

## Ottar Mæstad

Current position:	Research Professor / Special Adviser, Director Development Learning Lab Economist	E-mail:	ottar.maestad@cmi.no
Born:	1967	Phone:	
Citizenship:	Norwegian	Address:	CMI - Chr. Michelsen Institute P.O.Box 6033 N-5892 Bergen, Norway

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### *Key Qualifications*

Mæstad is the Director of [Development Learning Lab](#), a research and learning centre working with practitioners to enhance learning and improve the results of development cooperation.

Mæstad was the Director of CMI from 2010 to 2022. He is an economist with research background in global health as well as in areas such as environment and energy, climate policy, and international trade. He initiated the global health research programme at CMI, and his research in this area focussed on health service delivery - human resources, quality of health care, governance in the health sector, results-based financing, vaccination coverage – as well as adolescent health / early marriage.

Mæstad has wide experience from research, research management, and policy analysis. He has led a number of research projects for clients such as the Research Council of Norway, Norwegian Ministry of Foreign Affairs, Norad, the World Bank, the Hewlett Foundation, Statoil, the Norwegian Shipowners Association, and others.

Member of the Board of Norwegian Church Aid since 2014.

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### *Education*

**Special Student** Department of Economics, Harvard University. 08/1992-06/1993

**Dr. oecon degree(Ph.D.)** Department of Economics, Norwegian School of Economics and Business Administration (NHH). 08/1991-09/1995  
Title of thesis: Essays on Trade and the Environment

**"Siviløkonom HAS" degree** Department of Economics, Norwegian School of Economics and Business Administration (NHH). 08/1989-08/1991  
Two year graduate programme in economics and business administration

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### *Professional Experience*

**Chr Michelsen Institute (CMI)**  
Research Professor / Special Adviser 4/2022-

**Chr. Michelsen Institute (CMI)**

Director 4/2010-3/2022

Research Director 10/2009-3/2010

Senior Researcher 11/2004-9/2009

**Institute for Research in Economics and Business Administration (SNF)**

Senior researcher 12/2003-10/2004

Researcher 01/1996-11/2003

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**Language Skills**

	<i>Speaking skills:</i>	<i>Reading skills:</i>	<i>Writing skills:</i>
English	excellent	excellent	excellent

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**Other Functions and Engagements**

2001-2003: Member of the Advisory Board on Results in Development Policy, Norwegian Ministry of Foreign Affairs.

2006-2015: Board member (and vice-chair) of the Norwegian Forum for Global Health Research

2011-18: Member of Advisory Group of RESYST (DFID-funded research consortium based at London School of Hygiene and Tropical Medicine)

2013-: Board member, Centre of Intervention Science in Maternal and Child Health (CISMAC)

2014-: Board member, Norwegian Church Aid

2014-: Member of Scientific Advisory Board, Centre for International Health, University of Bergen

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**Project Experience**

Tanzania	<b>Performance-based financing of health services in Tanzania</b> Project leader 2014 - 2020 The project studies effects of the implementation of performance-based financing in the health sector in Pwani and Mwanza region in Tanzania. GLOBVAC, Norwegian Research Council
Zambia	<b>RISE - Research Initiative to Support the Empowerment of girls</b> Team member 2014 - 2022 This randomized controlled trial measures the effect of two interventions to reduce early childbearing. Research Council of Norway - CISMAC
Tanzania	<b>Health Worker Motivation, Availability and Performance (MAP)</b> Project leader 2006 - 2010 Research Council of Norway
Tanzania	<b>Impact evaluation of results-based financing in the health sector in Tanzania</b> Member 2011 - 2013 NORAD

Ghana, Zambia, Rwanda, Tanzania	<b>Productivity of health workers</b> Project leader 2008 World Bank
Tanzania	<b>Performance based funding of the health sector in Tanzania</b> Project leader 2007 NORAD
Angola	<b>Health, Poverty and Public Expenditure</b> Project leader 2009 - 2010 Norwegian Embassy Angola
Malawi, India	<b>MEDIC - Multidisciplinary approach to explaining differential immunization coverage</b> Member 2008 - 2011 Research Council of Norway
Costa Rica, Argentina, Brazil, South Africa, Nigeria, Bangladesh, India	<b>Litigating the Right to Health</b> Project member 2008 - 2010 Research Council of Norway (GLOBVAC) (Right to health through litigation? Can court enforced health
Tanzania, Nepal	<b>Global Health and Development</b> Project leader 2006 - 2009
Sub Saharan Africa	<b>World Bank Trust Fund on Human Resources for Health</b> Project leader 2006 NORAD
Tanzania	<b>Human resources for health in Tanzania</b> Project leader 2005 - 2006 NORAD
Southern Africa	<b>Health worker crisis in Africa - a case for exceptionality?</b> Project leader 2005 NORAD
Ethiopia, Tanzania, Uganda.	<b>Priority setting in global health</b> Project leader 2005 - 2009 Research Council of Norway
Tanzania	<b>Haydom Hospital - final project review</b> Project leader 2009 Royal Norwegian Embassy, Tanzania
Tanzania, Senegal	<b>Service Delivery Indicators: a pilot</b> Member 2010 African Economic Research Consortium / World Bank
	<b>Service Delivery Indicators - Scale up ]</b> Project leader 2013 - 2014 Hewlett Foundation

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## Selected Publications

### Articles in international journals

1. Borghi J, Binyaruka P, Mayumana I, Lange S, Somville V, Mæstad O (2021) "Long term effects of payment for performance on maternal and child health outcomes– evidence from Tanzania", *BMJ Global Health* 2021;6:e006409. <http://dx.doi.org/10.1136/bmjgh-2021-006409>.
2. Bezu, S. P. Binyaruka, O. Mæstad, and V. Somville (2021) "Pay-for-performance reduces bypassing of health facilities: Evidence from Tanzania. *Social Science and Medicine* 268:113551. <https://doi.org/10.1016/j.socscimed.2020.113551>.
3. Sandøy, I. F., M. Mudenda, J. Zulu, E. Munsaka, A. Blystad, M. Makasa, O. Mæstad, B. Tungodden, C. Jakobs, L. M. Kampata, K. Fylkesnes, J. Svanemyr, K. M. Moland, R. Banda, P. Musonda (2016) "Effectiveness of a girls' empowerment programme on early childbearing, marriage, and school dropout among adolescent girls in rural Zambia: study protocol for a cluster randomized trial", *Trials* vol. 17 no. 588.
4. Binyaruka, P., E. Patouillard, T. Powell-Jackson, G. Greco, O. Mæstad, and J. Borghi (2015) "Effect of paying for performance on utilisation, quality and user costs of health services in Tanzania: A controlled before and after study", *PlosONE* vol. 10 no. 8. <https://doi.org/10.1371/journal.pone.0135013>.
5. Lange, S., A. Mwisongo, and O. Mæstad (2014) "Why don't clinicians adhere more consistently to the guidelines for Integrated Management of Childhood Illness (IMCI)?" *Social Science and Medicine* 104:56-53. <http://dx.doi.org/10.1016/j.socscimed.2013.12.020>.
6. Ottersen, T., O. Mæstad, and O. F. Norheim (2014) "Lifetime QALY prioritarianism in priority setting: quantification of the inherent trade-off", *Cost Effectiveness and Resource Allocation*, 12:2. <http://www.resource-allocation.com/content/12/1/2>
7. Munga, M., G. Torsvik, and O. Mæstad (2014) "Using incentives to attract nurses to remote areas of Tanzania: a contingent valuation study" Available online in *Health Policy and Planning* 29(2):227-36. <http://dx.doi.org/10.1093/heapol/czt007>.
8. Borghi J, I. Mayumana, I. Mashasi, P. Binyaruka, E. Patouillard, I. Njau, O. Mæstad, S. Abdulla, and M. Mamdani (2013) "Protocol for the evaluation of a pay for performance programme in Pwani region in Tanzania: A controlled before and after study", *Implementation Science*, 8:80. <http://www.implementationscience.com/content/8/1/80>
9. Mæstad, O., and O. F. Norheim (2012) "A universal preference for equality in health? Reasons to reconsider properties of applied welfare functions", *Social Science and Medicine* 75, 1836-1843. <http://dx.doi.org/10.1016/j.socscimed.2012.07.001>
10. Holte, J. H., O. Mæstad, and J. V. Jani (2012) "The decision to vaccinate a child - an economic perspective with data from Southern Malawi" *Social Science and Medicine* 75, 384-391.
11. Mæstad, O. and A. Mwisongo (2011) "Informal payments and the quality of health care: Mechanisms revealed by Tanzanian health workers" *Health Policy* 99, 107-115. <http://dx.doi.org/10.1016/j.healthpol.2010.07.011>
12. Cappelen, A., O. Mæstad, and B. Tungodden (2010) "Demand for childhood vaccination -insights from behavioural economics", *Forum for Development Studies* 37, 349-364. <http://dx.doi.org/10.1080/08039410.2010.507778>
13. Mæstad, O., G. Torsvik, and A. Aakvik (2010) "Overworked? On the relationship between workload and health worker performance. *Journal of Health Economics* 29, 686-698. <http://dx.doi.org/10.1016/j.jhealeco.2010.05.006>
14. Mæstad, O. and O. F. Norheim (2009) "Eliciting people's preferences for the distribution of health. A procedure for a more precise estimation of distributional weights", *Journal of Health Economics* 28, 570-577. <http://dx.doi.org/10.1016/j.jhealeco.2009.02.008>
15. Munga, M., N. G. Songstad, A. Blystad and O. Mæstad (2009) "The decentralisation-centralisation dilemma: recruitment and distribution of health workers in remote districts of Tanzania", *International Health and Human Rights* 9:9. <http://www.biomedcentral.com/1472-698X/9/9>
16. Munga, M. and O. Mæstad (2009), "Measuring inequalities in the distribution of health workers: the case of Tanzania" *Human Resources for Health* 7:4. <http://www.human-resources-health.com/content/7/1/4>
17. Ottersen, T., D. Mbilinyi, O. Mæstad, and O. F. Norheim (2008) "Distribution matters: equity considerations among health planners in Tanzania", *Health Policy* 85, 218-227.
18. Mæstad, O. (2007) "Allocation of emission permits with leakage through capital markets", *Resource and Energy Economics* 29, 40-57.

19. Hagem, C., S. Kallbekken, O. Mæstad and H. Westskog (2006) "Market power with interdependent demand: sale of emission permits and natural gas from Russia", *Environmental and Resource Economics* **34**, 211-227.
20. Hagem, C. and O. Mæstad (2006) "Russian exports of emission permits under the Kyoto Protocol: the interplay with non-competitive fuel market", *Resource and Energy Economics* **28**, 54-73.
21. Mæstad, O. (2006) "Environmental policy and public revenue with international capital mobility", *International Tax and Public Finance* **13**, 43-58.
22. Hagem, C., S. Kallbekken, O. Mæstad and H. Westskog (2005) "Enforcing the Kyoto Protocol: Sanctions and strategic behaviour", *Energy Policy* **33**, 2112-2122.
23. Mathiesen, L. and O. Mæstad (2004) "Climate Policy and the Steel Industry: Achieving Global Emission Reductions by an Incomplete Climate Agreement", *Energy Journal* **25**, 91-114.
24. Hagen, R. J., O. Mæstad and A. Wiig (2003) "Assessing the Economic Gains of Free Market Access for the Least Developed Countries in the QUAD", *Nordic Journal of Political Economy* **29**, 3-24 (2003).
25. Holtmark, B. and O. Mæstad (2002) "Emission trading under the Kyoto Protocol - effects on fossil fuel markets under alternative regimes", *Energy Policy* **30**, 201-218 (2002).
26. Forslid, R., K. H. M. Knarvik, O. Mæstad, and J. I. Haaland (2002) "Integration and transition: Scenarios for the location of production and trade in Europe", *Economics of Transition* **10**, 93-117 (2002).
27. Mæstad, O. (2001) "Efficient Climate Policy with Internationally Mobile Firms", *Environmental and Resource Economics* **9**, 267-284.
28. Mæstad, O. (2001) "Timber trade restrictions and tropical deforestation: a forest mining approach", *Resource and Energy Economics* **23**, 111-132.
29. Mæstad, O. (1998) "On the Efficiency of Green Trade Policy", *Environmental and Resource Economics* **11**, 1-18.
30. Mæstad, O. and B. Tungodden (1997) "Is Poverty Costly for the Non-Poor?" *Forum for Development Studies* 1997(2), 251-275.

#### Articles in other journals

1. Mæstad, O. (1998) "Internasjonal handel og miljøhensyn", *ProSuS - tidsskrift for et bærekraftig samfunn* **3**, 4-15.

#### Chapters in edited books

1. Leonard, K. and O. Mæstad (2016) "Measuring health worker performance", in R.M. Scheffler, C.H. Herbst, C. Lemiere, and J. Campbell (eds.) *Health Labor Market Analyses*. Washington D.C.: The World Bank.
2. Leonard, K. and O. Mæstad (2016) "Analyzing the determinants of health worker performance", in R.M. Scheffler, C.H. Herbst, C. Lemiere, and J. Campbell (eds.) *Health Labor Market Analyses*. Washington D.C.: The World Bank.
3. Ferraz, O. L. M., S. Gloppen, O. Mæstad, and L. Rakner (2014) "Judging the price of life: cost considerations in right-to-health litigation", in H. S. Aasen, S. Gloppen, A. M. Magnussen, and E. Nilssen (eds.) *Juridification and Social Citizenship in the Welfare State*. Edward Elgar.
4. Mæstad, O. and A. Mwisongo (2013) "Productivity of health workers. Tanzania", in A. Soucat, R. Scheffler, and T. A. Ghebreyesus (eds.) *The labor market for health workers in Africa. A new look at the crisis*. Washington D.C.: The World Bank.
5. Mæstad, O. L. Rakner and O. L. M. Ferraz (2011) "Assessing the impact of health rights litigation: A comparative analysis of Argentina, Brazil, Colombia, Costa Rica, India and South Africa", in A. E. Yamin and S. Gloppen, eds.: *Litigating health rights. Can courts bring more justice to health?*. Cambridge, Mass.: Harvard Univ. Press pp. 273-303.
6. Mæstad, O. and A. Mwisongo (2010) "Informal pay and the quality of health care. Lessons from Tanzania", in T. Vian, W. Savedoff, and H. Mathiesen (eds.) *Anticorruption in the health sector. Strategies for transparency and accountability*. Kumarian Press.
7. Mæstad, O. (2005) "En handelspolitikk for redusert fattigdom", in S. Pahle (ed.) *Hva er det med handel?* Norwegian Church Aid: Understanding the Issues.
8. Mæstad, O. and A. Wiig (2003) "Tollfritak fører ikke til økt import" in Kristin Alnæs m.fl. *For en neve dollar - handel med Afrikas framtid*. Oslo: Solidaritet forlag / Fellestrådet for Afrika.
9. Mæstad, O. (2001) "Gratis utslippskvoter i miljøpolitikken", in A.Ø. Røvik (ed.) (2001) *Energi og Miljø ved et tidsskille*. Norges Forskningsråd.
10. Mæstad, O. and A. Wiig (1998) "Rammevilkår for internasjonal varehandel" in R. J. Hagen og K. R. Pedersen (red.) *Vekst og fordeling i fattige land*. Fagbokforlaget.

11. Mæstad, O. (1998) "Miljøkritikken mot GATT/WTO - holder den?" in A. Melchior og V. D. Norman (red.) *Fra GATT til WTO. Handelspolitiske utfordringer ved GATTs 50-årsjubileum*. Oslo. Norsk Utenrikspolitiske Institutt.
12. Mæstad, O. (1996) "Ethics and Environmental Decision-making" in S. Hansen, J. Hesselberg og H. Hveem (red.) *International Trade Regulation, National Development Strategies and the Environment: Towards Sustainable Development?* Oslo: Centre for Development and the Environment. (1996).

### **Reports in external series**

1. "Experiences with Results-Based Payments in Norwegian Development Aid" (with J. Helland) Norad Evaluation Department Report 4/2015.
2. "Basis for Decisions to use Results-Based Payments in Norwegian Development Aid" (with J. Helland) Norad Evaluation Department Report 5/2015.
3. "Environmental Policy in the Steel Industry: Using Economic Instruments" Report Environment Directorate OECD, Paris. (COM/ENV/EPOC/DAFFE/CFA/(2002)68/FINAL)
4. "Free market access for Least Developed Countries - assessing the economic gains and how they can be secured", Evaluation Report 2/2001 for the Norwegian Ministry of Foreign Affairs. (with R. J. Hagen og A. Wiig).

### **Other reports**

1. Results-based financing in the health sector in Tanzania. Process evaluation. Phone Survey #3 (with P. Binyaruka, and V. Somville) CMI report 2021:9.
2. Results-based financing in the health sector in Tanzania. Process evaluation. Phone Survey #2 (with P. Binyaruka, and V. Somville) CMI report 2021:8.
3. Results-based financing in the health sector in Tanzania. Process evaluation. Phone Survey #1 (with P. Binyaruka, J. Borghi, and V. Somville) CMI report 2021:7.
4. "Household wellbeing and coping strategies in Africa during Covid-19: Findings from high frequency phone surveys". CMI report 2020: 4.
5. "Gendercide and Marginalization - an initial review of the knowledge base" (with V. Wang, M. Hatlebakk, L. Tønnessen, and K. Telle). CMI report 2019:4.
6. "Health Services in Angola. Availability, quality, and utilisation" (with M. Frøystad and N. Villamil) CMI report 2009:11.
7. "Service delivery indicators: Pilot in education and health" (with T. Bold, J. Svensson, B. Gauthier, and W. Wane) CMI report 2011:8.
8. "Haydom Lutheran Hospital - final project review" (with A. Mwisongo) CMI report 2009:13.
9. "Research for improved health worker performance. International workshop Begren" CMI report 2009:11.
10. "Improving the quality of health care when health workers are in short supply" (with G. Torsvik) CMI working paper 2008:12.
11. "Review of Haydom Lutheran Hospital". CMI Report 2007:18.
12. "Rewarding safe motherhood: How can performance-based funding reduce maternal and newborn mortality in Tanzania?" CMI Report 2007:17.
13. "Will international trade reduce poverty? A background note to Norad" (with A. Wiig, L. Tøndel, and E. Villanger) CMI report 2017:16.
14. "Human resources for health in Tanzania. Challenges, policy options and knowledge gaps". CMI report 2006:3.
15. "The electricity sector of Uganda - results of development assistance", SNF report no. 10/03.
16. "The international coal trade pattern" SNF report no. 44/03 (with S. P. Strandenes)
17. "Climate policy and the international steam coal demand" SNF report no. 45/03.
18. "Kan vi kjøpe mer fra våre samarbeidsland? Hvem vet hva og hvordan?" CMI rapport 2002:4 (with A. Wiig, A. Milford og Ø. Skare)
19. "International climate policy - consequences for shipping", (with A. J. Evensen, L. Mathiesen and K. Olsen) SNF report 82/2000
20. "Data for a Steel Industry Model", SNF working paper no. 86/00.
21. "Modelling the economic geography of Europe: Scenarios for location of production and trade in Europe" (with R. Forslid, J. I. Haaland and K. H. M. Knarvik) SNF report 67/99.
22. "Hører lokaliseringstøtte hjemme i klimapolitikken? Om tildeling av gratis utslippskvoter i Norge", SNF report 72/1999.
23. "A Data Set for European Regional Analysis" SNF working paper no. 16/1997 (with K. H. M. Knarvik.)
24. "Bør internasjonalt mobile bedrifter fritas for CO2-avgiften?" SNF report 100/1997.

25. "Who should be liable tanker oil spills?" SNF working paper 56/1996.
26. "Liability for Oil Pollution Damage -- who should be Responsible?" SNF report 97/1996.
27. "Internasjonal handel og miljøvern - mot et mer miljøvennlig handelssystem?". SNF report 35/96.
28. "Essays on Trade and Environment". Dissertation for the degree of Dr.oecon., 1995.
29. "The Legitimacy of Green Trade Policy", SNF report 46/94.
30. "Trade Policy and the Environment", SNF report 33/92.
31. "Handel og miljø. En oversikt", SNF report 36/92. (with Jan I. Haaland.)

### **Shorter articles and briefs**

1. "Towards harmonised financing of frontline health service providers in Tanzania" (with P. Binyaruka). CMI brief 2021:5.
2. "Ebola outbreak 2014-2016: Effects on other health services" (with E.L. Shumbullo). CMI brief 2020:3.
3. "Korona i Afrika - hva nå?" Bistandsaktuelt 20.03.2020.
4. "Forskningsmiljøene - en viktig brikke i bistandsrefromen?" Bistandsaktuelt 09.05.2018.
5. "Skygge over bistanden" Dagens Næringsliv 05.01.2018.
6. "En endring for jentene" (with I.F. Sandøy) Klassekampen 19.04.2016.
7. "Nå overlever mer enn 9 av 10 barn i Afrika" (with H. Sommerfeldt) Bergens Tidende 02.11.2015.
8. "Huge potential for improved health service quality" *Human Resources for Health Newsletter*, Ministry of Health Tanzania, vol. 10/2012 (with A. Mwisongo).
9. "Høringsnotat: Stortingsmelding om global helse" Utenrikskomiteen. Norwegian Forum for Global Health Research, mars 2012.
10. "Is work effort higher in church-based than in government health facilities?" (with I. Lindkvist) CMI brief vol. 10 no. 11.
11. "Huge potential for improved health service quality" (with A. Mwisongo and S. Lange) CMI brief vol. 10 no. 10.
12. "Missing the essentials? Children can be saved if they are more carefully examined"(with A. Mwisongo) CMI brief vol. 10 no. 9.
13. "Strong regional inequalities in health service delivery in Angola" (with M. Frøystad and N. Villamil) CMI Angola brief vol. 1 no. 4.
14. "Bistandsforskning til nytte" Bergens Tidende 24.11.2011.
15. "Åtte millioner barn dør hvert år" Bergens Tidende 29.09.2010.
16. "How does litigation affect health financing?" (with O. Ferraz, A. E. Yamin, O. F. Norheim, and S. Gløppen), WHO technical brief series no. 15.
17. "Uetisk import av helsearbeidere?", Bergens Tidende, 2 April, 2007.
18. "Informal pay and the quality of health care: lessons from Tanzania" (with A. Mwisongo) U4 Brief 2007:4.
19. "Health Worker Motivation and Performance Project (MAP)", *Human Resources for Health Newsletter*, Ministry of Health Tanzania, September 2006 (with A. Mwisongo)
20. "PETS - Public Expenditure Tracking Surveys" (with B. Tungodden). Published at [www.u4.no/themes/pets/main.cfm](http://www.u4.no/themes/pets/main.cfm).
21. "Alvorlig for kulltransporten" SIØS newsletter 4/2003.
22. "Stålkriegen", SIØS newsletter 1/2002.
23. "Fri import fra utviklingsland: Skaper lite økonomisk utvikling" SIØS newsletter 2/2001.
24. "Klimapolitikkens betydning for sjøtransporten" SIØS newsletter 3/2000.
25. "Oljemarkedene lite berørt av klimaavtale" SIØS newsletter 2/2000.
26. "Trenger vi en grønn reform av GATT?" *SNF-Bulletin* 9, 17-20. (1997)
27. "International Environmental Agreements: the Distribution of Benefits and Costs Among Nations", unpublished manuscript, trial lecture for the degree of Dr.oecon., 1995.