



## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s) **Mario GIACOBINI**  
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Nationality Italian  
Date of birth 27 June 1973  
Gender male

### Work experience

|                                      |  |
|--------------------------------------|--|
| Dates                                | 1998-1999  |
| Occupation or position held          | Contract for Teaching Assistance   |
| Main activities and responsibilities | Cours of Foundations of Mathematics  |
| Name and address of employer         | Faculty of Pharmacy, University of Torino, Italy   |
| Dates                                | 1999   |
| Occupation or position held          | Contract for Scientific Consultation   |
| Main activities and responsibilities | Study on the possibility of the application of evolutionary computation methods to cryptography  |
| Name and address of employer         | Telsy Elettronica e Telecomunicazioni, Telecom Italia Group)   |
| Dates                                | 2000-2004  |
| Occupation or position held          | Research Assistant   |
| Main activities and responsibilities | Teaching Assistant and PhD Student   |
| Name and address of employer         | Computer Science Institut, University of Lausanne, Switzerland   |
| Dates                                | 2004-2006  |
| Occupation or position held          | Research Assistant   |
| Main activities and responsibilities | Teaching Assistant and PhD Student   |
| Name and address of employer         | Information Systems Department, University of Lausanne, Switzerland  |
| Dates                                | 2006-2015  |
| Occupation or position held          | Assistant Professor  |
| Main activities and responsibilities | Researcher and Lecturer  |
| Name and address of employer         | Faculty of Veterinary Medicine, Department of Animal Productions, Epidemiology and Ecology, Department of Veterinary Sciences, University of Torino, Italy |
| Dates                                | 2015-now   |
| Occupation or position held          | Associate Professor  |
| Main activities and responsibilities | Professor and Researcher   |
| Name and address of employer         | Department of Veterinary Sciences, University of Torino, Italy   |

## Education and training

|  |   |
|--|---|
| Dates  | 1998  |
| Title of qualification awarded                                 | Degree in Mathematics (Laurea in Matematica)  |
| Name and type of organisation providing education and training | Faculty of Mathematical, Physical and Natural Sciences of the University of Torino, Italy   |
| Dates  | 2000  |
| Title of qualification awarded                                 | Master Degree in Discrete Mathematics and Computer Science Foundations (Diplôme d'Etudes Approfondies en Mathématiques Discrètes et Fondements de l'Informatique) |
| Name and type of organisation providing education and training | Faculty of Science of the University of Aix-Marseille II, France  |
| Dates  | 2005  |
| Title of qualification awarded                                 | Ph.D. in Science and Computer Science (Doctorat ès Science and Dottorato in Informatica)  |
| Name and type of organisation providing education and training | University of Lausanne, Switzerland, and University of Milano, Italy  |

## Personal skills and competences

Mother tongue(s) **Italian**

Self-assessment

*European level (\*)*

**English**

**Francais**

| Understanding |         | Speaking           |                   | Writing |
|---------------|---------|--------------------|-------------------|---------|
| Listening     | Reading | Spoken interaction | Spoken production |         |
| C1            | C2      | C1                 | C1                | C2      |
| C2            | C2      | C2                 | C2                | C1      |

(\*) [Common European Framework of Reference for Languages](#)

## Additional information

### RESEARCH INTERESTS

**Dynamical Systems and Epidemiology:** simulation of the diffusion of pathogen agents using automata networks, with particular attention to vector-host systems and animal trade movements systems

**Artificial Evolution and Artificial Intelligence:** modelization of evolutionary dynamics in populations with a topological structure, with particular attention to the influence of the spatial and temporal dimensions on selection pressure.

**Evolutionary Games and Artificial Life:** study of 2x2 symmetric evolutionary games, and in particular of the evolution and topological organization of populations of agents playing the prisoner's dilemma

**Complex Systems and Cellular Automata:** analysis of the influence of the topological properties in automata networks for the solution of computational problems, and modelization of biological networks using generalized automata networks; generation of pseudo-random numerical sequences using cellular automata

**Genetic Programming and Bioinformatics:** application of genetic programming to problems in bioinformatics, in particular to the analysis of microarray data for the prediction of breast cancer outcomes, and limitation of the number of fitness cases in genetic programming using entropy and confidence interval concepts