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**PEER REVIEWED PUBLICATIONS (Google Scholar H-Index: 23)**

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- Petracca F, Ciani O, Cucciniello M, Tarricone R. Harnessing Digital Health Technologies During and After the COVID-19 Pandemic: Context Matters. *J Med Internet Res*. 2020 Dec 30;22(12):e21815. doi: 10.2196/21815.
- Daubner-Bendes R, Kovács S, Niewada M et al. (2020) Quo Vadis HTA for Medical Devices in Central and Eastern Europe? Recommendations to Address Methodological Challenges. *Front. Public Health* 8:612410. doi: 10.3389/fpubh.2020.612410
- Tarricone R, Ciani O, Torbica A, Brouwer W, Chaloutsos G, Drummond MF, Martelli N, Persson U, Leidl R, Levin L, Sampietro-Colom L, Taylor RS. Lifecycle evidence requirements for high-risk implantable medical devices: a European perspective. *Expert Rev Med Devices*. 2020 Oct 23:1-14. doi: 10.1080/17434440.2020.1825074.
- Tarricone R, Ciani O, D'Acunto S, Scalzo S. The rise of rules: Will the new EU regulation of medical devices make us safer? [published online ahead of print, 2020 Jul 20]. *Eur J Intern Med*. 2020;4574. doi:10.1016/j.ejim.2020.07.012
- Grigore B, Ciani O, Dams F, et al. Surrogate Endpoints in Health Technology Assessment: An International Review of Methodological Guidelines [published online ahead of print, 2020 Jun 23]. *Pharmacoeconomics*. 2020;10.1007/s40273-020-00935-1. doi:10.1007/s40273-020-00935-1
- Ciani O. Endpoint surrogati e politiche sanitarie: l'importanza di metodi di validazione adeguati. *Epidemiol Prev* 2020; 44 (1): 96-97. doi: <https://doi.org/10.19191/EP20.1.P096.022>
- Ciani O, Federici C, Fornaro G, Rognoni C. Value-Based Healthcare: Il nuovo approccio di AIFA alla determinazione multidimensionale del valore. *Global & Regional Health Technology Assessment*. 2020 7 (1), 9-13. <https://doi.org/10.33393/grhta.2020.2102>.
- Meregaglia M, Ciani O, Banks H, Salcher-Konrad M, Carney C, Jayawardana S, Williamson P, Fattore G. A scoping review of core outcome sets and their 'mapping' onto real-world data using prostate cancer as a case study. *BMC Med Res Methodol* 2020 Feb 27;20(1):41. doi: 10.1186/s12874-020-00928-w.
- Elia EG, Städler N, Ciani O, Taylor RS, Bujkiewicz S. Combining tumour response and progression free survival as surrogate endpoints for overall survival in advanced colorectal cancer. *Cancer Epidemiol*. 2020 Feb;64:101665. doi: 10.1016/j.canep.2019.101665. Epub 2020 Jan 5. PubMed PMID: 31911395.
- Papanikos T, Thompson JR, Abrams KR, Städler N, Ciani O, Taylor R, Bujkiewicz S. Bayesian hierarchical meta-analytic methods for modeling surrogate relationships that vary across treatment classes using aggregate data. *Stat Med*. 2020 Jan 28;. doi: 10.1002/sim.8465. [Epub ahead of print] PubMed PMID: 31990083.

- Ciani O, Federici CB. Value Lies in the Eye of the Patients: The Why, What, and How of Patient-Reported Outcomes Measures. *Clin Ther*. 2020 Jan 10;. doi: 10.1016/j.clinthera.2019.11.016. [Epub ahead of print] PubMed PMID: 31932079.
- Boscolo PR, Callea G, Ciani O, Tarricone R. Measuring Value in Health Care: A Comparative Analysis of Value-based Frameworks. *Clin Ther*. 2019 Dec 24;. doi: 10.1016/j.clinthera.2019.11.017. [Epub ahead of print] Review. PubMed PMID: 31882226.
- Taylor RS, Walker S, Ciani O, Warren F, Smart NA, Piepoli M, Davos CH. Exercise-based cardiac rehabilitation for chronic heart failure: the EXTRAMATCH II individual participant data meta-analysis. *Health Technol Assess*. 2019 May;23(25):1-98. doi: 10.3310/hta23250.
- Taylor RS, Walker S, Smart NA, Piepoli MF, Warren FC, Ciani O, Whellan D, O'Connor C, Keteyian SJ, Coats A, Davos CH, Dalal HM, Dracup K, Evangelista LS, Jolly K, Myers J, Nilsson BB, Passino C, Witham MD, Yeh GY; ExTraMATCH II Collaboration. Impact of Exercise Rehabilitation on Exercise Capacity and Quality-of-Life in Heart Failure: Individual Participant Meta-Analysis. *J Am Coll Cardiol*. 2019 Apr 2;73(12):1430-1443. doi: 10.1016/j.jacc.2018.12.072.
- Ciani O, Cucciniello M, Petracca F, Apolone G, Merlini G, Novello S, Pedrazzoli P, Zilembo N, Brogna C, Capelletto E, Garassino M, Nicod E, Tarricone R. The Lung Cancer App (LuCApp) study protocol: a randomised controlled trial to evaluate a mobile supportive care app for patients with metastatic lung cancer. *BMJ Open*. 2019 Feb 15;9(2):e025483. doi: 10.1136/bmjopen-2018-025483.
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- Taylor RS, Walker S, Smart NA, Piepoli MF, Warren FC, Ciani O, O'Connor C, Whellan D, Keteyian SJ et al. Impact of exercise-based rehabilitation in patients with heart failure (ExTraMATCH II) on mortality and hospitalisation: an individual-patient data meta-analysis of randomised trials. *Eur J Heart Fail*. 2018 Sep 26. doi: 10.1002/ejhf.1311
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- Polisena J, Castaldo R, Ciani O, Federici C, Borsci S, Ritrovato M, Clark D, Pecchia L. HTA Guidelines for Medical Devices: How can We Address the Gaps? The International Federation of Medical and Biological Engineering Perspective. *Int J Technol Assess Health Care* 2018 Jan;34(3):276-289. doi: 10.1017/S0266462318000314
- Ciani O, Piepoli M, Smart N, Uddin J, Walker S, Warren FC, Zwisler AD, Constantinos DH, Taylor RS. Validation of Exercise Capacity as a Surrogate Endpoint in Exercise-Based Rehabilitation for Heart Failure. A Meta-analysis of Randomized Controlled Trials. *JACC Heart Failure* 2018 Jul;6(7):596-604. doi: 10.1016/j.jchf.2018.03.017
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- Ciani O, Tarricone R, Torbica A. Diffusion and use of health technology assessment in policy making: what lessons for decentralised healthcare systems? *Health Policy*. 2012 Dec;108(2-3):194-202.
- Boscolo PR, Canobbio M, Ciani O. Hospital-based HTA: quale valore per la valutazione delle tecnologie nelle Aziende Sanitarie italiane? (English: Hospital-based HTA: does the assessment of health technologies matter?) *Management Control*, Suppl(2), 2012.
- Mota RE, Tarricone R, Ciani O, Bridges JF, Drummond M. Determinants of demand for total hip and knee arthroplasty: a systematic literature review. *BMC Health Serv Res*. 2012 Jul 30;12:225.
- Armeni P, Ciani O, Vella VA. Il settore dei dispositivi medici in Italia. L'impatto delle politiche pubbliche sulle performance delle imprese (English: The Italian market of medical devices: how public policies impact on companies' performance). *Azienda Pubblica*, 2012; 2:217-238.
- Ciani O, Taylor RS. A more evidence based approach to the use of surrogate end points in policy making. *BMJ*. 2011 Oct 25;343:d6498.
- Armeni P, Ciani O, Palla I, Pierotti F, Tarricone R, Turchetti G. PDTA per la Chirurgia bariatrica: l'esperienza di sei centri italiani (English: Clinical pathways for bariatric surgery: the experience of six Italian hospitals). *Mecosan*, 2011. 20 (79): p. 14.
- Armeni P, Cavallo C, Ciani O, Tarricone R, Vella VA. I dispositivi medici in Italia: un settore, tanti mercati (English: The Italian market of medical devices). *Mecosan*, 2010. 19(76): p. 23-40.
- Cavallo MC, Ciani O, Gugiatti A, Jommi C, Ruocco G, Tarricone R. La gestione dell'innovazione tecnologica in sanità: analisi e confronto di alcune politiche regionali in Italia. (English: Managing technological innovation in the Italian Healthcare system: a comparative analysis of regional policies) *Mecosan*, 2010. 19(74): p. 37-65.
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- Ciani O, Piccini L, Parini S, Rullo A, Bagnoli F, Marti P, Andreoni G. Pervasive technology in Neonatal Intensive Care Unit: a prototype for newborns unobtrusive monitoring. *Conf Proc IEEE Eng Med Biol Soc* 2008:1292-5.

## BOOK CHAPTERS

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- Ciani O, Federici C. Introduction to economic evaluation and health technology assessment. In: Iadanza E. (Ed.) Clinical Engineering Handbook, 2020, London, Elsevier Inc.
- Polisenia J, Williams D, Ciani O. Health technology assessment of medical devices. In: Iadanza E. (Ed.) Clinical Engineering Handbook, 2020, London, Elsevier Inc.
- Ciani O, Federici C, Furnari A, Tarricone R. Esiti di salute e performance del Servizio Sanitario Nazionale (English: Health outcomes and performance of the Italian NHS) In: CERGAS Bocconi (a cura di) Rapporto OASI 2019, Milano, Egea.
- Armeni P, Borsoi L, Callea G, Cavallo C, Ciani O, Costa F, Federici C, Tarricone R, Torbica A. Dinamiche economiche e performance del settore dei dispositivi medici in Italia (English: Economic trend and performance of the Medical Device Sector in Italy) In: CERGAS Bocconi (a cura di) Rapporto OASI 2019, Milano, Egea.
- Armeni P, Boscolo PR, Callea G, Cavallo C, Costa F, Ghislandi S, Ciani O, Tarricone R, Torbica A. Prezzi di riferimento per dispositivi medici: criticità, vantaggi e approcci. (English: Reference pricing for medical devices: challenges, advantages and approaches) In: CERGAS Bocconi (a cura di) Rapporto OASI 2018, Milano, Egea.
- Ciani O, Federici C, Furnari A, Tarricone R. Gli esiti di salute del Servizio Sanitario Nazionale (English: Health outcomes in the Italian NHS) In: CERGAS Bocconi (a cura di) Rapporto OASI 2018, Milano, Egea.
- Boscolo PR, Ciani O, Federici C, Furnari A, Tarricone R. Gli esiti di salute del Servizio Sanitario Nazionale (English: Health outcomes in the Italian NHS) In: CERGAS Bocconi (a cura di) Rapporto OASI 2017, Milano, Egea.
- Tarricone R, Ciani O, Amatucci F, Armeni P, Borsoi L, Callea G, Costa F, Federici C, Torbica A. Programma nazionale HTA per dispositivi medici: prove tecniche di implementazione (English: The implementation of the National HTA program for medical devices) In: CERGAS Bocconi (a cura di) Rapporto OASI 2017, Milano, Egea.
- Ciani O, Taylor RS. Health Technology Assessment, In: Wiley StatsRef: Statistics Reference Online, 2017 doi: 10.1002/9781118445112.stat07941
- Ciani O, Torbica A. Myth #5: Healthcare Is Rightly Left to the Private Sector, for the Sake of Efficiency In: Adinolfi P, Borgonovi E (Eds.) The Myths of Health Care, Springer International Publishing AG, 2017
- Ciani O, Tarricone R, Torbica A. Programma nazionale HTA per dispositivi medici: quali sfide per l'implementazione? (English: National HTA program for medical devices: the challenge of the implementation) In: CERGAS Bocconi (a cura di) Rapporto OASI 2016, Milano, Egea.
- Boscolo PR, Ciani O, Tarricone R, Torbica A. La funzione di HTA nelle aziende sanitarie italiane: un potenziale ancora inutilizzato? (English: Hospital-based HTA: a potential to exploit?) In: CERGAS Bocconi (a cura di) Rapporto OASI 2015, Milano, Egea.

- Ciani O, Tarricone R, Taylor RS. Comparing Drug and Non-Drug Technologies in Comparative Effectiveness Research. In: Sobolev B. (editor) Handbook of Health Services Research, Springer Science+Business Media New York 2015
- Boscolo PR, Canobbio M, Ciani O. La dimensione del settore dei dispositivi medici (English: How big is the medical devices market?). In: Tarricone R (a cura di) Politiche per la salute e scelte aziendali. Impatto sull'innovazione e diffusione delle tecnologie mediche (English: Health policy and trusts' choices. The impact on innovation and diffusion of health technologies). 2012, Milano, Egea.
- Boscolo PR, Ciani O, Torbica A. I processi di valutazione dei dispositivi medici e delle tecnologie sanitarie (English: The assessment of health technologies). In: Tarricone R (a cura di) Politiche per la salute e scelte aziendali. Impatto sull'innovazione e diffusione delle tecnologie mediche (English: Health policy and trusts' choices. The impact on innovation and diffusion of health technologies). 2012, Milano, Egea.
- Ciani O, Tarricone R. L'Health Technology Assessment in Italia. Una questione nazionale o regionale? (English: HTA in Italy, a national or regional issue?) 2010, Milano, Economia Sanitaria Publisher.
- Piccini L, Ciani O, Andreoni G. New Emerging Biomedical Technologies for Home-care and Telemedicine Applications: the Sensorwear Project. In: Campora D., editor. New Developments in Biomedical Engineering. 2010 InTech.

## WORK EXPERIENCE

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Jan 2018 – Current	<b>SDA Bocconi Associate Professor of Practice</b> in Health Economics & HTA, Government, Health & Not-for-profit Division, Milan (IT)
Nov 2014 – Dec 2020	<b>Research Fellow</b> , University of Exeter Medical School, Exeter (UK) and contracted Research Fellow at Centre for Research on Health and Social Care Management (CERGAS), Bocconi University, Milan (IT)
Nov 2014 – Current	<b>Contracted Lecturer</b> on “Issues in Public Health” and “Epidemiology” modules at Master of International Health Care Management, Economics and Politics, SDA Bocconi, Milan (IT)
Jan 2017 – Dec 2018	<b>Lead for Clinical Trials Module</b> in the MSc in Applied Health Services Research at the University of Exeter Medical School, Exeter (UK)
Mar 2014 – Dec 2015	<b>Researcher</b> on the EU FP7 Mapping_NCD, at Centre for Research on Health and Social Care Management (CERGAS), Bocconi University, Milan (IT)
Jan 2013 – Dec 2015	<b>Researcher</b> on the EU FP7 MedtechHTA, University of Exeter Medical School, Exeter (UK)
Nov 2009 – Feb 2011	<b>Teaching assistant</b> in Business Government Relations, Public Management and Public Administration, Dept. of Policy Analysis and Public Management, Bocconi University, Milan (IT)
Nov 2009 – Feb 2011	<b>Research Fellow</b> at Centre for Research on Health and Social Care Management (CERGAS), Bocconi University, Milan (IT)
May 2008 – Sep 2008	<b>Research assistant</b> at Politecnico di Milano, Milan (IT)
Oct 2007 – Mar 2008	<b>Research assistant</b> at Università degli Studi di Siena, Siena (IT)

## EDUCATION

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Mar 2011- May 2014	<b>PhD in Health Services Research</b>
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- Peninsula Technology Assessment Group (PenTAG)  
 Institute of Health Research  
 University of Exeter Medical School  
 University of Exeter (UK)  
 Thesis: “Issues around the use of surrogate outcomes in Health Technology Assessment”
- Jan 2009 – Mar 2010 **MSc, Healthcare Economics and Management**  
 SDA Bocconi (IT)  
 Final grade: *110/110 summa cum laudae*  
 Master thesis: “Clinical pathways for bariatric surgery: the experience at six Italian hospitals”
- Oct 2005 - Apr 2008 **MSc, Bioengineering**  
 Politecnico di Milano (IT)  
 Final grade: *110/110 summa cum laudae*  
 Master thesis: “Pervasive technology in the Neonatal Intensive Care Unit: design and development of a prototype for the unobtrusive monitoring of newborns”
- Sep 2002 - Sep 2005 **BSc, Bioengineering**  
 Politecnico di Milano (IT)  
 Final grade: *110/110 summa cum laudae*  
 Final thesis: “Design of a portable system for bio-signals detection and wireless transmission.”

## **AWARDS and QUALIFICATION**

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- Fulbright Research Scholar 2020 at Yale School of Medicine and Yale School of Public Health
  - Senior consulting expert for the Italian National Agency for Healthcare System on i) Research and International Relationships and ii) Clinical, Organisational, Epidemiological and Social issues, June 2017
  - Egon Jonsson Award 2016, HTAi Annual Conference, Tokyo, May 2016
  - Targa Vivisalute Award 2015, Milan, October 2015
  - Outstanding impact in Health and Wellbeing at the Exeter Impact Award Event, December 2013
  - Best Student Podium Presentation Award at the 16th ISPOR Annual European Meeting, Dublin, November 2013
  - Highly Commended Research Award at the UEMS Research Showcase, Exeter, January 2013
  - Young Researchers Award at 15th AIES (Italian Association of Health Economics) Conference, 1st October 2010
  - Master’s thesis award by ‘Comitato Pari Opportunità’ (Gender Equality Committee) at Politecnico di Milano, April 2009
  - Chartered Professional Engineer, September 2008
- Best Student Award in Biomedical Engineering at Politecnico di Milano, A.Y. 2007-2008

## **MEMBERSHIP & Other academic activities**

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AIES (Italian Association of Health Economists)  
 AIIC (Italian Association of Clinical Engineers)  
 HTAi (Health Technology Assessment International)  
 ISPOR (International Society for Pharmacoeconomics and Outcomes Research)  
 IFMBE HTAD (International Federation for Medical and Biological Engineering - HTA Division)  
 Member of the Editorial Board of OASI (Observatory on Italian Healthcare Trusts)  
 ISPOR Europe 2020 Research Review Committee  
 Reviewer for several international scientific journals and conferences.



## **LANGUAGE SKILLS**

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**Italian:** native tongue, **English:** fluent, **French, German:** basic knowledge

## **COMPUTER SKILLS**

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STATA, MatLab, NVivo, Endnote, Microsoft Office  
in Mac OS and Windows environment

## **Other interests**

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Wine&Haute Cuisine, Literature, Travels