



Europass Curriculum Vitae



Personal information

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Nationality	Italian
Date of birth	14.10.1968
Place of birth	Arco (TN) – ITALY
Gender	Male

Work experience

28/12/2018-date	<p>Position: Associate Professor</p> <p>Institution: Centre Agriculture Food Environment (C3A), University of Trento, San Michele all'Adige (TN), Italy</p> <p>Role: Associate Professor in Animal Infectious and Parasitic Diseases (07/H3), disciplinary sector VET/06 (Infectious and Parasitic Diseases of Animals)</p>
01/01/2008-27/12/2018	<p>Position: Senior researcher (Ricercatore di seconda fascia a tempo indeterminato, Contratto Collettivo Provinciale di Lavoro delle Fondazione di Ricerca, Provincia Autonoma di Trento)</p> <p>Institution: Applied Ecology Research Unit, Department of Biodiversity and Molecular Ecology, Research and Innovation Centre, Fondazione Edmund Mach, San Michele all'Adige (TN), Italy</p> <p>Role: Head of the research line "Ecological and epidemiological modelling"</p>
01/04/2007-31/12/2007	<p>Position: Temporary researcher (Ricercatore di seconda fascia a tempo determinato, Contratto Pubblico della Ricerca della Provincia Autonoma di Trento)</p> <p>Institution: Centre for Alpine Ecology, Viote del Monte Bondone, Trento, Italy</p> <p>Role: Researcher in the field of "Mathematical and statistical modelling of eco-epidemiological data"</p>



01/04/2004-31/03/2007	<p>Position: Post-doc researcher (Contratto di collaborazione coordinata e continuativa)</p> <p>Institution: Centre for Alpine Ecology, Viote del Monte Bondone, Trento, Italy</p> <p>Role: Principal Investigator of the project “Modelling the spatio-temporal dynamics of zoonotic wildlife infections” funded by the Autonomous Province of Trento, bando Post-doc per giovani ricercatori</p>
01/11/1997-31/03/2004	<p>Position: Research collaborator (Contratto di collaborazione coordinata e continuativa)</p> <p>Institution: Centre for Alpine Ecology, Viote del Monte Bondone, Trento, Italy</p> <p>Role: Research collaborator in the field of “Mathematical and statistical eco-epidemiology”</p>
01/11/1995-30/09/1997*	<p>Position: Fellowship holder (Borsa di studio)</p> <p>Institution: Centre for Alpine Ecology, Viote del Monte Bondone, Trento, Italy</p> <p>Role: Postgraduate fellowship in the field of “Models for host-macroparasite dynamics”</p>
01/06/1994-30/06/1994**	<p>Position: Fellowship holder (Borsa di studio)</p> <p>Institution: Centre for Alpine Ecology, Viote del Monte Bondone, Trento, Italy</p> <p>Role: Postgraduate fellowship in the field of “Models for host-macroparasite dynamics”</p> <p>**The fellowship was interrupted (and then resumed*) to carry out military service</p>

National scientific qualification

Dates	2014
	Award of the Italian National Scientific Qualification ("Abilitazione Scientifica Nazionale") as Associate Professor for the discipline 07/H3 Animal infectious and parasitic diseases (“Malattie infettive e parassitarie degli animali”)

Education and training

Dates	04/11/2003
Title of qualification awarded	Ph.D.
Principal subjects/skills covered	Biology
Name and type of organisation providing education and training	Department of Biological Science, University of Stirling, Scotland, UK
Dates	25/03/1994
Title of qualification awarded	M.Sc.
Principal subjects/skills covered	Mathematics



Name and type of organisation providing education and training | Department of Mathematics, University of Trento, Italy

Other education

Dates	08/05/2017 – 12/05/2017
Title of qualification awarded	Course on Spatio-Temporal Ecological Data Analysis using R-INLA
Principal subjects/skills covered	Regression models with spatial and temporal correlation
Name and type of organisation providing education/training	Highland Statistics Ltd., Scotland (UK)
Course duration	25 hours
Dates	09/05/2016 – 13/05/2016
Title of qualification awarded	Course on Zero-Inflated with R
Principal subjects/skills covered	Zero-inflated Generalized Linear (Mixed) Models
Name and type of organisation providing education/training	Highland Statistics Ltd., Scotland (UK)
Course duration	25 hours
Dates	11/05/2015 – 15/05/2015
Title of qualification awarded	Course on Generalized Additive Models with R
Principal subjects/skills covered	Generalized Additive (Mixed) Models
Name and type of organisation providing education/training	Highland Statistics Ltd., Scotland (UK)
Course duration	25 hours
Dates	09/07/2013 – 11/07/2013
Title of qualification awarded	Course on MATLAB Fundamentals
Principal subjects/skills covered	Comprehensive course on the MATLAB® technical computing environment
Name and type of organisation providing education/training	The MathWorks, Torino (Italy)
Course duration	20 hours
Dates	31/05/2010 – 04/06/2010
Title of qualification awarded	Course on Data exploration & Regression
Principal subjects/skills covered	Generalized Linear Models with introduction to R
Name and type of organisation providing education/training	Highland Statistics Ltd., Scotland (UK)
Course duration	25 hours
Dates	13/07/2009 – 17/07/2009
Title of qualification awarded	Summer School in Ecological Statistics
Principal subjects/skills covered	Bayesian Data Analysis Techniques for Ecologists
Name and type of organisation providing education/training	Alpine Wildlife Research Centre, Gran Paradiso National Park, Italy



Course duration	30 hours
Dates	04/12/2006- 05/12/2006
Title of qualification awarded	Course on Mathematica
Principal subjects/skills covered	Core technologies of Mathematica computational program
Name and type of organisation providing education/training	Wolfram U, Berlin (Germany)
Course duration	12 hours
Dates	05/02/2001-16/02/2001
Title of qualification awarded	Course on Analysing Biological Data
Principal subjects/skills covered	Advanced statistical methods for the analysis of biological data
Name and type of organisation providing education/training	Department of Biological Science, University of Stirling, Scotland (UK)
Course duration	60 hours
Dates	14/10/1996 – 31/10/1996
Title of qualification awarded	Third Autumn workshop on Mathematical Ecology
Principal subjects/skills covered	Mathematical Models in Ecology
Name and type of organisation providing education/training	International Centre for Theoretical Physics, Trieste (Italy)
Course duration	90 hours
Dates	10/01/1996 – 14/01/1996
Title of qualification awarded	Winter school on Population Dynamics
Principal subjects/skills covered	Quantitative Methods in Population Biology and Epidemiology
Name and type of organisation providing education/training	Dutch National Science Foundation, Woudschoten (Netherlands)
Course duration	30 hours

Personal skills and competences

Mother tongue	Italian				
Other language	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
	C1	C1	C1	C1	C1
English (*)	(*) Certificate in Advanced English, University of Cambridge, Local Examinations Syndicate				
Communication skills	Good communication skills acquired during my experience of teaching at the University and at several advanced training courses for post-graduate and PhD students				



Computer skills	Operating systems: MacOS/Windows Mathematical software: MatLab, MatCont, Mathematica, Content, Locbif Statistical software: R, R-studio, S-Plus, Genstat, Statistica Programming languages: Fortran, C++, C
Driving licence	Driving licence B category

Teaching activity

Lecturer at University

- 1 Corso di Laurea Magistrale in Agrifood Innovation Management, Centro Agricoltura Alimenti Ambiente (C3A), University of Trento (Italy)
In charge of the course: *Experimental design and sampling plans, statistical tests and programming for the analysis of agri-food and environmental data*
Teaching load: 40 hours
Academic year: 2023-2024
- 2 PhD School in Agrifood and Environmental Science, Centro Agricoltura Alimenti Ambiente (C3A), University of Trento (Italy)
In charge of the module *Eco-epidemiological models with application in public health* within the course: *Ecological and epidemiological modelling*.
Teaching load: 8 hours
Academic year: 2023-2024
- 3 Corso di Laurea Magistrale in Agrifood Innovation Management, Centro Agricoltura Alimenti Ambiente (C3A), University of Trento (Italy)
In charge of the module *Ecology and epidemiology of ectoparasites of health interest* within the course: *Eco-sustainable methods for the prevention and management of invasive alien species*.
Teaching load: 20 hours
Academic year: 2023-2024
- 4 Corso di Laurea Triennale in Viticoltura ed Enologia, Centro Agricoltura Alimenti Ambiente (C3A), University of Trento (Italy)
In charge of the course: *Mathematics and Statistics*
Teaching load: 60 hours
Academic year: 2023-2024
- 5 Corso di Laurea Magistrale in Agrifood Innovation Management, Centro Agricoltura Alimenti Ambiente (C3A), University of Trento (Italy)
In charge of the course: *Experimental design and sampling plans, statistical tests and programming for the analysis of agri-food and environmental data*
Teaching load: 40 hours
Academic year: 2022-2023
- 6 PhD School in Agrifood and Environmental Science, Centro Agricoltura Alimenti Ambiente (C3A), University of Trento (Italy)
In charge of the module *Eco-epidemiological models with application in public health* within the course: *Ecological and epidemiological modelling*.
Teaching load: 8 hours
Academic year: 2022-2023



- 7 Corso di Laurea Magistrale in Agrifood Innovation Management, Centro Agricoltura Alimenti Ambiente (C3A), University of Trento (Italy)
In charge of the module *Ecology and epidemiology of ectoparasites of health interest* within the course: *Eco-sustainable methods for the prevention and management of invasive alien species*.
Teaching load: 20 hours
Academic year: 2022-2023
- 8 Corso di Laurea Triennale in Viticoltura ed Enologia, Centro Agricoltura Alimenti Ambiente (C3A), University of Trento (Italy)
In charge of the course: *Mathematics and Statistics*
Teaching load: 60 hours
Academic year: 2022-2023
- 9 Corso di Laurea Triennale in Viticoltura ed Enologia, Centro Agricoltura Alimenti Ambiente (C3A), University of Trento (Italy)
In charge of the course: *Statistical methods in agricultural studies*
Teaching load: 60 hours
Academic year: 2021-2022
- 10 PhD School in Agrifood and Environmental Science, Centro Agricoltura Alimenti Ambiente (C3A), University of Trento (Italy)
In charge of the module *Eco-epidemiological models with application in public health* within the course: *Ecological and epidemiological modelling*.
Teaching load: 8 hours
Academic year: 2021-2022
- 11 Corso di Laurea Triennale in Viticoltura ed Enologia, Centro Agricoltura Alimenti Ambiente (C3A), University of Trento (Italy)
In charge of the course of: *Mathematics and Statistics*
Teaching load: 60 hours
Academic year: 2021-2022
- 12 Corso di Laurea Triennale in Viticoltura ed Enologia, Centro Agricoltura Alimenti Ambiente (C3A), University of Trento (Italy)
In charge of the course of: *Statistical methods in agricultural studies*
Teaching load: 60 hours
Academic year: 2020-2021
- 13 PhD School in Agrifood and Environmental Science, Centro Agricoltura Alimenti Ambiente (C3A), University of Trento (Italy)
In charge of the module *Eco-epidemiological models with application in public health* within the course: *Ecological and epidemiological modelling*.
Teaching load: 8 hours
Academic year: 2020-2021
- 14 Corso di Laurea Triennale in Viticoltura ed Enologia, Centro Agricoltura Alimenti Ambiente (C3A), University of Trento (Italy)
In charge of the course of: *Mathematics and Statistics*
Teaching load: 60 hours
Academic year: 2020-2021
- 15 Corso di Laurea Triennale in Viticoltura ed Enologia, Centro Agricoltura Alimenti Ambiente (C3A), University of Trento (Italy)
In charge of the course of: *Statistical methods in agricultural studies*
Teaching load: 60 hours
Academic year: 2019-2020



- 16 Corso di Laurea Triennale in Viticoltura ed Enologia, Centro Agricoltura Alimenti Ambiente (C3A), University of Trento (Italy)
In charge of the course of: *Mathematics and Statistics*
Teaching load: 60 hours
Academic year: 2019-2020
- 17 Corso di Laurea Triennale in Viticoltura ed Enologia, Centro Agricoltura Alimenti Ambiente (C3A), University of Trento (Italy)
In charge of the course of: *Statistical methods in agricultural studies*
Teaching load: 60 hours
Academic year: 2018-2019
- 18 Corso di Laurea Triennale in Viticoltura ed Enologia, Ingegneria delle Industrie Alimentari, University of Trento (Italy)
In charge of the course of: *Mathematics*
Teaching load: 50 hours
Academic year: 2003-2004
- 19 Corso di Laurea Triennale in Viticoltura ed Enologia, Ingegneria delle Industrie Alimentari, University of Trento (Italy)
In charge of the course of: *Mathematics*
Teaching load: 75 hours (55 hours as teaching assistant)
Academic year: 2002-2003
- 20 Corso di Laurea Triennale in Viticoltura ed Enologia, Ingegneria delle Industrie Alimentari, University of Trento (Italy)
In charge of the course of: *Mathematical Analysis I*
Teaching load: 50 hours
Academic year: 2001-2002

**Lecturer at master courses,
workshops and advanced
training courses**

- 1 ECM Accredited Workshop (in Italian): “Arbovirosi: una problematica emergente”
Location: Fondazione Bruno Kessler in Trento, Italy
Date: 15 February 2019
Lesson title: “Trasmissione e rischio d’infezione di arbovirosi trasmesse dalla zanzara *Culex pipiens*: il caso studio del virus del Nilo Occidentale”
- 2 ECM Accredited Workshop (in Italian): “Il controllo delle zanzare: l’approccio multidisciplinare One-Health”
Location: Fondazione Edmund Mach in San Michele all’Adige (TN), Italy
Date: 28 November 2017
Lesson title: “Modelli matematici per la stima del rischio di trasmissione di arbovirosi tropicali veicolate dalla zanzara tigre”
Lesson duration: 1 hour
- 3 ECM Accredited Course (in Italian): “Artropodi vettori di patogeni per l’uomo e gli animali”
Location: Istituto Zooprofilattico Sperimentale delle Venezie in Legnaro (PD), Italy
Date: 23 May 2016
Lesson title: “Nuovi modelli per il controllo delle specie invasive in Italia: il progetto Lexem”
Lesson duration: 2 hours



- 4 International Course: “Mathematical modelling applied to emerging disease models”, organized by EU-FP6 PROJECT EDEN “Emerging Diseases in a changing European Environment
Location: University of Utrecht, The Netherlands
Date: 23-25 June 2005
Lessons titles: “Modelling tick-borne infections” and “Tick-borne infections: ecology and dynamics”
Lessons duration: 4 hours
- 5 Master Course (in Italian): “Ecologia delle malattie trasmissibili nella fauna selvatica”, organized by Società Italiana di Ecopatologia della Fauna
Location: Centro di Ecologia Alpina, Viote del Monte Bondone (TN), Italy
Date: 6-10 June 2005
Lesson title: “Modelli matematici per lo studio della dinamica delle malattie trasmesse da zecche”
Lesson duration: 2 hours
- 6 Master Course (in Italian): “Ecologia delle malattie trasmissibili nella fauna selvatica” organized by Società Italiana di Ecopatologia della Fauna
Location: Centro di Ecologia Alpina, Viote del Monte Bondone (TN), Italy
Date: 17-21 May 2004
Lesson title: “Modelli matematici per lo studio della dinamica delle malattie trasmesse da zecche”
Lesson duration: 2 hours
- 7 Advanced Training Course (in Italian): “Medicina Veterinaria: Conservazione e Gestione della Fauna Selvatica”, organized by Società Italiana di Ecopatologia della Fauna
Location: Rifugio Alpe Cucco, Bosco della Ficuzza, Corleone (Palermo), Italy
Date: 27-30 April 1998
Lesson title: “Introduzione ai modelli di dinamica di popolazione e all’interazione ospite-macroparassita”
Lesson duration: 2 hours
- 8 Advanced Training Course (in Italian): “Ecologia delle malattie trasmissibili nella fauna selvatica” organized by Società Italiana di Ecopatologia della Fauna
Location: Centro di Ecologia Alpina, Viote del Monte Bondone (TN), Italy
Date: 1-5 December 1997
Lesson title: “Ecologia delle malattie trasmesse da vettori”
Lesson duration: 2 hours

Invited seminars

- 1 DIDE Seminars series
Location: Faculty of Medicine, School of Public Health, Imperial College London (UK)
Host: Dr. Ilaria Dorigatti
Date: 24 October 2016
Seminar title: “The role of climatic and ecological factors in shaping mosquito-borne infection dynamics: *Culex pipiens* and West Nile virus as case studies”
- 2 Biomathematics seminar series
Location: Department of Mathematics, University of Trento (Italy)
Host: Prof. Andrea Pugliese
Date: 26 May 2014
Seminar title: “Research activity on mathematical epidemiology at FEM”



- 3 | Biomathematics seminar series
 Location: Department of Mathematics, University of Trento (Italy)
 Host: Prof. Andrea Pugliese
 Date: 6 November 2008
 Seminar title: “Modelling tick-borne infections”

Mentoring and supervision activity

Supervision of junior researchers and post-docs

- 1 | Daniele Da Re
 Research fellow at Centre Agriculture Food Environment (C3A), University of Trento – Fondazione Edmund Mach, San Michele all’Adige (TN), Italy
 Period 01/01/2023 – 31/08/2024
 Role: Supervisor
- 2 | Federico Ossi
 Research fellow at Centre Agriculture Food Environment (C3A), University of Trento – Fondazione Edmund Mach, San Michele all’Adige (TN), Italy
 Period 09/12/2019 – 28/02/2021
 Role: Supervisor
- 3 | Letizia Fambri
 Junior researcher within the Research Agreement “*Aedes albopictus* monitoring plan for Comunità Alto Garda e Ledro, Trentino, Italy”
 Period: 30/05/2016 – 30/11/2016
 Role: Supervisor
- 4 | Daniel Inversen
 Junior researcher within the Research Agreement “*Aedes albopictus* monitoring plan for Comunità Alto Garda e Ledro, Trentino, Italy”
 Period: 30/05/2016 – 30/11/2016
 Role: Supervisor
- 5 | Giovanni Marini
 Junior researcher within the European project EuroWestNile “European West Nile R&D collaborative project”
 Period: 16/03/2013 – 15/10/2013
 Role: Supervisor
- 6 | Bolzoni Luca
 Post-doc researcher within the project EuroWestNile “European West Nile R&D collaborative project”
 Period: 01/12/2011 – 28/02/2014
 Role: Supervisor
- 7 | Bolzoni Luca
 Post-doc researcher within the project ACE-SAP “Alpine ecosystems in a changing environment: biodiversity sensitivity and adaptive potential”
 Period: 01/12/2009 - 30/11/2011
 Role: Supervisor



Supervision of PhD and master students

- 1 Eleonora Longo
PhD student at the Centre Agriculture Food Environment (C3A), University of Trento, San Michele all'Adige (TN), Italy
Title of PhD project: "Innovation in monitoring of mosquito vectors of human and zoonotic diseases in Italy"
Period: 01/11/2023 – date
Role: Supervisor
- 2 Giulia Mecattelli
PhD student at the Centre Agriculture Food Environment (C3A), University of Trento, San Michele all'Adige (TN), Italy
Title of PhD thesis: "Spread, circulation and impact of emergent arthropode borne viruses: a novel study between Senegal and Italy"
Period: 01/11/2019 – 31/01/2023
Role: Supervisor
- 3 Chiara Virgillito
PhD student at the Department of Public Health and Infectious Diseases in University of Roma SAPIENZA (Italy)
Title of PhD thesis: "Quantitative methods to estimate public health risk from invasive Aedes arbovirus vectors"
Period: 01/11/2018 – 31/01/2022
Role: Co-supervisor with Prof. Alessandra della Torre (University of Roma SAPIENZA, Italy)
- 4 Youmsi Fokou Roger Ducos
PhD Internship from University of Yaounde I (Cameroon) at Fondazione Edmund Mach, San Michele all'Adige (TN), Italy
Title of internship project: "Training in data analysis of repellent properties of ethno-botanically plant extract"
Period: 01/05/2017 – 30/07/2017
Role: Co-supervisor with Dr. Annapaola Rizzoli (Fondazione Edmund Mach)
- 5 Giovanni Marini
PhD student at the Department of Mathematics, University of Trento (Italy)
Title of PhD thesis: "The importance of climatic and ecological factors for vector-borne infections: *Culex pipiens* and West Nile virus"
Period: 01/11/2013 – 26/04/2017
Role: Co-supervisor with Prof. Andrea Pugliese (University of Trento)
- 6 Moustafa Mohamed
PhD Internship from Hokkaido University, Sapporo (Japan) at Fondazione Edmund Mach, San Michele all'Adige (TN), Italy
Title of internship project: "Training in data analysis of rodents populations infected with tick-borne pathogens"
Period: 15/11/2015 – 30/11/2015
Role: Co-supervisor with Dr. Annapaola Rizzoli (Fondazione Edmund Mach)



- 7 Nina Vanessa Littwin
PhD Internship from Karlsruhe Institute of Technology, Zoological Department (Germany) at Fondazione Edmund Mach, San Michele all'Adige (TN), Italy
Title of internship project: "Training in advance analysis of complex ecological datasets"
Period: 04/05/2015 – 19/06/2015
Role: Supervisor
- 8 Mattia Manica
PhD Internship from University of Roma "La Sapienza" (Italy) at Fondazione Edmund Mach, San Michele all'Adige (TN), Italy
Title of internship project: "Analisi dati eco-epidemiologici per il controllo integrato di zanzare vettrici di patogeni"
Period: 27/02/2015 – 16/03/2015
Role: Supervisor
- 9 Marini Giovanni
M.Sc. Internship from Department of Mathematics, University of Trento (Italy) at Fondazione Edmund Mach, San Michele all'Adige (TN), Italy
Title of internship project: "Relazione tra dinamica di popolazione di zanzare e andamenti meteo-climatici"
Period: 01/08/2012 – 31/01/2013
Role: Supervisor
- 10 Mattia Manica
M.Sc. Thesis in Mathematics at the Department of Mathematics, University of Trento (Italy)
Title of M.Sc. Thesis: "A two-host shared macroparasite system with spatial heterogeneity"
Period: 01/10/2010 - 30/03/2011
Role: Co-supervisor with Prof. Andrea Pugliese (University of Trento)
- 11 Mattia Manica
M.Sc. Internship from Department of Mathematics, University of Trento (Italy) at Centre for Alpine Ecology, Trento (Italy)
Title of internship project: "Relazione statistica tra fenologia delle zecche e clima"
Period: 01/12/2009 – 01/03/2010
Role: Supervisor
- 12 Lorenzoni Rosanna
MS.c. Internship from Department of Mathematics, University of Trento (Italy) at Centre for Alpine Ecology, Trento (Italy)
Title of internship project: "Studio di Infezioni trasmesse da zecche"
Period: 11/03/2004 - 20/05/2004
Role: Supervisor
- Marighetti Cinzia
MS.c. Internship from Department of Mathematics, University of Trento (Italy) at Centre for Alpine Ecology, Trento (Italy)
Title of internship project: "Studio di Infezioni trasmesse da zecche"
Period: 11/03/2004 - 20/05/2004
Role: Supervisor



International and national projects

	<i>Research projects for which funding has been provided on the basis of competitive selection procedures and which include peer review</i>
2022-2025	Project title: Tackling mosquitoes in Italy: from citizen to bench and back (<i>MosqIT</i>) Funding agency: Italian Ministry of University and Research – PRIN 2020 Total amount funded: € 830 374 Role in the project: Research Unit Principal Investigator
2020-2025	Project title: Monitoring Outbreak events for Disease surveillance in a data science context (<i>MOOD</i>) Funding agency: European Commission – Horizon 2020 Programme Total amount funded: € 12 000 000 Role in the project: Partner’s investigator
2018-2022	Project title: Aedes Invasive Mosquitoes COST ACTION (<i>AIM</i>) Funding agency: European Commission – COST Open Call Total amount funded: € 600 000 Role in the project: Management Committee member and Task Leader
2016-2021	Project title: A Global Alliance for Zika Virus Control and Prevention (<i>ZIKAlliance</i>) Funding agency: European Commission – Horizon 2020 Programme Total amount funded: € 15 587 726 Role in the project: Partner’s principal investigator
2013-2017	Project title: Laboratory of Excellence for Epidemiology and Modelling. Facing the introduction and spread of Invasive Alien Species (IAS) into the territory of the Autonomous Province of Trento (<i>LEXEM</i>) Funding agency: Autonomous Province of Trento – Bando Grandi Progetti anno 2012 Total amount funded: € 1 017 145 Role in the project: Project’s deputy coordinator
2012-2015	Project title: <i>Aedes albopictus</i> in northern Italy - molecular markers and mathematical models to predict its potential future spread and the impact of control strategies (<i>Aedespread</i>) Funding agency: Ministero della Salute – Bando Ricerca Finalizzata anno 2010 Total amount funded: € 210 700 Role in the project: Partner’s investigator
2011-2014	Project title: European West Nile R&D collaborative project (<i>EuroWestNile</i>) Funding agency: European Commission – 7 th Framework Programme Total amount funded: € 3 923 032 Role in the project: Work-package principal investigator
2011-2014	Project title: Biology and control of vector-borne infections in Europe (<i>EDENext</i>) Funding agency: European Commission – 7 th Framework Programme Total amount funded: € 11 981 710 Role in the project: Partner’s investigator



2008-2011	<p>Project title: Alpine ecosystems in a changing environment: biodiversity sensitivity and adaptive potential (<i>ACE-SAP</i>)</p> <p>Funding agency: Autonomous Province of Trento – Bando Fondo Unico per i progetti di ricerca</p> <p>Total amount funded: € 2 732 736</p> <p>Role in the project: Work-package principal investigator</p>
2004-2010	<p>Project title: Emerging Diseases in a Changing European Environment (<i>EDEN</i>)</p> <p>Funding agency: European Commission – 6th Framework Programme</p> <p>Total amount funded: € 11 497 856</p> <p>Role in the project: Partner’s investigator</p>
2004-2007	<p>Project Title: “Modelling the spatio-temporal dynamics of zoonotic wildlife infections (<i>MOSTWIN</i>)”</p> <p>Funding agency: Autonomous Province of Trento - Bando Post-doc per giovani ricercatori</p> <p>Total amount funded: € 145 000</p> <p>Role in the project: Project’s principal Investigator</p>
2001-2003	<p>Project Title: “Ecology and control of some zoonotic wildlife diseases (<i>ECODIS</i>)”</p> <p>Funding agency: Autonomous Province of Trento - Bando Fondo Unico per i progetti di ricerca</p> <p>Total amount funded: € 498 533</p> <p>Role in the project: Partner’s investigator</p>

Brief summary of the carrier

After receiving my degree in Mathematics from the University of Trento (Italy) in 1994 (title of the M.Sc. thesis: “Modelli di epidemia da macroparassiti”) I was granted a fellowship in Mathematical Biology at the Centre for Alpine Ecology (Trento), ranked among the best 10 research institute in Italy [Scientometrics (2011) 88:599-615; DOI 10.1007/s11192-011-0406-x]. At the beginning of my career, my main research activity was the development and analysis of models for host-macroparasite interactions. After that fellowship, I continued to work as research collaborator at the Centre for Alpine Ecology in the field of mathematical and statistical modelling applied to host-parasite interactions. Afterwards, thanks to the funded project *ECODIS* (Ecology and control of some zoonotic wildlife diseases) I obtained a PhD grant at the University of Stirling (Scotland, UK) where I received my PhD in Biology in 2003 defending the thesis “The importance of aggregation in the dynamics of host-parasite interaction in wildlife: a mathematical approach”. From 2003 to 2007 I worked as post-doc researcher at the Centre for Alpine Ecology as Principal Investigator of the project “Modelling the spatio-temporal dynamics of zoonotic wildlife infections”, funded by the Autonomous Province of Trento (Bando Post-doc per giovani ricercatori). From 2008 to 2018, I worked as a permanent senior researcher at Fondazione Edmund Mach (FEM) in San Michele all’Adige (TN), Italy. At the end of 2018 I obtained a permanent position as Associate Professor in animal infectious and parasitic diseases (07/H3), within the disciplinary scientific sector VET/06 (infectious and parasitic diseases of animals), at the Centre Agriculture Food Environment (C3A) of the University of Trento (Italy). My main scientific interest focuses on modelling the interactions between ecology and epidemiology of infectious and parasitic diseases. I have been working mostly on host-parasite interactions and vector-borne disease models. My publication list contains more than 100 peer-reviewed papers (see list of ISI publications below). I am a reviewer for several peer-reviewed journals, including Journal of Mathematical Biology, Bulletin of Mathematical Biology, Ecological Modelling, Mathematical Biosciences, Journal of Theoretical Biology, PLoS Computational Biology, PLoS Neglected and



Tropical Diseases, Parasites & Vectors and Vector-Borne and Zoonotic Diseases. During my senior career I have continuously tutored masters and PhD students from various Italian and international Universities. I have been involved in several international research projects: EU-FP6 project *EDEN* “Emerging Diseases in a Changing European Environment”; EU-FP7 projects *EDENext* “Biology and control of vector-borne infections in Europe” and *EuroWestNile* “European West Nile R&D collaborative project”; EU-H2020 project *ZIKAlliance* “A global alliance for Zika virus control and prevention”; EU-H2020 project *MOOD* “Monitoring Outbreak events for Disease surveillance in a data science context”; EU-COST Open Call project *AIM* “Aedes Invasive Moquitoes”; MUR PRIN 2020 “Tackling mosquitoes in Italy: from citizen to bench and back (MosqIT)”. In these projects I have been leading data analysis and modelling activities.

Publications

Scientometrics

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- *Publons metric: Number of papers 92; Times cited 2248; h-index: 27.*
- *Scopus metric: Number of papers 90, Sum of the Times Cited 2470; h-index 29.*
- *Google Scholar metric: Number of papers 247; Times cited 3970; h-index: 35.*

List of ISI Publications

- 1 Mencattelli G., Ndione M.H., Silverj A., Diagne M., Curini V., Teodori L., Di Domenico M., Mbaye R., Leone A., Marcacci M., Gaye A., Ndiaye E., Diallo D., Ancora M., Secondini B., Di Lollo V., Mangone I., Bucciacchio A., Polci A., Marini G., Rosà R., Segata N., Fall G., Cammà C., Monaco F., Diallo M., Rota Stabelli O., Faye O., Rizzoli A. and Savini G. 2023. Spatial and temporal dynamics of West Nile virus between Africa and Europe. *Nature Communications* (in press).
- 2 Manica M., Marini G., Solimini A., Guzzetta G., Poletti P., Scognamiglio P., Virgillito C., della Torre A., Merler S., Rosà R., Vairo F., Caputo B. 2023. Reporting delays of chikungunya cases during the 2017 outbreak in Lazio region, Italy. *Plos Neglected and Tropical Diseases* 17(9): e0011610.
- 3 Solimini A., Virgillito C., Manica M., Poletti P., Guzzetta G., Marini G., Rosà R., Filipponi F., Scognamiglio P., Vairo F., Caputo B. 2023. How habitat factors affect an Aedes mosquitoes driven outbreak at temperate latitudes: the case of the Chikungunya virus in Italy. *Plos Neglected and Tropical Diseases* 17(8): e0010655.
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Book chapters

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- Conference proceedings**
- 1 Andreo V., Metz M., Neteler M., Rosà R., Marcantonio M., Billinis C., Rizzoli A. and Papa A. 2017. “Can reconstructed land surface temperature data from space predict a west Nile virus outbreak?” ISPRS - Int. Arc. of the Photogrammetry, Remote Sensing and Spatial Inf. Sc., vol. XLII-4/W2, pp. 19–26, 18–22 July 2017, Marne La Vallée, France.
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- Selected presentations at conferences**
- 1 Rosà R., Marini G. and Rizzoli A. Quantification of risk factors driving vector-borne zoonotic infections in northern Italy. Oral presentation at 7h World One Health Congress (WOHC2022), Singapore, 7-11 November 2022.
- 2 Rosà R., Marini G., Calzolari M., Dorigatti I., Nikolay B., Pugliese A. and Tamba M. Modelling the transmission dynamics of West Nile virus in Emilia-Romagna region (Italy) Invited speaker at 11th International Conference ‘Dynamical Systems Applied to Biology and natural Science’, Trento (Italy), 4-7 February 2020.
- 3 Rosà R., Tagliapietra V., Arnoldi D., Hauffe H.C., Manica M., Rossi C., Rosso F. and Rizzoli A. Early warning of tick-borne encephalitis: climatic variables and rodent density successfully explain *Ixodes ricinus* co-feeding transmission in northern Italy. Oral presentation at 21st E-SOVE Conference, Palermo (Italy), 22-26 October 2018.
- 4 Rosà R. and Rizzoli A. Surveillance, monitoring, and mathematical models to estimate the transmission risk of invasive mosquitoes-borne infections in Trentino (northern Italy). Invited speaker at 72 Conference of the Italian Society of the Veterinary Sciences. Torino (Italy), 20-22 June 2018.
- 5 Rosà R. Quantitative methods in epidemiology to inform early warning systems: vector-borne zoonoses as case studies. Invited speaker at XLI Conference of Italian Epidemiology Association. Mantova (Italy), 25-27 October 2017.
- 6 Rosà R., Marini G., Guzzetta G., Baldacchino F., Arnoldi D., Montarsi F., Capelli G., Rizzoli A. and Merler S. Temporal dynamics of *Aedes albopictus* and *Culex pipiens* in northern Italy: the effect of interspecific competition. Invited speaker at Third International Workshop on *Aedes albopictus*, Pavia (Italy), 9-12 April 2017.
- 7 Rosà R., Bolzoni L., Cagnacci F., Hauffe H.C., Tagliapietra V., Ferreri L., Giacobini M., Kazimirova M., Henttonen H. and Rizzoli A. Modelling the effects of tick-host interaction on pathogen dynamics: TBE as a case study. Oral presentation at Ecology at the Interface (EEF-SitE) Conference, Roma (Italy), 21-25 September, 2015.



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- 10 Rosà R., Bolzoni L., Cagnacci F. and Rizzoli A. Effect of deer density on tick-borne encephalitis dynamics. Oral presentation at 7th European Conference on Ecological Modelling. Riva del Garda (TN), Italy, May 2011.
- 11 Rosà R., Bolzoni L., Cagnacci F. and Rizzoli A. Effect of deer density on tick-borne encephalitis dynamics: empirical and theoretical assessment. Oral presentation at XX Congresso Società Italiana di Ecologia. Roma (Italy), September 2010.
- 12 Rosà R. and Pugliese A. Modelling seasonality in tick-borne infections. Oral presentation at the European Conference of Mathematical and Theoretical Biology. Edinburgh (UK), July 2008.
- 13 Rosà R., Rizzoli A., Ghosh M., Perkins S.E. and Pugliese A. Influence of rodent density and climatic variables on tick population dynamics in northern Italy. Oral presentation at 5th European Congress of Mammalogy. Siena (Italy), September 2007.
- 14 Rosà R., Pugliese A., Hudson P.J. and Rizzoli A. Modelling tick-borne encephalitis in Trentino (northern Italy). Oral presentation at VIIth Conference of the European Wildlife Diseases Association (EWDA). Sant-Vincent (AO) Italy, September 2006.
- 15 Rosà R., N.Ferrari N., Pugliese A. and Rizzoli A. Effect of host sex on the dynamics of *Heligmosomoides polygyrus*- *Apodemus flavicollis* interaction: a modelling approach. Oral presentation at 10th Rodens and Spatium - The International Conference on Rodent Biology. Parma (Italy), July 2006.
- 16 Rosà R. Persistence of tick-borne infections under different modelling assumptions. Oral presentation at Marrakesh World Conference on Differential Equations and Applications. Marrakesh (Maroc), June 2006.
- 17 Rosà R., Rizzoli A., Pugliese A., Perkins S.E. and Hudson P.J. Influence of host densities on tick-borne infections: the case of tick-borne encephalitis. Oral presentation at 5th International Conference on Ticks and Tick-borne Pathogens. Neûchatel (Switzerland), September 2005.
- 18 Rosà R., Ferrari N. and Pugliese A. The role of sex in parasite dynamics: model simulations on *Heligmosomoides polygyrus* transmission in yellow-necked mouse populations. Oral presentation at 6th European Conference of Mathematical and Theoretical Biology. Dresden (Germany), July 2005.
- 19 Rosà R., Rizzoli A., Pugliese A. and Hudson P.J. The role of host biodiversity, density and transmission routes in generating non-linearities in tick borne infections. Oral presentation at 53rd Annual Meeting of the Wildlife Disease Association. San Diego, California (USA), September 2004.
- 20 Rosà R., Rizzoli A., Pugliese A. and Hudson P.J. Tick borne diseases and host density: persistence of Lyme disease and tick-borne encephalitis in Trentino. Oral presentation at Computational and Mathematical Population Dynamics Conference. Trento (Italy), June 2004.



- 21 Rosà R., Pugliese A., Gosh M., Norman R. and Hudson P.J. Modelling the dynamics of Lyme Disease and Tick-borne Encephalitis in Trentino (northern Italy). Oral presentation at 2nd International Conference on Mathematical Ecology. Alcalà de Henares (Spain), September 2003.
- 22 Rosà R., Pugliese A., Villani A. and Rizzoli. Individual-based vs. deterministic models for macroparasites: host cycles and extinction. Oral presentation at 5th Meeting of European Society for Mathematical and Theoretical Biology. Milano (Italy), July 2002.
- 23 Rosà R., Norman R., Pugliese A., Rizzoli A. and Hudson P.J. A model for tick-borne infections with viraemic and non-viraemic transmission. Oral presentation at 18th Conference of World Association for the Advancement of Veterinary Parasitology. Stresa (VB), Italy, August 2001.
- 24 Rosà R., Pugliese A. A comparison among models for macroparasite-host interactions. Oral presentation at 4th Meeting of European Society for Mathematical and Theoretical Biology. Amsterdam (Nederland), July 1999.

Organization of conferences and workshops

- 1 Workshop 'Identify signs and drivers of zoonotic diseases emergence and digital data resources for Epidemic Intelligence'. EU H2020 'MOOD' project. Trento (Italy), 28th - 29th September 2022.
- 2 Data Analysis Workshop 'Harmonising and reporting AIMSurg2020 field data' within AIM COST Action CA17108. 14th December 2020 – 26th April 2021. Online workshop.
- 3 11th International Conference 'Dynamical Systems Applied to Biology and natural Science' DSABNS 2020, Trento (Italy), 4th-7th February 2020.
- 4 International Conference "Facing the invasion of alien arthropods species: ecology, modelling and control of their economic impact and public health implications". Trento (Italy), November 2016.
- 5 International Workshop "Ecology of invasion: facing the impact of alien species and their transmitted pathogens in the Anthropocene". Riva del Garda (TN), Italy, July 2015.
- 6 WWMB2009 - White Workshop on Mathematical Biology. Trento (Italy), December 2009.
- 7 International Workshop "The Ecology of Zoonoses". Centro di Ecologia Alpina, Viote del Monte Bondone (TN), Italy, July 2006.
- 8 International Workshop "Mathematical modelling applied to emerging disease models" within EU FP6 PROJECT EDEN "Emerging Diseases in a changing European Environment. Woudschoten, The Netherlands, 23-25 June 2005.
- 9 International Workshop "The Ecology of Wildlife Diseases". Centro di Ecologia Alpina, Viote del Monte Bondone (TN), Italy, July 1998.

Scientific roles and responsibilities

- 1 Scientific representative for Fondazione Edmund Mach (FEM) and member of the Managing Committee of the Joint Research Unit (JRU) named "EPILAB - Laboratory of quantitative Epidemiology of emerging diseases" constituted by FEM and Fondazione Bruno Kessler (Trento). Period: 2018-2019.



- 2 Scientific representative for Fondazione Edmund Mach (FEM) and member of the Monitoring Committee of the “Scientific collaboration agreement for surveillance activities on West Nile virus in Emilia Romagna” constituted by Istituto Zooprofilattico Sperimentale della Lombardia e dell’Emilia Romagna “Bruno Ubertini” (IZSLER), Institut Pasteur (Parigi, France), Imperial College (London, UK), University of Trento and FEM. Period: 2018-2020.
- 3 Scientific representative for University of Trento of the “Scientific collaboration agreement for surveillance activities on West Nile virus in Emilia Romagna” constituted by Istituto Zooprofilattico Sperimentale della Lombardia e dell’Emilia Romagna “Bruno Ubertini” (IZSLER), Agenzia Regionale per la prevenzione, l’ambiente e l’energia dell’Emilia-Romagna, Struttura Idro-Meteo-Clima (Arpae SIMC), Imperial College (London, UK), University of Trento and Fondazione Edmund Mach (FEM). Period: 2022-2026.
- 4 Member of the “Scientific task-force for the control of tiger mosquito and other invasive mosquitoes on the territory of the Autonomous Province of Trento (Italy)” coordinated by Fondazione Edmund Mach. Period: 2017-2019.
- 5 Scientific representative of Fondazione Edmund Mach (FEM) of the Research Agreement “*Aedes albopictus* monitoring plan for Comunità Alto Garda e Ledro, Trentino, Italy” constituted by C.AGeL and FEM. Period: May 2016-November 2016.

Academic roles and responsibilities

- 1 Delegate for ‘Support for disabilities and other special needs’ for Centro Agricoltura Alimenti Ambiente, University of Trento (Italy), Italia. Period: 2019-date.
- 2 Delegate for ‘Equity and diversity policies’ for Centro Agricoltura Alimenti Ambiente, University of Trento (Italy), Italia. Period: 2019-date.
- 3 Member of the ‘Teacher-student joint commission for the quality of teaching’ of Centro Agricoltura Alimenti Ambiente, University of Trento (Italy). Period: 2019-date.

Arco (TN), 2nd October 2023

Roberto Rosà


