”.

TEACHERS TRAINING

2008-2009: “Fare Scienza”, MCE and Comune di Roma.

2008: SSIS, School for high school teachers, 4,5 hours.

2008: “Alfabeti della mente”, Sarzana (SP), 2 hours.

SCIENCE COMMUNICATION

He is responsible for the following national projects of Italian Ministry for Education, University and Research:

2010: “La scienza degli studenti” with formaScienza, Scienza Under 18 (Milan) and Regione Lazio.

2009: “Caffè Scienza Junior” with formaScienza, Caffè Scienza Firenze and Biblioteche di Roma (Rome public libraries).

2008: “Dentro la scienza” with formaScienza and Cooperativa Microcosmo (Firenze).

2009-2010: Co-organizer of “asSaggi di Scienza” with formaScienza and Biblioteche di Roma (Rome public libraries).

2007-2008-2009: Co-organizer of Festival “Scienza3” with formaScienza and Municipio Roma 3. (www.scienza3.com).

2009: Co-rganizer of “Caffè Matematici” with formaScienza, Department of Mathematics of “Sapienza” University of Rome and INDAM, National Institute of High Mathematics.

2007-2008-2009: Organizer of Rome “caffè scienza” (www.formascienza.org/caffè.asp) with formaScienza.

2006: Collaborator for Fox International Channel.

2006: Collaborator for RAI, Italian National TV (Science programme Geo&Geo).

PHYSICS PUBLICATIONS

T. Castellani, V. Napolano, F. Ricci-Tersenghi e R. Zecchina
Bicolouring random hypergraphs
Journal of Physics A: Mathematical and General **36**, 11037 (2003)

T. Castellani e A. Cavagna
Spin-glass theory for pedestrians
Journal of Statistical Mechanics P05012 (2005)

T. Castellani, F. Krzakala e F. Ricci-Tersenghi
Spin glass models with ferromagnetically biased couplings on the Bethe lattice: analytic solutions and numerical simulations
The European Physics Journal B **47**, 99 (2005)

T. Castellani, B. Capone, I. Giardina e F. Ricci-Tersenghi
Off-equilibrium confined dynamics in a glassy system with level-crossing states
Physical Review B **74**, 144301 (2006)

SCIENCE EDUCATION AND COMMUNICATION PUBLICATIONS

T. Castellani, C. Belmonte, E. Pontecorvo, L. Maggi
Una proposta didattica per l'insegnamento delle scienze
"Naturalmente", n.3, 2008

T. Castellani
Un'esperienza di comunicazione scientifica legata al territorio
in "Atti del VI convegno nazionale di comunicazione della scienza", 2008

T. Castellani, A. Parisi
Science cafes: Science-tasting nights, open debates in the company of scientists, philosophers and gourmets
in "Science: perception and participation", Biblink, Roma, 2009.

T. Castellani
Studenti al caffè
Linx Magazine n. 5, January 2010.

T. Castellani, R. Conserva
Il rituale e la sorpresa
Dossier insegnare 3, 2009.

T. Castellani
Cattiva "maestra"
École 77, 2010.

PHYSICS TALKS

2003: "Solution to spin glass models with ferromagnetically biased couplings on the Bethe lattice", Université de Paris-Sud, Orsay, France.

2005: "p+r spin spherical model: TAP states and out of equilibrium dynamics", al workshop "Statistical Mechanics of Finite Connectivity Systems and Random Graphs" Katholieke Universiteit Leuven, Leuven, Belgium.

PHYSICS SCHOOLS AND CONFERENCES

2006: Les Houches, France.

2005: "Statistical Physics of Glasses, Spin Glasses, Information Processing and Combinatorial Optimization", Les Houches, France.

2005: Workshop "Statistical Mechanics of Finite Connectivity Systems and Random Graphs", Leuven, Belgium.

2004: Workshop "Statistical physics and computational problems: beyond the analogy", Paris, France.

2004: "School and conference on fundamental aspects of complexity", ICTP, Trieste, Italy.

2004: Workshop "Optimization algorithms and quantum disordered systems", Paris, France.

2003: "Statistical Physics of Glasses, Spin Glasses, Information Processing and Combinatorial Optimization", Les Houches, France.

2002: School and conference "Statistical Physics, Probability Theory and Computational Complexity", ICTP, Trieste, Italy.

OTHER CONFERENCES

2008: ESOF (Euroscience Open Forum), Barcelona.

2007: "Ecologia della mente e limiti dello sviluppo", Roma.

2006: "I presupposti della relazione educativa", Roma.

2006: "Una sfida per i divulgatori. Il ruolo della comunicazione e della divulgazione scientifica nel rilancio della ricerca", Roma.

2006: III International congress "Science and Society", Villa Piccolomini, Roma.