

# Curriculum Vitae

## Personal details

Name: Paolo Pertile  
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Marital status: married; two children

## Current Position

Associate Professor, University of Verona, Department of Economics (*Abilitazione Scientifica Nazionale* for full professor; SSD SECS-P03).  
Teaching: "Public Economics" (BA, coordinator); "Health and Environmental Economics" (MSc, coordinator); "Project Financing and Evaluation".

## Research Interests

Economic implications of health care regulation (payment rules, competition), Economic evaluation of health care interventions (methodology and applications), Economic implications of public sector intervention over the life-cycle.

## Education

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| 2003-2007 | Ph.D; Catholic University (Milan, Italy) "Graduate School in the Economics and Finance of Public Administration"<br>Thesis: "Investment in health technologies: a real option approach".  |
| 2003      | University of York (Uk). MSc. in "Public Economics".<br>Dissertation: "The balance between specific and ad valorem taxes".  |
| 1997-2001 | Bachelor in "Economics and Business" ( <i>summa cum laude</i> ). University of Verona (Italy).<br>Dissertation: "Public Debt and deficits in the European Monetary Union: a retrospective analysis of the implications of the new rules". |

## Other courses:

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| 2017-2018 | <i>English as a medium of instruction</i> , Cambridge Assessment English (online). |
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- 03-2010 IRVAPP Spring School: "Fundamentals and Methods for impact Evaluation of Public Policies". Trento 1-6 March.
- 2005 International Phd Programme in Health Economics; the Network of Swiss Universities; courses attended: "Econometrics for Health Economics", "Applied Econometrics for Health Economics", "Applied Welfare Analysis".

### **Participation in research projects**

*Projects funded by the Italian Ministry of Education and EU:*

- 2019- National Institute of Health Research (UK): "Value-based Adaptive Clinical Trial Designs for Efficient Delivery of NIHR research". Role: participant.
- 2017-2019 "Bando di Ateneo per la Ricerca di Base" (University of Verona): "Efficient and Equitable Regulation for health care Innovation: theory and evidence". Role: principal investigator.
- 2017-2019- University of Verona: "Evaluating costs and performance of Italian University Hospitals: the impact of research and teaching activities". Role: principal investigator.
- 2013-2016 VII Framework Programme; Programme for research, technological development and demonstration; Grant Agreement no 602552: "Integrated design and analysis of small population group trials" (IDEAL). Role: member of the External Advisory Board.
- 2008- FIRB (Italian Ministry of Education): "Family formation, life patterns and public policies: new schemes for the investigation of redistributive impacts and risk protection". Role: participant.
- 2007 PRIN (Italian Ministry of Education): "Market regulation, health care expenditure growth and funding". Role: participant.

### **Publications**

*On peer-reviewed journals:*

"The impact of Managed Entry Agreements on pharmaceutical prices"; *Health Economics; forthcoming* (with S Gamba and S. Vogler).

"Which value-based price when patients are heterogeneous"; *Health Economics; 2020; vol 29, pp. 923-935.* (with R. Levaggi).

"Value-Based Pricing Alternatives for Personalised Drugs: Implications of Asymmetric Information and Competition"; *Applied Health Economics and Health Policy*; 2020; vol 18, pp. 357-362. (with R. Levaggi).

"Job Sick Leave: Detecting Opportunistic Behavior"; *Health Economics*; 2019; vol 28 (3), pp. 373-386 (con C.A Biscardo e A. Bucciol).

"A Bayesian Decision-Theoretic Model of Sequential Experimentation with Delayed Response"; *Journal of the Royal Statistical Society Series B*; 2017; vol 79 (5), pp. 1439-1462 (with S. Chick and M. Forster).

"The dynamics of pharmaceutical regulation and R&D investments" *Journal of Public Economic Theory*; 2017; vol 19 (1), pp. 121-141, (with R. Levaggi and M. Moretto).

"A Large Scale OLG Model for the Analysis of the Redistributive Effects of Policy Reforms"; *European Journal of Political Economy*; 2017; vol 48 (C), pp. 104-127 (with A. Bucciol, L. Cavalli, I. Fedotenkov, V. Polin, N.Sartor, A. Sommacal).

"Late-Stage Pharmaceutical R&D and Pricing Policies under Two-Stage Regulation"; *Journal of Health Economics*; 2016; vol 50, pp. 298-311 (with S. Jobjornsson, M. Forster, C.-F. Burman)

"Redistribution at the Local Level: The Case of Public Childcare in Italy"; *International Review of Economics*; 2016; vol 63 (4), pp. 359-378 (with A. Bucciol, L. Cavalli, V. Polin, A. Sommacal)

"Is chest x-ray screening for lung cancer in smokers cost-effective? Evidence from a population-based study in Italy" *Cost Effectiveness and Resource Allocation*; 2015, vol. 13, pp. 1-12 (with A. Poli, L. Dominioni, N. Rotolo, E. Nardecchia, M. Castiglioni, M. Paolucci, W. Mantovani, A. Imperatori).

"The fiscal disadvantage of young Italians: a new view on consolidation and fairness." *The Journal of Economic Inequality*; 2015, vol. 13 (1), pp. 27-51 (with V. Polin, P. Rizza and M. Romanelli).

"Optimal Bayesian sequential sampling rules for the economic evaluation of health technologies." *Journal of the Royal Statistical Society: Series A (Statistics in Society)*, 2014; vol 177 (2), pp. 419-438 (with Martin Forster, and Davide La Torre)

"Two-part payments for the reimbursement of investments in health technologies", *Health Policy*, 2014; vol. 115 (2), pp. 230-236 (with R. Levaggi e M. Moretto).

"Optimal Decision Rules for HTA Under Uncertainty: a Wider, Dynamic Perspective", *Health Economics*, 2013; vol. 22, issue 12, pp. 1507-1514 (with M. Forster).

"Static and dynamic efficiency of irreversible health care investments under alternative payment rules"; *Journal of Health Economics*, 2012, vol. 31, n. 1, pp. 169-179 (with R. Levaggi and M. Moretto).

“An extension of the real option approach to the evaluation of health care technologies: the case of Positron Emission Tomography”; *International Journal of Health Care Finance and Economics*, 2009, vol. 9, pp. 317-332.

“The timing of adoption of Positron Emission Tomography: a real option approach”; *Health Care Management Science*, ; 2009, vol. 12 , n. 3, pp. 217-227 (with E. Torri, L. Flor and S. Tardivo).

“Investment in health care technologies in a competitive model with real options”; 2008, *Journal of Public Economic Theory*, 10 (5), 923-952.

“Technology adoption, quality and health care costs: a review of the literature” in *Studi Economici*, 2006, 90.

#### *Chapters in books:*

“Drug Prices and Incentives to Innovation by the Pharmaceutical Industry.” *Pharmaceutical Prices in the 21st Century*. Springer International Publishing, 2015. 389-401 (with R. Levaggi).

“L’equità intergenerazionale delle politiche di bilancio” in “Generazioni disuguali” A. Schizzerotto, U. Trivellato, N. Sartor (eds.) Il Mulino, 2011 (with V. Polin, P. Rizza, M. Romanelli).

#### *Working papers:*

“R&D and market size: who benefits from orphan drug regulation?”, Working Papers, University of Verona, Department of Economics; 2019; n. 09 (with S. Gamba e L. Magazzini).

“Free-Riding in Pharmaceutical Price Regulation: Theory and Evidence”, Discussion Papers in Economics, University of York; 2018; n. 04 (with S. Gamba e M. Forster).

“Pricing policies when patients are heterogeneous: a welfare analysis”, N. 17/2016, Working Papers, University of Verona, Department of Economics, 2016 (with R. Levaggi).

“Late-Stage Pharmaceutical R&D and Pricing Policies under Two-Stage Regulation”, Discussion Papers, Department of Economics, University of York, 2015 (with S. Jobjornsson, M. Forster, and CF Burman)

“A Bayesian Decision-Theoretic Model of Sequential Experimentation with Delayed Response”; No. 15-09. Discussion Papers, University of York, Department of Economics, 2015 (with S. Chick and M. Forster).

“Who should monitor job sick leave?”. N. 18/2015. Working Papers, University of Verona, Department of Economics, 2015 (with C.A. Biscardo and A. Buccioli).

"A large scale OLG model for France, Italy and Sweden: assessing the interpersonal and intrapersonal redistributive effects of public policies", No. 7/2014. Working Papers, University of Verona, Department of Economics, 2014 (with A. Bucciol, L. Cavalli, I. Fedotenkov, V. Polin, A. Sommacal)

"DRGs: the link between investment in technologies and appropriateness", No 31/2012, Working Papers, University of Verona, Department of Economics (with R. Levaggi and M. Moretto)

"Dynamic, economic approaches to HTA under uncertainty", No 03/2011, Working Papers, University of Verona, Department of Economics (with M. Forster)

"Optimal sequential sampling rules for the economic evaluation of health technologies", Discussion Papers, Department of Economics, University of York, 2010 (with M. Forster, D. La Torre)

"Static and dynamic efficiency of irreversible health care investments under alternative payment rules"; *Working paper 2010.130 Fondazione Enrico Mattei* (with R. Levaggi e M. Moretto).

"Corporate taxation and cross-country competition". Available at: <http://ssrn.com/abstract=1008257>

#### **Referee for:**

*"Journal of Economics & Management Strategy", "Journal of the Royal Statistical Society: series B", "Journal of Health Economics", "Journal of Economic Behavior and Organization", "Journal of Economics", "Journal of Economic Psychology", "Health Policy", "International Journal of Health Economics and Management", "European Journal of Health Economics", "Value in Health", "Health Care Management Science", "Economics Bulletin", "Applied Health Economics and Health Policy", "Health Care Services Research", "Social Justice Research", "Economia Politica", "Economia Pubblica", "Politiche Sanitarie".*

**Member of Editorial board:** "Pharmacoeconomics - open"

#### **Previous Experience**

##### *Research:*

08/2008-01/2009 Post-Doc, University of Bologna, Department of Economics. Research project: "Health Economics: contracts, procurement and innovation".

2007 Post-doc; University of Verona. Department of Law and Economics. Research project: *Economic evaluation and regulation of investments in health care technologies.*

##### *Teaching:*

2017 Summer school in "Applied Health Econometrics and Health Policy". Università di Bergamo.

2011-2016            Master in Economia e Management della Sanità (E.Ma.S);  
Università Ca' Foscari Venezia; docenza nell'ambito del  
modulo "Economia sanitaria e politiche sociosanitarie".

Lecturer: Summer school in "Applied Health Econometrics and Health Policy".  
University of Bergamo (2017-2019); Master in "Health Economics and  
Management", University Ca' Foscari, Venice (2011-2016), *Cost Benefit  
Analysis*; University of Verona (2006/2008; course coordinator); *Applied  
Economics* (2005; course coordinator);

Teaching fellow: *Environmental Economics*, University of Padova (2007);  
*Investment Evaluation*, University of Padova (2007); *Public Finance*, University  
of Milan (2005/2007).

*Other:*

2017- present        Member of the "Diabetes Technical Board" - Veneto  
Region.

2014-present        Member of "Innovative Cancer Drugs Group" of the  
Veneto Cancer Network (Rete Oncologica Veneta)

2012-2015            Member of the technical committee of Veneto Region for  
decisions on the pharmaceutical reimbursement.

11-2001/02-2002    Italian Embassy in Bratislava (Slovak Republic). Field of  
employment: economic relationships and European Union  
programmes towards countries candidate to  
membership.

### **Grants/awards**

2015                    William Pierskalla Runner-up Award for the paper "A  
Bayesian Decision-Theoretic Model of Sequential  
Experimentation with Delayed Response" (with S. Chick  
and M. Forster) of The Health Applications Society.  
Philadelphia.

2007                    AIES (Italian Health Economics Association) "Young  
researchers" prize. Paper: "An extension of the real  
option approach to the evaluation of health care  
technologies: the case of Positron Emission  
Tomography".

2003-2006            Doctoral Scholarship; "Graduate School in the Economics  
and Finance of Public Administration"; Milan.

- 2002 Zanotto Foundation scholarship to attend the M.Sc. in Public Economics at the University of York,
- 2001 Best graduation thesis on Public Finance of the year (University of Verona)
- 2001 Best student (University of Verona; BA in Economics and Business).

**Presentations at conferences and seminars (last 5 years)**

- 13/14-09-2019 1st APHEC workshop "Sustaining innovation, containing costs and providing equity in health care, Genova.
- 13/14-06-2019 18° Journées Gérard-Varet international conference on Public Economics. Aix-en-Provence.
- 15/16-02-2019 X meeting of the Network on the Economics of Regulation and Institutions (NERI). Roma.
- 25/27-10-2018 59<sup>th</sup> annual conference "Scientifica Annuale della Società Italiana degli Economisti". Bologna.
- 11/14-07-2018 12a European Conference on Health Economics, Maastricht.
- 28/29-06-2018 American-European Health Economics Study Group. Harvard University. Boston (MA).
- 05/06-10-2017 22<sup>nd</sup> AIES (Italian Health Economics Association) Annual Meeting. Pavia.
- 21/22-09-2017 XXIX Conference of Italian Public Economics Association (SIEP). Catania.
- 31-08/01-09-2017 44<sup>th</sup> Conference of the "European Association for Research in Industrial Economics (EARIE)". Maastricht.
- 19/20-05-2017 18<sup>th</sup> European Health Economics Workshop. Oslo.
- 03/04-11-2016 21<sup>st</sup> AIES (Italian Health Economics Association) Annual Meeting. Venice.
- 13/16-07-2016 EuHea Conference (previously known as "European Conference on Health Economics"). Hamburg.
- 13/14-05-2016 17<sup>th</sup> European Health Economics Workshop. Hamburg.
- 15/16-10-2015 20<sup>th</sup> AIES (Italian Health Economics Association) Annual Meeting. Alghero.
- 28/29-05-2015 16<sup>th</sup> European Health Economics Workshop. Toulouse.
- 27/28-10-2014 20<sup>th</sup> AIES (Italian Health Economics Association) Annual Meeting. Venice.
- 14/17-07-2014 10<sup>th</sup> iHEA Congress (International Health Economics Association). Dublin.

- 22/23-11-2013 19<sup>th</sup> AIES (Italian Health Economics Association) Annual Meeting. Trento.
- 26/27-09-2013 XXV Conference of Italian Public Economics Association (SIEP). Pavia.
- 26/28-06-2013 12<sup>th</sup> Journées Louis-André Gérard-Varet. Aix-en-Provence.

Other invited seminar presentations held at the universities of Göttingen, Milan (Catholic University), Padova, Verona and Brescia.