Eugenio Valdano

PhD

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personal info

postoctoral researcher
Departament d'Enginyeria Informàtica i Matemàtiques
Universitat Rovira i Virgili
Tarragona, Spain

born: 13th February 1988, Torino, Italy

nationality: Italian

academic career

postoctoral researcher, nov 2016 - current
Departament d'Enginyeria Informàtica i Matemàtiques
Universitat Rovira i Virgili
Tarragona, Spain.

postoctoral researcher, oct 2015 - sept 2016
Pierre Louis Institute of Epidemiology and Public Health
INSERM & Université Pierre et Marie Curie
Paris, France.

education

PhD in Public Health, 2015
Université Pierre et Marie Curie, Paris, France
Supervisor: Dr V Colizza (INSERM, UPMC, ISI Foundation).
Final thesis: Computing the vulnerability of time-evolving networks to infections .
Final defence: Oct 13 2015.

MSc in Theoretical Physics, 2012
University of Torino, Italy
Mark: 110/110 con lode e menzione (cum laude).
Supervisors: Prof. M Caselle (University of Torino), Dr V Colizza.
Final thesis: Dynamic networks and spreading processes.

Diploma, School of Superior Studies, 2012
University of Torino, Italy
Mark: 70/70 con lode (cum laude).
Supervisor: Prof. R Ricci (Dept of Psychology, University of Torino).
Final thesis: Mathematical modeling of anisometries in space perception induced by Unilateral Spatial Neglect.

BSc in Physics, 2010
University of Torino, Italy
Mark: 110/110 con lode (cum laude).
Supervisor: Prof. M Rasetti (ISI Foundation).
Final thesis: A study of algorithms of quantum computation.

Maturità classica (High School), 2008
Liceo Ginnasio C Cavour, Torino, Italy
Mark: 100/100 con lode (cum laude).

additional training

2016 - Generalized Network Structures and Dynamics, **Ohio State U**, Columbus, Ohio, USA.
2014 - ECCS Warm-up: school of complex networks. Lucca, Italy
2014 - Summer Institute of Statistical Modeling of Infectious Diseases.
University of Washington, Seattle, WA, USA.
2014 - Complex Networks Thematic School.
Les Houches School of Physics. Les Houches, France.
2014 - Regression analysis. Prof. S. Lemeshow,
EHESP School of Public Health, Paris, France.
2014 - Regresson Analysis in veterinary Public Health and Food Safety, University of Turin, Italy.
2013 - Epidemiological surveys and surveillance in cattle holdings. **Istituto Zooprofilattico**, Teramo, Italy.
2013 - Modeling of Infectious Diseases.
Institut Pasteur, Paris, France

scientific publications

E Valdano, M Re Fiorentin, C Poletto, V Colizza
Epidemic threshold on continuous vs. discrete time evolving networks
arXiv e-print (2017).

C L Vestergaard, E Valdano, M Génois, C Poletto, V Colizza, A Barrat
Impact of spatially constrained sampling of temporal contact networks on the evaluation of the epidemic risk
European Journal of Applied Mathematics (2016).

E Valdano, C Poletto, V Colizza
Infection propagator approach to compute epidemic thresholds on temporal networks:
impact of immunity and of limited temporal resolution
European Physical Journal B (2015).

E Valdano, L Ferreri, C Poletto, V Colizza
Analytical computation of the epidemic threshold on temporal networks
Physical Review X (2015).

E Valdano, C Poletto, A Giovannini, D Palma, L Savini, V Colizza
Predicting epidemic risk from past temporal contact data
PLoS Computational Biology (2015).

awards

2011 - Optime Award, Employers' Association of Turin, Italy.
2010 - Italian Ministry of Education Award.

scientific talks & seminars

1 invited talk
Europ. Congress of Clin. Microbiology and Inf. Diseases (2015, Copenhagen, Denmark).
title: *Network analysis used for risk assessment in infection prevention and control.*

10 contributed talks
at international conferences (2013-2017).

8 invited seminars
in research institutions (2013-2017).

1 Databeers (2015, Torino, Italy).

organization activities / dissemination

ICPS 2017, Torino, Italy
Organizer of the Int.nal Conf. of Physics Students, Aug 7-14 2017.
400+ physics students from 45 countries, budget 180k euros.

NetSci2018, Paris, France
Chair of Design.

Complex Systems Society
member since 2013,
council member since 2016.

dissemination talks
at student conferences, and in high schools.

involvment in European projects

2015 - Representative of Univ. Pierre et Marie Curie (UPMC) at project meeting of EU project EC-ANIWHA LiveEpi, involving partners from France, Italy, Netherlands, Sweden, UK.

2015 - Writing of the PHC partnership project between UPMC and Technische Universität Berlin.

language skills

Italian - mother tongue.

English - full proficiency (CAE grade A - Europ. C2).

French - full proficiency.

Spanish - professional proficiency.

Catalan - elementary proficiency.

Serbian-Croatian - elementary proficiency.

IT skills

OS
Mac, Linux, and Windows (limited).

programming & data analysis
advanced skills: **C++, Python**, Mathematica,
including Python libraries for data analysis, machine learning and plotting (numpy, scipy, pandas, scikit-learn, etc.)
limited skills: R, Stata, GIS systems.

databases
SQL.

web
PHP, HTML, Javascript.

graphics & design
Adobe Illustrator, Adobe InDesign.