

PERSONAL INFORMATION

MASSIMO CANALI



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Date of birth 20/08/1959 | Nationality Italian

BRIEF BIO

Massimo Canali (PhD in Agricultural Economics and Policy) is Associate Professor at the University of Bologna teaching agricultural economics, environmental economics, and economic geography. His research is concerned with the sustainable development of agriculture and food systems focusing on animal and environmental health economics and One-Health. He worked in international research and development projects for the European Commission (DGs Agri, Enlargement, and JRC), the European Parliament, the FAO, the Int. Atomic Energy Agency, and the Italian Ministry of Foreign Affairs. He was work package leader in the EU FP7-Project FUSIONS on food waste and participated in the EU COST Action "Network for the Evaluation of One Health – NEOH". He is involved in economic evaluations regarding the area-wide control of tiger mosquitos, and animal and zoonotic diseases in Italy. A partial list of current projects includes: the ERASMUS+ Project ELEPHANT (One Health in South Africa); the JPI-AMR CoEval2; the EU H2020-project ROADMAP for a more prudent use of antimicrobials in livestock farming (work package leader); the COST Action BETTER on biosecurity in animal farms (Management Committee Member); and the Horizon E. Project BIOSECURE (Enhanced and cost-effective biosecurity in livestock production). He has obtained the National Scientific Qualification as Full Professor of Agricultural Economics.

EDUCATION AND TRAINING

Jan. 1990 - July 1993

Dottorato di Ricerca (PhD) in Economia e Politica Agraria

EQF level 8

Università di Bologna (Italy)

Oct. 1990 - May 1992

Diplôme d'Agronomie Approfondie en Sciences Economiques et Sociales - Développement Agricole

EQF level 7

Institut National Agronomique de Paris-Grignon (France)

Nov. 1981 - March 1988

Laurea (Master degree equivalent) in Scienze Agrarie

EQF level 7

Università di Bologna (Italy)

WORK EXPERIENCE

since April 2005

Academic at the University of Bologna:

- Associate Professor (since June 2022)
- Assistant Professor (April 2005 - June 2022)

University of Bologna (Italy) – Dept. of Agro-Food Science and Technology

Current teachings (School of Economics, Management and Statistics and Department of Agricultural and Food Sciences): Economic Geography and Environmental Economics (since 2013/14); Vine and Wine Business Management (since 2017/18); Economics and Marketing of Wines and Food Products (since 2023/2024); Economics of Animal Production (since 2024/2025);

Previous teachings: Economics and Policy of Sustainable Agri-Food Systems (2014/15-2016/17); Agricultural Economics and Policy (2003/04-2013/14); Economics of Environment and Natural Resources (2004/05-2012/13); History of Economics (2002/03-2006/07); Business Economy

(2005/06-2007/08);

International projects

- Since January 2023, Participating in the Horizon Europe Project BIOSECURE (Enhanced and cost-effective biosecurity in livestock production, 2023-2026), Call HORIZON-CL6-2022-FARM2FORK-01-03;
- June 2019–May 2023, Work Package leader in the European H2020 project ROADMAP (Rethinking Of Antimicrobial Decision-systems in the Management of Animal Production, 2019-2023) - call H2020-SFS-2018-2 on Antimicrobials and Animal Production;
- Since July 2021, Managing Committee member of the European COST Action BETTER (CA20103 - Biosecurity Enhanced Through Training Evaluation and Raising Awareness) coordinated by the Universitat Autònoma de Barcelona (2021-2024);
- January 2021-January 2023 - Member of the Network Project “Convergence in evaluation frameworks for integrated surveillance of antimicrobial resistance and antimicrobial use - CoEval-AMR PHASE 2” coordinated by the University of Montreal, Joint Programming Initiative on Antimicrobial Resistance-JPIAMR, (2021-2022);
- January 2020-January 2023, One Health economic evaluations for the EU ERASMUS+ Project “Empowering universities’ Learning and rEsearch caPacities in the one Health Approach for the maNagement of animals at the wildlife, livestock and human interface in SouTh Africa - ELEPHANT”, coordinated by the University of Utrecht;
- Feb.-March 2019, Responsible of the study “Sterile Insect Technique, cost-effectiveness comparative analysis in Italy”, International Atomic Energy Agency, Vienna (Project TAL-TCLA20190125-001);
- Dec. 2014-Nov. 2018, EU Project COST, TD Action n. 1404 “NEOH – Network for the Evaluation of One Health”, Management Committee Substitute-Member, responsible for the NEOH handbook chapter on economic evaluations;
- June-Nov. 2015, Scientific coordinator of the project on “Poverty Reduction through Rural Development in Balochistan, Khyber Pakhtunkhwa, Federally Administered Tribal Areas and Neighbouring Areas (Pakistan)”, Package 2 – Action 1 “Study Visits to Italy for an overview of the Rural Development Context and learn from leading Institutions” (Loan/TAN° F.ROT/AID 10/003/00) Italian Ministry of Foreign Affairs;
- Oct. 2012-Sept. 2015, EU Project Lifelong Learning “NEAT-Networking to enhance the use of economics in animal health education, research and policy-making in Europe and beyond”;
- Aug. 2012-June 2014, Work Package Leader in the FP7-KBBE project n. 311972 – FUSIONS – Food Use for Social Innovation by Optimising waste prevention Strategies;
- Oct.-Dec. 2010, Scientific director of the professional training course on “Creation and management of small and medium enterprises in the fruit and vegetable, wine and zootechny industries for professional operators from Andean countries” with the Polo Scientifico-Didattico of Forlì of the University of Bologna and the Italian Ministry of Foreign Affairs;
- Dec. 2008-Aug. 2009: "Feasibility study on the setting up of a platform for data and information exchange for the European fruit and vegetable market" (AGRI/2008-G4-01) European Commission, DG Agriculture and Rural Development;
- Dec. 2007-May 2008: study on “The Competition between food crops and non-food crops for energy: what are the effects on agricultural structures and the use of land” (IP/AGRI/FWC/2006-146-Lot02-C01-SC1), the European Parliament – DG for Internal Policies of the Union;
- June 2007-Apr. 2008: study on “Evaluation of the Set Aside Measure, 2000-2006” (AGRI/2006-G4-16), the European Commission – DG for Agriculture and Rural Development;
- June 2006-Feb. 2007: study on “Integration of the new Members States into the Common Agricultural Policy” (IPOL/B/AGRI/ST/2006-054), the European Parliament – DG for Internal Policies of the Union;

National projects and other research

- March-September 2023, research project on “Economic assessment of the human burden of AMR related to the use antibiotics in UK farms”, committed by World Animal Protection;
- October 2021-September 2022, research project on “Economic modelling of global public health costs related to factory farming”, committed by World Animal Protection;
- September 2019-June 2020, research project on “Cost-effectiveness analysis of bovine brucellosis

surveillance strategies in milk farms”, with the Local Health Authority of Parma and the Istituto Zooprofilattico Sperimentale della Lombardia e dell’Emilia-Romagna;

- December 2017-December 2021, member of the research project on “Estimation of the costs of the bluetongue disease for Italian farms and the National Health System”, IZS AM 05/17 RC, with Istituto Zooprofilattico Sperimentale dell’Abruzzo e del Molise.
- July 2017-June 2019, member of the research project on “Evaluation of policy measures to control two emerging parasitic diseases (Cystic Echinococcosis and Leishmaniasis) in Veneto Region using a One Health approach” with the University of Padua.
- Since June 2015, responsible for a research project on the evaluation of costs supported by private citizens for the tiger mosquito invasion in Emilia-Romagna (Project COSFAT), with the Health Services of Emilia-Romagna Region;
- Jan. 2013-June 2016, PhD dissertation director, thesis on “Economics of vector-borne diseases prevention: The case of the Tiger Mosquito control and Chikungunya and Dengue prevention plan in the Emilia-Romagna region (Northern Italy)”, financed by Health Services of Emilia-Romagna Region;
- Nov. 2008-July 2013, course of Higher Education and Technical Training (IFTS) for Agro-food production engineers (Irecoop Emilia-Romagna), scientific committee;
- Oct. 2011-Apr. 2012, responsible for the research project on Economic aspects of area-wide integrated tiger mosquito control in Emilia-Romagna, Azienda Unità Sanitaria Locale di Cesena;
- Jan. 2008-July 2011, PhD dissertation director, thesis on “Vulnerability to food insecurity and livelihood strategies of small-holder farmers in East Hararghe – Ethiopia”;
- Jan.-Dec. 2008: scientific committee of the Doctorate (PhD) in International Cooperation and Sustainable Development Policies;

Visiting

- July 2016, Invited lecture on “Agri-food systems, sustainability and climate change challenges”, Wako University, Tokyo;
- Sept. 2015-Jan. 2016, Invited visiting researcher at AgroParisTech (Paris), invited lectures on “L’intégration de l’agriculture italienne dans la Politique Agricole Commune”, “L’agriculture et le système agro-alimentaire italien”; “Economies, politiques et évaluations environnementales”;
- May-June 2015, Invited visiting researcher at the Leverhulme Centre for Integrated Research on Agriculture and Health, EU COST, TD Action n. 1404 “NEOH – Network for the Evaluation of One Health”;
- March-April 2010, Visiting Professor at the Faculty of Agriculture of the University of Sarajevo (Erasmus Mundus Programme – JoinEU-SEE Project);

from March 1993 to April 2005

Agronomist

Municipality of Cesena (Italy) – Agricultural Services

- management of the Municipality’s agricultural services with competence on inspections in farms related to selling of farm products, environmental impact of farm activities, and correct application of good farming practices;
- evaluation and assessment of farm assets and real estates;
- management of the Municipality’s farms (80 ha, arable crops, fruit crops, and vineyard production) and Municipality’s rural estates rented to farmers (480 ha);

from 1988 to 2004

Temporary positions as researcher, consultant expert, project manager and contract professor (Agricultural Economics and Policy)

University of Bologna (Italy)

- 2002-2004: teachings at the University of Bologna as contract professor (2002—2004): Agricultural Economics and Policy; Economics of Environment and Natural Resources; History of Economic Thought.
- 2002-2004; IPTS-ESTO Research Project on Structural Reform and Competitive Candidate Countries Agriculture in an Enlarged Europe, a Prospective Analysis (EU Commission Joint Research Centre Institute for Prospective Technological Studies -Seville and European Science and Technology Observatory);

- Sept. 1999; teaching at the 5th Summer School on Post-Communist Transition and European Integration Processes;
- 1997/98/99; Project Manager in the EU/Phare-Ace project P96-6020-R Reconstruction of Agrarian Systems in Transitional Economies, a Comparative Analysis of Albania and Bosnia and Herzegovina;
- 1995; participating in the Réseau d'Etudes Maghrébines des Ressources Humaines (REMARH) MED CAMPUS EC Project n. C191 - La Gestion des Ressources Humaines dans les PMI/PME au Maghreb;
- 1993/94; Department fellow researcher;
- 1988/89; Department granted fellowship holder;
- 1988/89; Erasmus Projects' manager in the Faculty of Agriculture of Bologna;
- 1987/88; Pilot Project on the use of ethanol from agricultural biomasses as anti-knock for car fuel (National Agricultural Academy of Bologna and Italian Ministry of Agriculture and Forestry).

from Oct. 2002 to Sept. 2003

Contract Professor (Economics of Livestock Production)

University of Camerino (Italy) - Faculty of Veterinary

- teaching Economics of Livestock Production;

from May to Dec. 2000 / May-June 2001

Post-war Recovery/Agricultural Development Project Leader

Comitato Europeo per la Formazione in Agricoltura - CEFA NGO (Gorazde Office – Bosnia and Herzegovina)

- Constructing a Centre for Agricultural Services in the Gorazde Canton - Bosnia and Herzegovina, project n. 2378/CEFA/BSN Italian Ministry of Foreign Affairs;
- organise and manage the recovery of a destroyed cooperative farm in Gorazde Canton;
- set up a plant nursery and a greenhouse for propagation of apple, pear, raspberry and strawberry;
- set up a service of renting machinery for farmers and refugees of the Drina valley and cooperate in the activities of the United Nations High Commissioner for Refugees.

May 1999

Consultant expert agro-economist

FAO (Sarajevo Office)

- expert consultant in the project GCP/002/BIH/ITA Inventory of Post-War Situation of Land Resources in Bosnia and Herzegovina (FAO-TCOC and AGSL Services);

from April to June 1997

Honorary Visiting Associate

University of Edinburgh (UK) - International Social Sciences Institute:

- Research on European agricultural systems

from 1995, to 1997

Temporary positions as consultant expert agro-economist

Centro Internazionale Crocevia NGO – Rome

- 1995/96/97: participating in the Eu funded project on Réseaux des Interdépendances Agro-Alimentaires dans la Méditerranée - RIDAAM 88/92 (including one mission in Tunisia-Sabah Ghozia region, April 1996);
- 1995; training the staff of the project "Conservation and use of environmental resources for the populations of the lake Ruwka basin and Game and Forest Reserves of Lukwati and Muipa – Tanzania" funded by the Italian Ministry of Foreign Affairs;

from 1991, to 1993

Collaboration as consultant expert agro-economist

University of Roskilde (DK) - Dept. of economics and planning

- participating into the project on "Marginalization, specialization, co-operation: science, technology and cohesion in the Baltic and Mediterranean regions", MONITOR/FAST Programme - Theme B Continental Europe: Science, Technology and Community Cohesion;

- 1992 **Collaboration as consultant expert agro-economist**
EUROSTAF-ITALIA Spa – Milano
 ▪ carry out a study on the main firms of the Italian agro-food industry and their European competitors;
- 1991 **Collaboration as consultant expert agro-economist**
EUROSTAF/Europe Stratégie Analyse Financière SA – Paris
 ▪ carry out a study on the impact of biotech engineering on the seed industry;
- 1989 **Collaboration as consultant expert agro-economist**
University Federico II, Naples - Centro Ricerche Economico-Agrarie per il Mezzogiorno
 ▪ production cost analysis of tobacco crops in Verona lowlands and forage crops in Lodi

LANGUAGE SKILLS

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	C2	C2	C2	C2	C2
Spanish	B1	B1	B1	A1	A1

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

ADDITIONAL INFORMATION

- Publications**
1. M. Canali, V. Suprani, M. Aragrande, M. Hitziger, B. Häsler. The Economic Evaluation of One Health Interventions. In B. Häsler, A. Tvarijonaviciute, S. Savic (eds.). Principles of One Health for a better planet. CABI. Wallingford (UK) and Boston (USA). 2025. Ch. 13, pp. 300-331. DOI: 10.1079/9781800623002.0014.
 2. G. Laing, D. Wernli, D. J. Thomson, M. Canali, P. Inácio, M. Vilhena, H. Msagama, S. Dorjee, C. Lajaunie. Policy and Governance. In B. Häsler, A. Tvarijonaviciute, S. Savic (eds.). Principles of One Health for a better planet. CABI. Wallingford (UK) and Boston (USA). 2025. Ch. 14, pp. 332-353. DOI: 10.1079/9781800623002.0015
 3. Beber, C. L.; Aragrande, M.; Canali, M., Policies and strategies to control antimicrobial resistance in livestock production: A comparative analysis of national action plans in European Union Member States, «HEALTH POLICY», 2025, 152, Article number: 105238 , pp. 1 – 8. DOI: 10.1016/j.healthpol.2024.105238.
 4. Z. Ardakani, M. Aragrande, M. Canali, Global antimicrobial use in livestock farming: an estimate for cattle, chickens, and pigs, *Animal*. 18 (2024), 101060. doi: 10.1016/J.ANIMAL.2023.101060.
 5. Canali, M.; Vici, L.; Morales, S. R.; Donati, L.; Matrangolo, C.; Venturelli, C.; Angelini, P.; Dottori, M.; Bellini, R.; Carrieri, M., Household expenditure on control of urban mosquitoes *Aedes albopictus* and *Culex pipiens* in Emilia-Romagna, Northern Italy, «PLOS NEGLECTED TROPICAL DISEASES», 2024, 18, Article number: e0012552 , pp. 1 – 18. DOI: 10.1371/journal.pntd.0012552.
 6. Laura Tomassone, Federico Scali, Nicoletta Formenti, Giovanni Loris Alborali, Maurizio Aragrande, Massimo Canali, Costanza Romanelli, Valentina Suprani, Daniele De Meneghi, Evaluation of 'ClassyFarm', the Italian integrated surveillance system of livestock farms, in the

- context of antimicrobial use and antimicrobial resistance, «ITALIAN JOURNAL OF ANIMAL SCIENCE», 2024, 23, pp. 1426 – 1438. DOI: 10.1080/1828051X.2024.2407092.
7. Beber, Caetano Luiz; Aragrande, Maurizio; Canali, Massimo, Identifying specific targets for the member states to achieve the European Union's goal of 50 per cent reduction in sales of veterinary antimicrobials by 2030, «EUROCHOICES», 2024, 23, pp. 5 – 12. DOI: 10.1111/1746-692x.12451
 8. Massimo Canali; Maurizio Aragrande; Caetano Luiz Beber, The 2030 Veterinary Antimicrobial Sales Reduction Target in Europe: Where Are We? «EUROCHOICES», 2024, 23, pp. 52 – 53. DOI: 10.1111/1746-692x.12444.
 9. Molia, Sophie; Wauters, Erwin; Ribbens, Stefaan; Belloc, Catherine; Canali, Massimo; Kongsted, Hanne; Studnitz, Merete, How contexts and desired impacts shape interventions towards improved antimicrobial use in animal production, «EUROCHOICES», 2024, 23, pp. 44 – 51. DOI: 10.1111/1746-692x.12445.
 10. Beber, C. L.; Aragrande, M.; Canali, M., Policy Mixes to Control Anti-microbial Resistance in Livestock Production: A Comparative Analysis of National Action Plan Implementation in Relevant Countries, in: Innovation and Knowledge in Agri-food and Environmental Systems, Cham, Springer Nature, 2024, pp. 329 - 333 (atti di: 58th Conference of the Italian Association of Agricultural Economists, SIDEA 2022, ita, 2022). DOI: 10.1007/978-3-031-65168-7_53.
 11. Beber, C. L.; Pasquali, F.; Gambi, L.; Manfreda, G.; Aragrande, M.; Suprani, V.; Canali, M., Stakeholders' Perceptions About Antimicrobial Use Practices and AMR Issues in the Italian Poultry Industry, in: Alessio Cavicchi, Francesco Caracciolo, Maria Crescimanno, Maria De Salvo, Antonino Galati, Antonio Seccia, Laura Secco, Innovation and Knowledge in Agri-food and Environmental Systems, Cham, Springer Nature, 2024, pp. 303 - 308 (atti di: 58th Conference of the Italian Association of Agricultural Economists, SIDEA 2022, ita, 2022). DOI: 10.1007/978-3-031-65168-7_49.
 12. C. Beber, L. Lecomte, I. Rodrigo, M. Canali, A. Seabra Pinto, E. Pomarici, E. Giraud-Heraud, S. Pérès, G. Malorgio, The agroecological challenges in the wine sector: perceptions from European stakeholders, *Wine Economics and Policy*. 12 (2023) 103–120. doi:10.36253/wep-15244.
 13. Zahra Ardakani, Massimo Canali, Maurizio Aragrande, Laura Tomassone, Margarida Simoes, Agnese Balzani, Caetano Luiz Beber. Evaluating the contribution of antimicrobial use in farmed animals to global antimicrobial resistance in humans, *One Health*, 2023, 17, Article number: 100647, pp. 1 – 10.
 14. Gabrielle Laing et al., Advancing One Health: Updated core competencies, *CABI One Health*, 2023, 2023, Article number: 2023-0002, pp. 1 – 13.
 15. Maurizio Aragrande, Massimo Canali, Caetano Luiz Beber, Valentina Suprani, Costanza Romanelli, Capitolo 10. Valutazione economica delle parassitosi, in: De Carneri. *Parassitologia generale e umana. Quattordicesima edizione*, Bologna, Zanichelli Editore SpA, 2023, pp. 136 – 150.
 16. Paolo Trevisi, Laura Amatucci, Roberta Ruggeri, Costanza Romanelli, Giampietro Sandri, Diana Luise, Massimo Canali, Paolo Bosi. Pattern of antibiotic consumption in two Italian production chains differing by the endemic status for Porcine Reproductive and Respiratory Syndrome. *Frontiers in Veterinary Science*, 2022, 9, Art. 840716, pp. 1-12 DOI: 10.3389/fvets.2022.840716.
 17. Maurizio Aragrande, Massimo Canali, Mariana Roccaro, Elisabetta Ferraro, Alessandra Bonoli, Federica Savini, Silvia Piva, Laura Gallina, Angelo Peli, Vittorio Sambri, Alessandra Scagliarini, One Health Evaluation: A Case Study at the University of Bologna, *Frontiers in Public Health*, 2021, 9, pp. 1 – 12. DOI: 10.3389/fpubh.2021.620120.
 18. Massimo Canali. «Jean-Christophe Paoli - Printzipales e pastori sardi. Origine e trasformazione di un allevamento ovino mediterraneo», *Économie Rurale*, 2021, n. 375 | janvier-mars. DOI: <https://doi.org/10.4000/economierurale.8698>.
 19. Boriani, Elena; Aragrande, Maurizio; Canali, Massimo; Balzan, Mario V.; Asaduzzaman, Muhammad, Pragmatic Use of Planetary Health and Nature-Based Solutions for Future Pandemics Using COVID-19 Case Scenario, *Frontiers in Public Health*, 2021, 9, pp. 1 – 5. DOI: 10.3389/fpubh.2021.620120.
 20. Häslar, Barbara; Cuevas, Soledad; Canali, Massimo; Aragrande, Maurizio; Shaw, Alexandra; Zinsstag, Jakob, “One Health Economics”, in Zinsstag, J. et Al.: *One Health. The Theory and Practice of Integrated Health Approaches*. 2nd Edition, Wallingford (UK), Boston (USA), CABI,

- 2021, pp. 118 – 134, DOI: 10.1079/9781789242577.0118.
21. Maurizio Aragrande, Massimo Canali. "Integrating epidemiological and economic models to identify the cost of foodborne diseases". *Experimental Parasitology*, Vol 210, Art. 107832, pp. 1-9, ISSN: 0014-4894 DOI: 10.1016/j.exppara.2020.107832.
 22. Massimo Canali, Maurizio Aragrande, Andrea Angheben, Gioia Capelli, Michele Drigo, Federico Gobbi, Francesca Tamarozzi, Rudi Cassini. "Epidemiologic-economic models and the one health paradigm: echinococcosis and leishmaniasis, case studies in Veneto region, Northeastern Italy". *One Health*, vol. 9, art. 100115, ISSN: 2352-7714, DOI: 10.1016/j.onehlt.2019.100115.
 23. Martin Hitziger, Maurizio Aragrande, John A. Berezowski, Massimo Canali, Victor Del Rio Vilas, Sabine Hoffmann, Gilberto Igrejas, Hans Keune, Alexandra Lux, Meighan Bruce, Markus A. Palenberg, Christian Pohl, Miroslav Radeski, Ina Richter, Carmenza Robledo Abad, Robert H. Salerno, Sara Savic, Janina Schirmer, Barbara R. Vogler, Simon R. Rüegg, "EVLvINC: EValuating knOWledge INtegration Capacity in multistakeholder governance", *Ecology and Society*, 2019, 24(2), 36, pp. 1 - 16, DOI: 10.5751/ES-10935-240236.
 24. Massimo Canali, Maurizio Aragrande, Soledad Cuevas, Laura Cornelsen, Meighan Bruce, Cristina Rojo-Gimeno and Barbara Häslér, "The economic evaluation of One Health", in Simon R. Rüegg, Barbara Häslér and Jakob Zinsstag (eds.), *Integrated approaches to health. A handbook for the evaluation of One Health*, Wageningen, Wageningen Academic Publishers, 2018, pp. 170-216, DOI: 10.3920/978-90-8686-875-9.
 25. Simon R. Rüegg, Barbara Häslér, Liza Rosenbaum Nielsen, Sandra C. Buttigieg, Mijalche Santa, Maurizio Aragrande, Massimo Canali, Timothy Ehlinger, Kevin Queenan, Ilias Chantziaras, Elena Boriani, Miroslav Radeski, Meighan Bruce, Hans Keune, Houda Bennani, Chinwe Ifejika Speranza, Luís P. Carmo, Roberto Esposito, Maria-Eleni Filippitzi, K. Marie McIntyre, Barry J. McMahon, Marisa Peyre, Laura C. Falzon, Kevin L. Bardosh, Chiara Frazzoli, Tine Hald, Grace Marcus and Jakob Zinsstag, "A One Health evaluation framework", in Simon R. Rüegg, Barbara Häslér and Jakob Zinsstag (eds.), *Integrated approaches to health. A handbook for the evaluation of One Health*, Wageningen, Wageningen Academic Publishers, 2018, pp. 38-85, DOI: 10.3920/978-90-8686-875-9.
 26. Canali, Massimo; Fornasari, Massimo, Il secondo dopoguerra: il ruolo dell'istruzione nel decollo di un'area periferica, in: Fornasari, Massimo; Mazzotti, Omar (eds.), *Anima civitatis. Capitale umano e sviluppo economico in Romagna dall'Ottocento al Duemila*, Bologna, Il Mulino, 2018, pp. 159 – 224.
 27. Massimo Canali, Laura Vici, Claudio Venturelli, Carmela Matrangolo, Paola Angelini, Stefano Rivas Morales, Romeo Bellini, "Quanto costa alle famiglie difendersi dalle zanzare", *Ecoscienza*, 2018, 9, 3, pp.54-55.
 28. Sandra C. Buttigieg, Sara Savic, Daniel Cauchi, Elaine Lautier, Massimo Canali, and Maurizio Aragrande, "Brucellosis Control in Malta and Serbia: A One Health Evaluation", *Frontiers in Veterinary Science*, 2018, 5, art. 147, pp. 1-15, doi: 10.3389/fvets.2018.00147.
 29. Gabrielle Laing, Maurizio Aragrande, Massimo Canali, Sara Savic and Daniele De Meneghi, "Control of Cattle Ticks and Tick-Borne Diseases by Acaricide in Southern Province of Zambia: A Retrospective Evaluation of Animal Health Measures According to Current One Health Concepts", *Frontiers in Public Health*, 2018, 6, March, art. 45, pp. 1-12, DOI: 10.3389/fpubh.2018.00045.
 30. Martin Hitziger; Roberto Esposito; Massimo Canali; Maurizio Aragrande; Barbara Haeslerd; Simon Rüegg, "Knowledge integration in One Health policy formulation, implementation and evaluation", *Bulletin of the World Health Organization*, 2018, 96 (3), pp. 211-218, DOI: 10.2471/BLT.17.202705.
 31. Simon R. Rüegg; Liza R. Nielsen; Sandra C. Buttigieg; Mijalche Santa; Maurizio Aragrande; Massimo Canali; Timothy Ehlinger; Ilias Chantziaras; Elena Boriani; Miroslav Radeski; Kevin Queenan; Meighan Bruce; Barbara Haesler, "A Systems Approach to Evaluate One Health Initiatives", *Frontiers in Veterinary Science*, 2018, 5, 23, pp.1-18, doi: 10.3389/fvets.2018.00023.
 32. Maurizio Aragrande; Massimo Canali, "Animal health and price transmission along livestock supply chains", *Scientific and Technical Review - Office International des Epizooties*, 2017, 36 (1), pp. 86 – 97, DOI: 10.20506/rst.36.1.2612.
 33. Canali, Massimo; Rivas-Morales, Stefano; Beutels, Philippe; Venturelli, Claudio, "The Cost of Arbovirus Disease Prevention in Europe: Area-Wide Integrated Control of Tiger Mosquito,

- Aedes albopictus*, in Emilia-Romagna, Northern Italy”, *International Journal of Environmental Research and Public Health*, 2017, 14(4), 444, pp. 1 – 22, DOI: 10.3390/ijerph14040444.
34. Aragrande, M., Stancampiano, L., Pagliarani, A.; Bombardi C.; Chiocchetti, R., Clavenzani, P.; Canali, M., Dall'Olio, S., Guarniero, I., Visani, G., Tassinari, M., Trombetti, F., “Interdisciplinary Approach to Teaching: How Economics Can Benefits? Report about an experiment at the Veterinary School of the Bologna University”, *Inaugural Conference of the International Society for Economics and Social Sciences of Animal Health (ISESSAH)*, Aviemore (UK), 27-28, March 2017,
 35. Rüegg, Simon R.; McMahon, Barry J.; Häslar, Barbara; Esposito, Roberto; Nielsen, Liza Rosenbaum; Ifejika Speranza, Chinwe; Ehlinger, Timothy; Peyre, Marisa; ARAGRANDE, MAURIZIO; Zinsstag, Jakob; Davies, Philip; Mihalca, Andrei Daniel; Buttigieg, Sandra C.; Rushton, Jonathan; Carmo, Luís P.; De Meneghi, Daniele; CANALI, MASSIMO; Filippitzi, Maria E.; Goutard, Flavie Luce; Ilieski, Vlatko; Milićević, Dragan; O'Shea, Helen; Radeski, Miroslav; Kock, Richard; Staines, Anthony; Lindberg, Ann, “A Blueprint to Evaluate One Health”, *Frontiers in Public Health*, 2017, 5, 20, pp. 1 – 5, DOI: 10.3389/fpubh.2017.00020.
 36. Canali, Massimo; Amani, Pegah; Aramyan, Lusine; Gheoldus, Manuela; Moates, Graham; Östergren, Karin; Silvennoinen, Kirsi; Waldron, Keith; Vittuari, Matteo, “Food Waste Drivers in Europe, from Identification to Possible Interventions”, *Sustainability* 2017, 9 (1), 37, pp. 1-33, DOI:10.3390/su9010037
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Recent conferences and workshops

- Oral Presentations: "Evaluation of Private and Public Costs of Sheep Blue Tongue Disease: The Case of Sardinia Btv-4 Epidemics" and "Economic impact assessment of biosecurity measures in animal breeding: a novel MCDM model based on Biocheck Ugent", ISVEE-17, 17th International Symposium on Veterinary Epidemiology and Economics, Sydney, 11 – 15 November 2024.
- Oral Presentation: "The integration of One Health within the 2023-2027 CAP", 60th Conference of the Italian Society of Agricultural Economics (SIDEA), Anacapri, 15-17 settembre 2024.
- Oral Presentation: "Are the sustainability labels a premium or a penalty? A Hedonic pricing model on the Primitivo di Manduria PDO wines", 3rd Conference of the European Association of Wine Economics (EUAW), Lecce, 11 - 14 June 2024.
- Oral Presentations: "The economic burden of the bluetongue disease for the sheep industry in Sardinia: an evaluation of private and public costs of the 2017 BTV-4 epidemics", "Cost evaluation of internal biosecurity measures in the Italian pig sector", and "Global Antibiotic Use in Animal Farming: An Estimation for Cattle, Chickens, and Pigs", 59th Conference of the Italian Society of Agricultural Economics (SIDEA), Orosei, 21-22 September 2023.
- Oral presentation: "Price impacts of ecofriendly attributes on cheap standard wines and quality wines: a comparison between hedonic model investigations", 2nd Conference of the European Association of Wine Economics (EUAW), 2023, Chania, 18-21 May 2023.
- Oral Presentations: "Stakeholders' perceptions about antimicrobial use practices and AMR issues in the Italian poultry industry", and "Antibiotic Resistance in Humans: An Analysis of Antibiotic Use in Food Animal Farming", 58th Conference of the Italian Society of Agricultural Economics (SIDEA), Palermo, 29-30 September 2022.
- Oral presentation: "Stakeholders' perception of agroecological transition in the wine industry", 1st Conference of the European Association of Wine Economics (EUAW), 2022, Vila Real, 18-21 May 2022.
- Oral presentation: "Policy Mixes to Control Anti-Microbial Resistance in Livestock Production: A Comparative Analysis of National Action Plan Implementation in Relevant Countries", ISESSAH 2021 Online Conference, Kuala Lumpur, 1-18 November 2021.
- Oral Presentation: "Do ecolabels make the difference for prices of quality wines? A hedonic price analysis on online sales", 57th Conference of the Italian Society of Agricultural Economics (SIDEA), Bologna, 16-17 September 2021.
- Poster presentation: "Impacts on production performances and costs from the development of antibiotic-free poultry farming, a case study in Italy", 5th International Conference on responsible use of antibiotics in animals", Amsterdam, 7-9 June 2021.
- Poster presentation: "Effects of the Porcine Reproductive and Respiratory Syndrome on the antibiotic consumption in pig weaning and fattening units in Italy", 5th International Conference on responsible use of antibiotics in animals", Amsterdam, 7-9 June 2021.

- Invited speaker, presentation "ROADMAP WP1 2nd year results presentation", *Rethinking of antimicrobial decision-systems in the management of animal production, ROADMAP H2020 Project – 2st Year Meeting*, On-Line Conference, 20-22 April 2021.
- Poster presentation: "The economic burden of bluetongue disease for the Italian sheep industry and the national health service", 8th International Symposium on sheep, goat and other non-cow milk – the International Dairy Federation", Bruxelles, 3-6 November 2020.
- Poster presentation: "Consumers' willingness to pay for meat produced without using antibiotics: a hedonic price analysis in Italian supermarkets", *6th One Health World Congress 2020*, Edinburgh, 30 October – 3 November 2020.
- Invited speaker, presentation "ROADMAP WP1 1st year results presentation", Workshop leader, "ROADMAP WP1 Discussion session", *Rethinking of antimicrobial decision-systems in the management of animal production, ROADMAP H2020 Project – 1st Year Meeting*, On-Line Conference, 3-4 June 2020.
- Invited speaker, presentations "Assessment of antimicrobial use in the different livestock production systems – T1.2 Presentation", "Evolutionary analysis of the regulatory and institutional context – T1.3 Presentation", *Rethinking of antimicrobial decision-systems in the management of animal production, ROADMAP H2020 Project Additional General Assembly*, Paris, 5-7 February 2020.
- Presentation, "Economic evaluation of the bluetongue disease impacts on the Italian sheep industry and the National Health Service", *International Society for Economics and Social Sciences in Animal Health – ISESSAH 2019 Conference*, Atlanta, 20 July 2019.
- Invited speaker, "One Health: added values and governance", *One Health Scientific Conference - Strengthening One Health implementation for the prevention and control of arbovirus infections in the Mediterranean and Sahel Regions*, Istituto Superiore di Sanità (ISS), Rome, 26-27 November 2018.
- Workshop leader, "Economic Evaluation of One Health Initiatives – Opportunities and Limitations", *One Health and Food Safety – International Congress*, Bonn, 18-19 September 2018.
- Presentation, "The Three Pillars of Sustainability in One Health and Their Metrics – Social, Ecological and Economic Dimensions", *One Health and Food Safety – International Congress*, Bonn, 18-19 September 2018.
- Session Chair, "One Health and EcoHealth developments in different macroregional contexts (Part II)", *Creating Impact for One Health and EcoHealth: advancements in implementation, evaluation and governance*, COST Action 1404, Network for Evaluation of One Health - NEOH, Final Conference and Workshop, Bologna, 10-12 September 2018.
- Organization Committee, *Creating Impact for One Health and EcoHealth: advancements in implementation, evaluation and governance*, COST Action 1404, Network for Evaluation of One Health - NEOH, Final Conference and Workshop, Bologna, 10-12 September 2018.
- Session Chair, "One Health, for systems-based, integrative approach to sustainable public health", *European Forum of Science – ESOF 2018*, Toulouse, 9-14 July 2018.
- Presentation, "Evaluation of measures to control emerging parasitic diseases (Cystic Echinococcosis and Leishmaniasis) in Veneto region, North-Eastern Italy", *International Society for Economics and Social Sciences in Animal Health – ISESSAH 2018 Conference*, Montpellier, 14-15 May 2018.
- Presentation, "Analysis of households private expenditure for protection against *A. albopictus* in Emilia-Romagna", *Sustainable invasive mosquitoes management following the LIFE CONOPS initiative*, LIFE CONOPS (LIFE12 ENV/GR/000466) Final Meeting, Bologna, 14-16 April 2018.
- Invited expert, *WG3 workshop on meta-analysis of One Health initiative*, COST TD Action 1404 – NEOH, Skopje, Macedonia, 25th – 27th September 2017.
- Invited expert, *Workshop on Systems Approaches for sustainable agriculture – Part II*, European Commission, DG Agriculture and Rural Development, Unit B2 – Research & Innovation, Bruxelles, 5-6-September 2017.
- Invited expert, *Workshop on Transdisciplinary Research Evaluation: from Methodological Challenges to Indicator Definition*, COST TD Action 1404 – NEOH, Zurich, Switzerland 22nd-23rd June 2017.
- Poster, "Interdisciplinary approach to teaching: how Economics can benefit? Report about an

experiment at the Veterinary School of the Bologna University", *Inaugural Meeting of the International Society for Economics and Social Sciences of Animal Health - ISESSAH*, Aviemore, Scotland, 24-25 March 2017.

- Invited expert, *NEOH Workshop and Management Committee Meeting*, COST TD Action 1404 – NEOH, La Valletta, Malta, 16th-17th January 2017.
- Invited expert, *Workshop on Systems Approaches for sustainable agriculture – Part I*, European Commission, DG Agriculture and Rural Development, Unit B2 – Research & Innovation, Bruxelles, 5-6-December 2016.
- Presentation, "NEOH handbook - Chapter 6, Economic Evaluations of One Health", *NEOH workshop and 3rd Management Committee*, Lisboa, 18-19 January 2016.
- Pitch presentation, "Policy evaluation: a One Health approach", *8th European Public Health Conference. Health in Europe -from global to local policies, methods and practices*, Milano, 14-17 October 2015.
- Presentation, "An operational tool to enhance One Health interdisciplinarity", *3rd Global Risk Forum - One Health Summit - Fostering interdisciplinary collaboration for global public and animal health*, Davos, Switzerland, 4-6 October 2015.
- Presentation, "The economic dimension of vector-borne disease ecology: Public costs of *Aedes albopictus* control in Europe, a case study", *3rd Global Risk Forum - One Health Summit - Fostering interdisciplinary collaboration for global public and animal health*, Davos, Switzerland, 4-6 October 2015.
- Organization Committee, *NEAT meets Italian Vets. The role of economics in the veterinary profession*, Bologna (Italia), 9 September 2015.
- Organization Committee, *3rd NEAT Annual Meeting - Beyond NEAT, the future of the Network, how we shall engage?*, NEAT Project (Erasmus LLL), Cesenatico (Italia), 7-8 September 2015;
- Presentation, "Drivers of current food waste generation and reduction trends", *International Conference of Agricultural Economists - ICAE 2015; Pre-Conference Workshop - Waste not want not: The economics of the food waste - food security nexus*, Milano, 8 August 2015.
- Poster, "NEAT: Networking to enhance the use of economics in animal health education, research and policy making in Europe and beyond", *2o ENEPI - Encontro Nacional de Epidemiologia Veterinária*, Sao Paulo, 6-8 July 2015.
- Presentation, "The Economic Evaluation of One Health", *Network for the Evaluation of One Health (NEOH) - Working Group 1 meeting on Handbook review and Training School on Evaluation: Best practice approaches and applications in multiple disciplines*, COST TD Action 1404 - NEOH, Cluj Napoca (Romania), 23-26 June 2015;
- Presentation, "Economics of vector-borne disease prevention, the case of tiger mosquito in Italy and its challenge for Europe", *6th SIMID Workshop*, Antwerp, 28-29 April 2015.
- Presentation, "Le commerce de bétail et de viande dans les systèmes agraires de la Romagne (siècles XVII-XIX)", *1ère Conférence Internationale d'Histoire et des Cultures de l'Alimentation - Institut Européen d'Histoire et des Cultures de l'Alimentation - IEHCA*, Tours, France, 26th-27th March 2015.

Summary of research and development projects

- i. Horizon Europe Project BIOSECURE (Enhanced and cost-effective biosecurity in livestock production), Call HORIZON-CL6-2022-FARM2FORK-01-03, Coordinated by the University of Gent (2023-2026);
- ii. Work Package Leader in the EU H2020-SFS-2018-2-11 project n.817626 - ROADMAP - Rethinking Of Antimicrobial Decision-systems in the Management of Animal Production, coordinated by Institut National de la Recherche Agronomique - INRA (2019-2023);
- iii. Managing Committee member of the European COST Action BETTER (CA20103 - Biosecurity Enhanced Through Training Evaluation and Raising Awareness) coordinated by the Universitat Autònoma de Barcelona (2021-2024);
- iv. "Convergence in evaluation frameworks for integrated surveillance of antimicrobial resistance and antimicrobial use - CoEval-AMR PHASE 2", coord. Università di Montreal, funding institution Joint Programming Initiative on Antimicrobial Resistance-JPIAMR, (Jan. 2021 - Dec. 2022).
- v. EU ERASMUS+ Project "Empowering universities' Learning and rEsearch caPacities in the

- one Health Approach for the maNagement of animals at the wildlife, livestock and human interface in SouTh Africa - ELEPHANT", coordinated by the University of Utrecht (2020-2022).
- vi. Italian Ministry of Public Health "Cost assessment of the Bluetongue disease (BT) for the Italian sheep industry and the National Health System" (IZS AM 05/17 RC) co-ordinated by the Experimental Zoo-prophylactic Institute of Abruzzo and Molise (2017-2020);
 - vii. Local Health Authority of Parma and Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia-Romagna, research project on "Cost-effectiveness analysis of bovine brucellosis surveillance strategies in milk farms" (2019-2020);
 - viii. Feb.-March 2019, Responsible of the study "Sterile Insect Technique, cost-effectiveness comparative analysis in Italy", International Atomic Energy Agency, Vienna (Project TAL-TCLA20190125-001);
 - ix. University of Padua, BIRD174940 "Evaluation of policy measures to control two emerging parasitic diseases (Cystic Echinococcosis and Leishmaniasis) in Veneto Region using a One Health approach" (2017-2019);
 - x. EU COST, TD Action n. 1404 "NEOH - Network for the Evaluation of One Health" (2014-2018), Management Committee;
 - xi. Loan/TAN° F.ROT/AID 10/003/00: "Poverty Reduction through Rural Development in Balochistan, Khyber Pakhtunkhwa, Federally Administered Tribal Areas and Neighboring Areas (Pakistan) - Package 2 – Act. 1 "Study Visits to Italy for an overview of the Rural Development Context and learn from leading Institutions", Pakistan Poverty Alleviation Fund, Italian Ministry of Foreign Affairs (Nov. 2015).
 - xii. EU Project Lifelong Learning "NEAT-Networking to enhance the use of economics in animal health education, research and policy-making in Europe and beyond" (2013-2015);
 - xiii. Work Package Leader in the EU FP7-KBBE-2012-6-single-stage project n. 311972 - FUSIONS - Food Use for Social Innovation by Optimising waste prevention Strategies, coordinated by Wageningen University and Research Centre (2012-2014);
 - xiv. Responsible for the research project on the economic aspects of area-wide integrated control of tiger mosquito in Emilia-Romagna, Polo Scientifico Didattico di Forlì, Università di Bologna, Azienda Unità Sanitaria Locale di Cesena (2011-2012);
 - xv. "Feasibility study on the setting up of a platform for data and information exchange for the European fruit and vegetable market" (AGRI/2008-G4-01) European Commission, DG Agriculture and Rural Development (2008-2009);
 - xvi. "The Competition between food crops and non-food crops for energy: what are the effects on agricultural structures and the use of land" (IP/AGRI/FWC/2006-146-Lot02-C01-SC1), the European Parliament - DG for Internal Policies of the Union (2007-2008);
 - xvii. "Evaluation of the Set Aside Measure, 2000-2006" (AGRI/2006-G4-16), the European Commission - DG for Agriculture and Rural Development (2007-2008);
 - xviii. "Integration of the new Members States into the Common Agricultural Policy" (IPOL/B/AGRI/ST/2006-054), the European Parliament - DG for Internal Policies of the Union (2006-2007);
 - xix. IPTS-ESTO Research Project on "Structural Reform and Competitive Candidate Countries Agriculture in an Enlarged Europe, a Prospective Analysis", EU Commission Joint Research Centre Institute for Prospective Technological Studies -Seville and European Science and Technology Observatory, 2002-2004;
 - xx. Project Leader: Constructing a Centre for Agricultural Services in the Gorazde Canton - Bosnia and Herzegovina, project n. 2378/CEFA/BSN Italian Ministry of Foreign Affairs, 2000-2001;
 - xxi. FAO project GCP/002/BIH/ITA Inventory of Post-War Situation of Land Resources in Bosnia and Herzegovina (FAO-TCOC and AGSL Services), 1999;
 - xxii. Project Manager in the EU/Phare-Ace project P96-6020-R Reconstruction of Agrarian Systems in Transitional Economies, a Comparative Analysis of Albania and Bosnia and Herzegovina, 1997-1999;
 - xxiii. EU funded project Réseaux des Interdépendances Agro-Alimentaires dans la Méditerranée - RIDAAM 88/92, 1995-1997;

- xxiv. Réseau d'Etudes Maghrébines des Ressources Humaines (REMARH) EU MED CAMPUS Project n. C191 - La gestion des ressources humaines au Maghreb, 1995;
- xxv. Marginalisation, Specialisation and Cooperation in the Baltic and Mediterranean Regions - The Mediterranean Europe - MONITOR/FAST Programme - Theme B Continental Europe: Science, Technology, and Community Cohesion, 1991-1993;
- xxvi. Pilot Project on the use of ethanol from agricultural biomasses as anti-knock for car fuel, National Agricultural Academy of Bologna and Italian Ministry of Agriculture and Forestry, 1988;

Professional and scientific qualifications

- Professional Qualification as Agronomist (University of Bologna, May 1988);
- National Scientific Qualification as Full Professor in Agricultural Economics (Italian Ministry of Education, Universities and Research – November 2020).

Memberships

- Italian Professional Order of Agronomists (since 1988);
- Società Italiana di Economia Agraria-SIDEA (Italian Society of Agricultural Economics, associated with the European Association of Agricultural Economists – since 2009);
- International Society for Economics and Social Sciences of Animal Health - ISESSAH (since 2017);
- International Association of Agricultural Economists - IAAE (since 2017);
- Ecohealth International / Network for Ecohealth and One Health (since October 2018);
- Associazione Italiana di Economia Agraria e Applicata - AIEAA (Italian Association of Agricultural and Applied Economics, since February 2019).
- European Association of Agricultural Economists - EAAE (since October 2019)

