



- Responsible for the design of sampling protocols, data analysis, modelling and support to the decision making to several research projects devoted to: (a) management models for agro-pastoral systems, environmental and human health to promote sustainable development in Sub-Saharan Africa; (b) prevention and control of arthropod-transmitted diseases in livestock (tick-borne diseases, tsetse-trypanosomiasis) and humans (malaria, sleeping sickness); (c) design and implementation of community-based adaptive ecosocial system management scheme for sustainable rural development.
- Teaching to graduate, post-graduated and PhD students in several African research Institutions in multi-cultural and multi-disciplinary contexts. Organization and teaching of courses to train field ecologists, technicians in IPM, agro-ecosystem managers Ethiopia and Kenya.
- Project development, revision and reporting. Analysis of scientific information and organization of reports.

From 02/1998 to 10/2000

Business or sector: International Research Centre  
P Consultant

Department of Mathematics, University of Parma, Parma: Italy

- Research: Design of monitoring system for pest risk evaluation based on the joint use of optimal sample scheme and spatial explicit modelling. Development and implementation of simulation models (single population dynamics and trophic interaction) and software packages to support the extension services in pest management, agricultural production activities and forestry.
- Teaching: Mathematical modelling in biology: principles and applications, Faculty of Physics, Biophysics courses

From 11/1991 to 10/1994

Business or sector: Public University

PhD in Animal Biology

University of Bologna, Bologna, Italy

- Experimental analysis of life-history strategies, chemical communication and aggregation of soil insects
- Individual-based models for the spatial dynamics of insect populations

Business or sector: Public University

EDUCATION AND TRAINING

[Add separate entries for each course. Start from the most recent.]

From 1996 to 1998

Post-doc in Mathematics

Replace with EQF  
or other level if  
relevant

Department of Mathematics, University of Parma, Parma, Italy

From 1991 to 1994

- Biomathematics, Numerical Analysis, Integrated Pest Management

PhD in Animal Biology

Department of Experimental Evolutionary Biology, University of Bologna, Bologna, Italy

- Life-history strategy and behavioural ecology, population dynamics, spatial ecology, individual-based modelling

From 1982 to 1991

Degree in Biological Sciences

Faculty of Mathematical, Physics and Natural Sciences, University of Parma, Italy

- Cell Biology, Botany, Zoology, Ecology, Population dynamics, Ecological modelling

PERSONAL SKILLS

[Remove any headings left empty.]

Mother tongue(s)

Italian

Other language(s)

UNDERSTANDING

SPEAKING

WRITING

	Listening	Reading	Spoken interaction	Spoken production
English	C1	C1	C1	B2
Replace with name of language certificate. Enter level if known.				

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

- Communication skills**
- More than 20 years of teaching experience in several disciplines at the Universities of Parma, Italy (Mathematical modelling in biology: principles and applications) and Reggio Calabria, Italy (General and agricultural entomology, Ecology, Ecological entomology, Principles of integrated pest management, Zoology), Brescia, Italy (Environmental and Agricultural Biotechnology, Environmental Impact of Biotechnology, Ecology, Sustainability analysis in food chain).
  - Teaching to graduate, post-graduated and PhD students in several European and African research Institutions in multi-cultural and multi-disciplinary contexts. Organization and teaching of courses to train field ecologists, technicians in IPM, agro-ecosystem managers in Italy, Albania, Ethiopia and Kenya. More than 150 scientific works published in journals, proceedings and books. More than 100 presentations in congresses, workshops and meetings.
  - Experience in leading and/or participating in working groups of scientific experts: dozens of meetings and working groups within the EFSA-PLH Panel and the other scientific groups at many research Institutions and Organizations. All these groups were formed by international experts (scientists, policy makers, facilitators, etc.) and the language used was English.
- Organisational / managerial skills**
- Participation in international research organisations and groups, also with responsibilities in coordination of working groups. Experiences in scientific work management in complex cultural environments which include individual and social actors with different objectives and moral reference systems (ICIPE, Nairobi; ICIPE Addis Ababa; Praxis Ethiopia, Addis Ababa; Yeha Institute, Addis Ababa; CASAS, Kensington, California).
  - Coordination of working group with experts of different disciplines in different research contexts: mathematicians, numerical analysts, statisticians (also Bayesians), probabilists, physicists, remote sensing specialists, engineers, meteorologists, agro-meteorologists, ecologists, zoologists, biologist, entomologists, pest managers and extensionists, development workers, sociologists, medical doctors.)
  - Scientific coordinator of several international, national and regional research projects on the following themes: (i) Sustainable management strategies of agro-pastoral systems in Africa, (ii) Community-Participatory Vector Management for Malaria Control in Rural Africa, (iii) Roll-back Tsetse and Trypanosomiasis Initiative in Sub-Saharan Africa, (iv) Peri-urban Ecosystem Assessment and Management for Human Improvement and Poverty Alleviation in Africa, (v) development and implementation of a Decision Support System for the management of forest pests, (vi) the spatio-temporal dynamics of invasive species and the design of management strategies, (vii) ecology and control of plant pest species, (viii) innovative agronomic techniques for the valorisation and the improvement of the environment, (ix) biological control in agriculture, (x) knowledge integration by developing and calibrating a simulation model for pest and beneficial insects (including pollinators).
- Job-related skills**
- Replace with any job-related skills not listed elsewhere. Specify in what context they were acquired.  
Example:
- Highly analytical thinking with demonstrated talent for identifying, scrutinizing, improving, and streamlining complex system analysis and complex work processes
  - Creative thinking and problem solving
  - Interpersonal abilities/negotiation skills, teamwork and leadership
  - Planning/organizing
  - Multicultural sensitivity/awareness
  - Flexibility/adaptability/managing multiple priorities
- Computer skills**
- Good command of word processing, spreadsheet, presentation, database-statistics
  - Elements of programming

Other skills Replace with other relevant skills not already mentioned. Specify in what context they were acquired.  
Example:

Driving licence • Category B

#### ADDITIONAL INFORMATION

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Publications • More than 230 publications in international peer reviewed journals, in Italian journal, chapters in international books, national and international conference proceedings. 65 of them published in peer-reviewed journals .

Projects • Scientific coordinator or responsible of WP in International research project  
• Scientific coordinator or responsible of WP in of several national and regional research projects

Conferences and seminars • Attendance, with oral and poster presentations, to dozens of national and international congresses, conferences and meetings. Invited speaker at several international and national conferences. Many seminars hold in International Research Organizations and University (Africa, Nord America, Europe) and in many Italian Universities, Research institutions and Extension Services.

Memberships

- Member of the Scientific Panel on Plant Health (PLH) of the European Food Safety Authority (AFSA) (<http://www.efsa.europa.eu>).
- Research Associate at CNR-IMATI (Institute for Applied Mathematics and Information Technology), Milan, Italy.
- Member of Praxis Ethiopia, an international alliance of scientists whose goal is to apply professional expertise to the problems of extreme poverty in Ethiopia (<http://www.praxisethiopia.org/>).
- Member and treasurer of the Centre for the Analysis of Sustainable Agricultural Systems (CASAS), Kensington, California, USA, an NGO providing low cost analysis of complex ecosystem, agricultural and health problems worldwide for the benefit of populations and governments in developing economies (<http://cnr.berkeley.edu/casas/index.php>).
- Member of scientific committee of the Yeha Natural Resource Management Institute for Eastern Africa (YNRMI-EA), (<http://ynmi.org/research.htm>).
- Member of the International Society for Ecological Modelling (ISEM) (<http://www.isemna.org/>).
- Member of the European Society for Mathematical and Theoretical Biology (<http://www.esmtb.org/news/news.htm>).
- Member of the Italian Society of Ecology (<http://www.societaitalianaecologia.org/>).
- Founder, member and secretary of the GRIMPP (Italian Research Group on Modelling for Plant Protection) (<http://www.grimpp.it/>).
- Member of the Italian Association for Plant Protection (Associazione Italiana per la Protezione delle Piante) (<http://www.aipp.it/home.cfm?>).
- Member of the Italian Entomological Society (<http://www.socentomit.it/>).
- Member of the Ecological Society of America

References Prof. A.P. Gutierrez, Professor Emeritus University of California at Berkeley, 203a Mulford Hall, Berkeley, CA 94720, U.S.A., Tel.: 1 510 642-9186; Email: [casas.global@berkeley.edu](mailto:casas.global@berkeley.edu)

Prof. J.C. van Lenteren, Professor Emeritus in Entomology, WU Plant Sciences, Laboratory of Entomology, PO Box 8031, 6700EH Wageningen; Email: [joop.vanlenteren@wur.nl](mailto:joop.vanlenteren@wur.nl)

Prof. P. Luciano, Professore Ordinario in Entomologia Generale e Agraria (AGR11), Università di Sassari, via E. De Nicola 1, 07100 Sassari (Italy) Tel.; +39-079-229202; Email: [pluciano@uniss.it](mailto:pluciano@uniss.it)

#### ANNEXES

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Replace with list of documents annexed to your CV. Examples:

- List of selected publications relevant to methods to be consider for the data analysis
- List of selected international projects

*Gianni Gilardi*

Brescia, 12 June 2016