

# Dr Eugenio Valdano

Postdoctoral researcher

*Departament d'Enginyeria Informàtica i Matemàtiques*

Universitat Rovira i Virgili - Campus Sescelades

Av. Països Catalans 26

43007 Tarragona, Spain

born: 13th February 1988, Turin, Italy

nationality: Italian

eugenio.valdano@gmail.com

@eugeValdano

## Academic career

### **POSTDOCTORAL RESEARCHER, NOVEMBER 2016 - CURRENT**

*Pierre Louis* Institute of Epidemiology and Public Health (UMR-S 1136), INSERM & Université Pierre et Marie Curie.

### **POSTDOCTORAL RESEARCHER, OCTOBER 2015 - SEPTEMBER 2016**

*Pierre Louis* Institute of Epidemiology and Public Health (UMR-S 1136), INSERM & Université Pierre et Marie Curie.

## Education

### **PHD IN PUBLIC HEALTH, UNIVERSITÉ PIERRE ET MARIE CURIE; PARIS, FRANCE – 2012-2015**

Supervisor: Dr. Vittoria Colizza (INSERM, UPMC, ISI Foundation).

Final thesis: Computing the vulnerability of time-evolving networks to infections

Final defence: 13 October 2015.

### **MSC IN THEORETICAL PHYSICS, UNIVERSITY OF TURIN, ITALY – 2010-2012**

Mark: 110/110 cum laude.

Final thesis: Dynamic networks and spreading processes.

Supervisors: Prof. M. Caselle (University of Turin), Dr. V. Colizza.

### **DIPLOMA, SCHOOL OF SUPERIOR STUDIES, UNIVERSITY OF TURIN, ITALY – 2010-2012**

Mark: 70/70 cum laude.

Final thesis: Mathematical modeling of anisometries in space perception induced by Unilateral Spatial Neglect.

Supervisor: Prof. R. Ricci (Dept. of Psychology, University of Turin).

### **BSC IN PHYSICS, UNIVERSITY OF TURIN, ITALY – 2008-2010**

Mark: 110/110 cum laude.

Final thesis: A study of algorithms of quantum computation.

Supervisors: Prof. M. Caselle (University of Turin), Prof. M. Rasetti (Polytechnic of Turin).

### **MATURITÀ CLASSICA (LITERARY HIGH SCHOOL DIPLOMA), LICEO C. CAVOUR; TURIN, ITALY – 2008**

Mark: 100/100 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. 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 - Regression 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

## Awards

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

## Publications

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 First View pp. 1-17 (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 88, 341 (2015)

E Valdano, L Ferreri, C Poletto, V Colizza  
Analytical computation of the epidemic threshold on temporal networks  
Physical Review X 5, 021005 (2015)

E Valdano, C Poletto, A Giovannini, D Palma, L Savini, V Colizza  
Predicting epidemic risk from past temporal contact data  
PLoS Computational Biology 11(3): e1004152 (2015)

## Invited talks

2015 - ECCMID (European Congress of Clinical Microbiology and Infectious Diseases), 25th-28th April, Copenhagen, Denmark.

Title: *Network analysis used for risk assessment in infection prevention and control*

## Contributed talks

2016 - CCS (Conference on Complex Systems), 19th-22nd Sept, Amsterdam, The Netherlands

2016 - Complex Networks, 11th-13rd July, Marseille, France

2015 - ICCSS (International Conference on Computational Social Science), 8th-11st June, Helsinki, Finland.

2015 - NETSCI (International School and Conference on Network Science), 1st-5th June, Zaragoza, Spain.

2015 - Physics of Multilayered Interconnected Networks Satellite, NETSCI, 1st June, Zaragoza, Spain.

2014 - ECCS (European Conference on Complex Systems), 22nd-26th September, Lucca, Italy.

2013 - TNETS13 (Temporal Networks in Human Dynamics) satellite at ECCS (European Conference on Complex Systems), 16th-20th September, Barcelona, Spain.

2013 - NETSCI (International School and Conference on Network Science), 3rd-7th June, Copenhagen, Denmark.

## Invited seminars

2017 - Complexity Science Hub, Vienna, Austria.

2017 - Dept. of Fundamental Physics, University of Barcelona, Spain.

2015 - Dept. of Computer Science and Mathematics, Universitat Rovira i Virgili, Tarragona, Spain.

2014 - ISI Foundation, Turin, Italy.

2014 - Veterinary Dept, University of Turin, Italy.

2013 - ISI Foundation, Turin, Italy. 2013.

## Posters

2016 - Generalized Network Structures and Dynamics, Ohio State U, Columbus, OH, USA.

2013 - EPIDEMICS 4 (Fourth International Conference on Infectious Disease Dynamics), 19th-22nd November, Amsterdam, The Netherlands.

## Dissemination activities / organizations

2017 - Member of the Organizing Committee of the XXXII International Conference of Physics Students - ICPS 2017 (<http://www.icps2017.it/>).

2015 - Talk at First Italian Conference of Physics Students, Turin, Italy.

2014 - Invited talk at Liceo Classico C. Cavour, Turin, Italy.

## Referee activity for peer-reviewed journals

Physical Review Letters,

PLoS Computational Biology,

BMC Veterinary Research

Epidemics,

Journal of Theoretical Biology,

JSTAT - Journal of Statistical Mechanics,

Physical Review E,

PLoS ONE,

Preventive Veterinary Medicine.

## Language skills

Italian - mother tongue.

English - excellent command. Cambridge C.A.E - grade A (European Level C2)

French - excellent command.

Spanish - good command.

Serbo-Croatian - basic knowledge.