

Marta Antonelli, PhD

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Birth Date: 08/11/1984

Result-oriented senior leader with extensive international experience in leading food sustainability projects and programmes for businesses, academia and non-governmental organisations, and great passion for driving an acceleration towards sustainable development. Proven track record in delivering end-to-end projects by providing strategic leadership, managing key stakeholders, developing scientific outputs and guiding effective and science-based communication. Spokesperson in international conferences, with media, with policy makers. Author of 50+ publications. Successful leader of international and multidisciplinary teams.

Core skills and competences:

- Strategic thinking, planning and execution
- Stakeholder management
- Business development
- Scientific communication
- Spokesperson
- Team building and leadership

Scientific expertise:

- Water security, water policy
- Food security, food policy
- Sustainable and healthy diets
- Food waste
- Urban food policies
- Climate change

Professional Experience

European Commission

Member of the expert group for the development of a legislative framework for the EU Farm to Fork Strategy (March 2021-present)

Contribute to the scoping and development of a legislative framework for the EU Farm to Fork Strategy, to make food systems sustainable, healthy, resilient and inclusive.

Barilla Center for Food & Nutrition Foundation

Head of Research (2020-present)

Create research strategy and lead the execution of a wide portfolio of multidisciplinary projects with international partners. Establishing strategic partnerships. Overseeing communication and outreach (including International Forum on Food and Nutrition) and education programmes. Leading author of flagship reports and scientific publications. Lead direct team of 8 people in EMEA. Selected contribution:

- Leading and executing international projects, including:
 - “Fixing the Business of Food”, with the Santa Chiara Lab – University of Siena, United Nations Sustainable Development Solutions Network and the Columbia Center on Sustainable Investments (2018-ongoing); “Food Sustainability Index” with the Economist Intelligence Unit (2016-ongoing), presented at the EAT Forum and at World Economic Forum’s side events.
 - “100 questions on food systems, data and technologies” with The GovLab at New York University.
 - “Digitising Agrifood” with the Centre for European Policy Studies (CEPS).
- Supervised the development of the educational programme “We, food, our planet” (over 5.400 teachers in 4.100 schools in Italy, reaching over 270.000 students) endorsed by the Italian the Ministry of Education.

Su-eatable LIFE project (LIFE16 GIC/IT/000038)

Research Project Manager (2018-present)

Leading the execution of the experimental phase of the EU-funded project Su-Eatable Life “Reducing carbon emissions in the EU through sustainable diets” (>1.6 Million €), in 8 canteens in Italy and UK, targeting 59.000 students and 7.000 employees. Coordinating beneficiary: Barilla Foundation. Partners: Wageningen University and Research, Sustainable Restaurant Association.

Euro-Mediterranean Centre on Climate Change

Senior Research Associate, Impacts on Agriculture, Forests and Ecosystem Services (2017-present)

Conducting research on food sustainability, climate change mitigation, migrations. Author of scientific articles and other publications. Participation to scientific and dissemination events.

Venice International University

Research Fellow (2018-2019)

Led research project on decarbonisation and the role of business. Published policy paper as first author.

Eaternity AG, Zurich

Business Development Manager (2018)

Contributed to business development strategies of a digital application accounting for environmental impacts of food industry, for the Swiss and Italian market.

Barilla Center for Food & Nutrition Foundation

Research Programme Manager (2017 – 2019)

Developed research strategy and led the execution of research projects. Oversaw communication and outreach activities. Leading author of flagship reports and scientific publications. Led direct team of 6 people, distributed across the EMEA region.

Barilla Center for Food & Nutrition Foundation

Research Consultant (2014-2016)

Conducted research on sustainable diets and urban food policies. Authored reports and scientific articles.

University of Siena

Post-doc Research Fellow, Social Political and Cognitive Science (2017)

Conducted research on environmental, social and economic challenges of the agri-food sector in the Mediterranean region, within the Partnership for Research and Innovation (PRIMA), funded under Horizon 2020 initiative. Published report as first author and a scientific publication.

Swiss Federal Institute of Aquatic Science and Technology (EAWAG) in the ETH domain

Post-doc Research Fellow, Water Environment and Food Security (2016)

Conducted research virtual water trade in the EU and implications for water and agricultural policy. Developed a new methodology to assess grey water footprint. Worked with a multidisciplinary team. Published 3 peer-reviewed articles.

City University London

Visiting Research Fellow, Centre for Food Policy (2015)

Conducted research on urban food policies and sustainable diets.

Roma Tre University

Post-doc Research Fellow, Marketing & Business Economics (2015-2016)

Conducted research on food policy, sustainable diets, sustainable agriculture; supervised five BSc and MSc theses; published two scientific articles and two book chapters.

University IUAV of Venice

Post-doc Research Fellow, Political Economy and Economic Policy (2013-2015)

Principal investigator of research on large scale land acquisitions in the EU with Politecnico di Milano and ENEL Foundation. Published three scientific articles, three working papers and a policy brief. Organised international seminar series.

WWF-Italy

Scientific Advisor (volunteer) (2013-2014)

Published report on Italy's water footprint as leading author.

WASSERMed Project (EU-FP7)

Junior Researcher (2011-2013)

Conducted research on water security and virtual water trade in the Mediterranean area. Published two peer-reviewed articles and a report for the UN inter-agency. Coordinating beneficiary: Euro-Mediterranean Centre on Climate Change.

Education

Philosophical Doctorate (PhD) in Environment, Politics and Development, University of London, King's College London, Department of Geography

Master of Science in Development Studies, School of Oriental and African Studies (SOAS), University of London (with merit)

Master of Science in Economics, Development and International Cooperation, Sapienza, University of Rome (110 cum laude / 110)

Bachelor of Arts in Economics of International Cooperation and Development, Sapienza, University of Rome (with honours)

Additional experience

Lectures / seminars (2010-ongoing):

The Graduate Institute in Geneva, Basel University, University of Arizona, Thomson Reuters Foundation, University of Siena, Italian Alliance for Sustainable Development (ASviS), University of Siena, Gustolab - University of Illinois Urbana-Champaign, the University of Venice IUAV, University Roma Tre, King's College London.

Membership and service (ongoing):

- Member of **Refresh Working Group**: bringing together farmers, small business owners, researchers, corporate partners, nonprofit leaders, educators, community organizers, and innovators working across the food system to explore intersecting policy issues at the nexus of food and technology. The project is initially funded by Google and led by Swell Creative Group;
- Member of **CDBS Water Working Group**: uniting over 60 experts on water-related issues with diverse backgrounds, from corporate and investment backgrounds to academia and NGOs. The group supports the development of the CDSB Framework application guidance on water-related disclosure.
- **Reviewer for scientific journals**, such as Science of the Total Environment Advances in Water Resources, Water Research, Water Resources Research, Sustainability, Environmental Science and Pollution Research, PLOS, Water Policy, Agriculture.
- Topic editor for scientific journal **Foods**.
- **Managing guest editor** of special issues on Cities and Foods.

Publicist journalist (2008-ongoing)

With contributions published on The Guardian, The Diplomatic Courier, ES GLOBAL, FoodBev Media, HuffpostItalia, MIT Technology Review, The Brussels Times.

Fellowships, Scholarships and Awards:

- Su-eatable LIFE, LIFE16 GIC/IT/000038 (Sept. 2018-Aug 2021)
- Food Tank's 25 Food and Agriculture Leaders to Watch in 2019 (March 2019)
- Marie Skłodowska-Curie Actions Seal of Excellence (April 2017)
- Post-doctoral research fellowship, Eawag (March-Sept 2016), "Roma Tre" University of Rome (2015-2016), IUAV University of Venice (2014-2015)
- Finalists of the contest "Young Earth Solutions", Barilla Centre for Food and Nutrition (2013)
- Research fellowship, IUAV University of Venice (2013-2014)
- Small Bursaries Fund for Postgraduate Research (from 2011 to 2013), Small Grants Fund, Department of Geography (from 2010 to 2012), King's College London
- Scholar Abroad Award (2010-2011), International thesis scholarship (2008-2009), Departmental grants (from 2004 to 2008), Sapienza University of Rome
- Merit-based fellowships, ONAOSI Foundation (from 1995 to 2012)

Selected Publications

Special Issues:

Guest Editor of Special Issues on *Cities* (2021), "Healthy and sustainable urban food systems: perspectives, challenges and opportunities in the COVID-19 era" with Sonnino R. (University of Cardiff), Marino D. (University Roma Tre), Fattibene D. (Barilla Foundation), Mazzocchi G. (CREA).

Managing Guest Editor of Special Issues on *Foods* (2021), "Towards Sustainable Food Systems: Approaches and Strategies to Prevent and Reduce Food Loss and Waste" with C. Reynolds (City University London), A. Cattaneo (Food and Agriculture Organisation of the United Nations).

Peer reviewed:

Massari S., Principato L., Antonelli M., Pratesi C.A. (2021), Learning from and designing after pandemics. CEASE: A design thinking approach to maintaining food consumer behaviour and achieving zero waste, *Socio-Economic Planning Sciences*, 101143.

Petersson T., Secondi L., Magnani A., Antonelli M., Dembska K., Valentini R., Varotto A., Castaldi S. (2021), A multilevel carbon and water footprint dataset of food commodities, *Scientific Data*, 8, 127.

Fattibene D., Recanati R., Dembska K., Antonelli M. (2020), Urban food waste: a framework to analyse policies

and initiatives", *Resources*, 9(9), 99.

Cadel E., Massari S., Antonelli M. (2020), Food, education and research: Towards a sustainable future, *BioLaw Journal*, 2, pp.117-125.

Chen P.J., Antonelli M. (2020), Conceptual models of food choice: influential factors related to foods, individual differences, and society, *Foods*, 9(12), 1898.

Liu W., Antonelli M., Kumm M., Zhao X., Wu P., Liu J., Zhuo L., Yang H., (2019), Savings and losses of global water resources in food-related virtual water trade, *Wiley Interdisciplinary Reviews: Water*, 6(1).

Recanati F., Maughan C., Pedrotti M., Dembska K., Antonelli M. (2018), Assessing the role of CAP for more sustainable and healthier food systems in Europe: a literature review, *Science of the Total Environment*, 653, pp. 908-919.

Antonelli M., Tamea S., Yang H. (2017), Intra-EU agricultural trade, virtual water flows and policy implications, *Science of the Total Environment*, 1, pp. 439-448.

Liu W., Antonelli M., Xingcai L., and Yang H. (2017), Towards improvement of grey water footprint assessment: with an illustration for global maize cultivation, *Journal of Cleaner Production*, 147, pp. 1-9.

Antonelli M., and Sartori S. (2015), Unfolding the potential of the Virtual Water concept. What is still under debate?, *Environmental Science and Policy*, 50, pp. 240-251.

Antonelli M., and Ruini L.F. (2015), Business Engagement with Sustainable Water Resource Management through Water Footprint Accounting: The Case of the Barilla Company, *Sustainability*, 7(6), 6742-6758.

Antonelli M., Siciliano G., Turvani M. E., and Rulli M.C. (2015), Global investments in agricultural land and the role of the EU: drivers, scope and potential impacts, *Land Use Policy*, 47, pp. 98-111.

Antonelli M., and Tamea S. (2015), Food-water security and virtual water trade in the Middle East and North African region, *International Journal of Water Resources Development*, 31(3), pp. 326-342.

Gilmont M., Antonelli M., and Greco F. (2015), Opportunity costs of virtual water: a justification for green-water based agricultural capacity growth for economic, social and environmental sustainability, *The Italian Journal of Agrometeorology*.

Antonelli M., Gilmont M., and Roson R. (2013), Water's Green Economy: alternative pathways for water resource development in agriculture, *L'Europe en Formation*, 365, pp. 23-47.

Antonelli M., Roson R., Sartori M. (2012), Systemic Input-Output Computation of Green and Blue Virtual Water 'Flows'. With an illustration for the Mediterranean region, *Water Resources Management*, 26(14), pp.4133-4146.

Book chapters:

Tamea S., Antonelli M. (2021), The Water Footprint and Virtual Water Trade of Italy, in Turrini P., Pertile M., Massarutto A. (eds), *Water Law, Policy and Economics in Italy: Between National Autonomy and EU Law Constraints*, *Global Issue in Water Policy*, Springer (in press).

Massari S., Antonelli M., Principato L., Pratesi C.A. (2021). Design Thinking to Engage Consumers in Achieving Zero Waste Food Experiences: The CEASE Framework. In Batat W. (eds.), *Design Thinking for Food Well-Being. The Art of Designing Innovative Food Experiences*, Springer Nature.

Antonelli M., Bracco S., and Turvani M.E. (2020), The role of Corporate Social Responsibility and voluntary schemes in promoting responsible agricultural investments. An investigation of European large-scale land acquisitions, with a focus on Italy, in Gasparatos A., Hmed A., Naidoo M., Karanja A., Fukushi K., Saito O., Takeuchi K. (eds.), *Sustainability Challenges in Sub-Saharan Africa I, Continental Perspectives and Insights from Western and Central Africa*, Science for Sustainable Societies, Springer.

Antonelli M., Allan J.A. (2019), MENA water and food security since 1950: adaptation and economic diversification, in Puran M., Hakimian H. (eds.), *Environmental Challenges in the MENA Region: The Long Road from Conflict to Cooperation*, Gingkolibrary.

Caporaso L., Santini M., Noce S., de Sanctis A., Caracciolo L., Antonelli M. (2019), Drivers of migration in the Trans-Mediterranean region: the likely role of climate change and resource security in the geopolitical context, in Valentini R., Sievenpiper J., Antonelli M., Dembska K. (eds.), *Achieving the Sustainable Development Goals through Sustainable Food Systems*, Springer Nature.

Allievi F., Antonelli M., Dembska K., Principato L. (2019), Understanding Food Systems, in Valentini R., Sievenpiper J., Antonelli M., Dembska K. (eds.), *Achieving the Sustainable Development Goals through Sustainable Food Systems*, Food and Health, Springer Nature.

Allievi F., Antonelli M., Dentoni D., (2018), The Role of Youth in Increasing Awareness of Food Security and Sustainability, *Encyclopedia of Food Security and Sustainability*, 3: 3-44, Elsevier. Elsevier.

Antonelli M., Laio F., and Tamea S. (2017), Water resources, food security and the role of virtual water trade in the MENA region, in Behnassi M. (eds), *Environmental Change and Human Security in Africa and the Middle East*, Springer.

Antonelli M., and Corbo C. (2016), Country profile: Italy, in Visser W. (ed), *The World Guide to Sustainable Enterprise: A country-by-country analysis of responsible business and social entrepreneurship*, Greenleaf Publishing.

Antonelli M., Siciliano G., and Turvani M. E. (2015), La corsa globale alla terra. Il ruolo dell'Europa e le sfide per la sicurezza idrica, alimentare ed energetica, in Mascia M. e Tintori C. (eds), *Nutrire il pianeta? Per un'alimentazione sostenibile, giusta, conviviale*, Bruno Mondadori.

Antonelli M., and Greco F. (2015), Not all drops of water are the same, in Antonelli M., and Greco F. (eds), *The water we eat*, Springer, pp. 21-33.

Antonelli M. and Greco F. (2015), Aware Water Eaters: an Idea for Water Labelling, in Antonelli M., and Greco F. (eds), *The water we eat*, Springer, pp. 113-124.

Antonelli M., and Gilmont M. (2013), Analyse to optimise. Sustainable intensification of agricultural production through investment in integrated land and water management in Africa in Allan J.A., Keulertz M., Sojamo S., and Warner J., *Handbook of Land and Water Grabs in Africa. Foreign direct investment and food and water security*, IB Tauris, Abingdon, UK, pp. 403-415.

Antonelli M., and Greco F. (2012), Una nuova visione dello spreco d'acqua, in Segrè A., e Falasconi L. (eds), *Il libro blu dello spreco in Italia: l'acqua*, Edizioni Ambiente, Isola del Liri (FR), pp. 129-168.

Edited Books:

Antonelli M., Isernia P. [eds.] (2022), Food Security and Sustainability: The Role of Media in Linking Awareness, Knowledge and Action, Elsevier.

Valentini R., Sievenpiper J., Antonelli M., Demsbka K. [eds] (2019), *Achieving the Sustainable Development Goals through Sustainable Food Systems*, Springer Nature.

Antonelli M., and Greco F. [eds] (2015), *The water we eat*, Springer International Publishing.

Antonelli M., and Greco F. [eds] (2013), *L'acqua che mangiamo*, Edizioni Ambiente, Isola del Liri (FR).

Reports:

Antonelli M. (2021), "The Water-Food Nexus in the Mediterranean Region: Prospects and Challenges for Sustainability", in Dessì et al. [eds.], *Climate Change and Sustainability: Mediterranean Perspectives*, IAI Research Studies.

Marino D., Mazzocchi G., Tarra S., Fattibene D., Antonelli M. (2020), *Cibo, Città, Sostenibilità. Un tema strategico per l'Agenda 2030*, Alleanza Italiana per lo Sviluppo Sostenibile, position paper.

Rawe T., Antonelli M., Chatrchyan A., Clayton T., Fanzo J., Gonsalves J., Matthews A., Nierenberg D., Zurek M. (2019), Transforming food systems under climate change: Local to global policy as a catalyst for change, *CCAFS Working Paper*, 271. Wageningen, the Netherlands: CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). (4 citations, Google Scholar, 6 Sept 2020)

Antonelli M., Basile L., Gagliardi F., Riccaboni A., Isernia P. (2019), 2019 AgrifoodMed Delphi. Trends, challenges and policy options for Water Management, Farming Systems, and Agri-food Value Chains areas, *PRIMA Annual workplan* 2018.

Antonelli M., Mannino I., Fornetti A. (2019), Awareness and engagement of business and citizens to keep global warming below 1.5°C. A roadmap towards decarbonisation, *VIU papers* 13.19.

Bracco S., Antonelli M., and Turvani M.E. (2015), Foreign Investment in Land and Corporate Social Responsibility: An Investigation for Africa, *Responsible Natural Resource Economy Programme Issue Paper* 002/2015. Nairobi, Kenya: Acts Press. ISBN 9966-41-171-2.

Antonelli M., Greco F., Consalvo C., Sartori M., Tavernini S. (2015), The water footprint of Italy, WWF report, WWF-Italy, Rome.

Antonelli M., and Roson R. (2012), The transition to the green economy in the Mediterranean region: Water demand management and market efficiency, in Ardakanian R., and Jaeger D. (eds), *Water and the Green Economy: Capacity Development Aspects*, UN-Water report, UN-Water Decade Programme on Capacity Development, Bonn, pp. 1-12.

Conference papers and proceedings:

Principato L., Fattibene D., Antonelli M. (2020), Food loss and waste: cause, impacts and proposals in Europe, Reduction of Food Loss and Waste conference at the Pontifical Academy of Sciences, 11-12 November 2019.

Antonelli M., Castaldi S., Dembska K., Magnani A., Varotto A., Petersson T., Bouwman L. and Valentini R. (2019), Reducing carbon emissions through sustainable diet promotion in university and company's canteens: the SU-EATABLE LIFE project, conference Sustainable Food Systems = Sustainable Diets conference, Rome, 11 October 2019.

Castaldi S., Antonelli M., Dembska K., Magnani A., Varotto A., Petersson T., and Valentini R. (2018), SU-EATABLE LIFE project: Reducing carbon emissions and water use pressure through sustainable diets, conference The Science and the Future 2 "Contradictions and Challenges", Turin, 12-16 November 2018.

Antonelli M., and Allan J.A. (2016), MENA water and food security since 1950: adaptation and economic diversification, LMEI conference, School of Oriental and African Studies, University of London, London, 12-13 October 2016.

Antonelli M., Massari S., Pratesi C.A., Ruini L., Vannuzzi E. (2015), The transition towards sustainable diets. How can urban systems contribute to promoting more sustainable food practices? Conference Agriculture in an Urbanising Society, Roma Tre University, 14-17th September 2015.

Antonelli M., Gilmont M., and Greco F. (2012), A Development Pathway to Optimise Sustainability of Water Investment and Minimise Social Cost, conference Food Security in Dry Lands in Doha, 14-15th November 2012.

Other publications (selected):

Antonelli M. (2021), Three ways G20 countries can set an example ahead of the UN Food Systems Summit, The Brussels Times.

Antonelli M., Belay M., Buchner B., Nierenberg D., Pomodoro L., Riccardi G., Ricordi C., Salole G., Valentini R., Zamagni S. (2020), Resetting Food Systems from Farm to Fork. Barilla Foundation and Food Tank.

Antonelli M., Belay M., Buchner B., Nierenberg D., Pomodoro L., Riccardi G., Ricordi C., Salole G., Valentini R., Zamagni S. (2020), The time to fix global food systems is now. Barilla Foundation.

Antonelli M. (2020), Perspective on Food and Technology, *MIT Technology Review*.

Antonelli M., Galli A., Mailhes L., Wackernagel M. (2020), La COVID19 pone de relieve los desafíos del sistema alimentario, ES GLOBAL.

Antonelli M., Riccardi G., Valentini R. (2020), COVID-19: the imperative of a global food system transformation, The Guardian.

Antonelli M., Castaldi S., Valentini R. (2020), Cambiamento climatico e cibo, *Equilibri*, 1, Il Mulino.

Antonelli M., Cadel E., Massari S. (2020), Verso il 2030. Educare alla cittadinanza attiva attraverso la sostenibilità alimentare e ambientale, *Equilibri*, 1, Il Mulino.

Antonelli M., Dembska K., Castaldi S., Valentini R. (2019), La dieta per il futuro, *National Geographic Italia*.

Antonelli M., Dembska K., Castaldi S., Valentini R. (2019), Sustainable Diets for the future, Food Tank.

Selected Conferences & Media Contribution

- #G20 Environment Climate & Energy, organised by Future Food Institute, 22 July 2021.
- Policy Laboratory: Obesity and food system actions under the microscope, organised by the World Obesity Federation, 13 July 2021.
- Buono! Maker Faire Rome – The European Edition, 25 June 2021.
- 2021 Call for Code Global Action, organised by IBM Foundation,
- Biodiversity Week, organised by the European Central Bank, 26 May 2021.
- 2020 Food Business Summit Turkey, 22 October 2020.
- Slow Food Terra Madre, Lo Spazio delle Politiche Locali del Cibo: temi, esperienze, prospettive, organised by Rete Italiana Politiche Locali del Cibo, 21 October 2020.
- Sustainable Development Festival, Food & Cities, organised by the Italian Alliance on Sustainable Development (ASviS), 30 September 2020.
- Festival Francese 2020, Transizione verso lo sviluppo sostenibile: quale ruolo per i sistemi alimentari?, 25 September 2020.
- Public audition at the Agriculture Commission of the Chamber of Deputies of the Italian Parliament, 22 September 2020.
- Food Tank interview with Danielle Nierenberg, 10 September 2020.
- Scenari e prospettive delle imprese agroalimentari fra sostenibilità e innovazione, organised by the UN Sustainable Development Solutions Network, the Columbia Center on Sustainable Investments, Santa Chiara Lab of the University of Siena, BCFN, 22 July 2020.
- Food for the Earth 2020, organised by the Future Food Institute and the FAO e-learning Academy, 22 April 2020.
- High-level panel Investing in food systems transformation, Davos (Switzerland), Side event at the World Economic Forum, 22 January 2020.
- BCFN International Forum on Food and Nutrition, Milan (Italy), 28 December 2018. FAO-PRIMA Symposium, Food and Agriculture Organization of United Nations (FAO), Rome (Italy), 20 November 2018.
- Davos Breakfast Dovetailing Initiatives to track progress toward a new global food system, Davos (Switzerland), 25 January 2018.

- EAT Food Forum, Stockholm (Sweden), 12-13 June 2017. Oral presentation as invited delegate
- International Dialogue of the Global Alliance for the Future of Food, Gouvieux (France), 1-3 May 2017.
- TEDx Vicenza, Vicenza (Italy), 6 May 2017.

Media contribution (2015-2020): Video and radio interviews (Radio 24, Radio Tre, Rai Tre, Radio Radicale, Qui Finanza) and interviews (e.g. Inter Press Service, Food Tank, Marie Claire UK, Il Sole 24 Ore, Corriere della Sera, La Repubblica, La Stampa).

Languages

Italian: Native | English: full proficiency | Spanish: C1 | French: B1 | German: B1

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications, and my experience. I understand that any wilful misstatement described herein may lead to my disqualification or dismissal, if engaged. I authorise the use of my personal data in compliance with Italian Legislative Decree 196/03.

September 8, 2021

Signature

Marco Ambrosetti