

Jonathan Cylus, MSc, PhD

Telephone +44 (0) 780 182 4270

Email j.d.cylus@lse.ac.uk
cylusj@who.int

Academic qualifications

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|-----------|---|
| 2012-2015 | London School of Economics and Political Science
London, United Kingdom
PhD (Social Policy)

Thesis title: Do unemployment benefits affect health? Evidence from the United States |
| 2010-2012 | London School of Economics and Political Science
London, United Kingdom
MSc (International Health Policy - Health Economics) |
| 2006 | Johns Hopkins University
Baltimore, Maryland, United States
BA (Economics) |

Appointments

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|--------------|---|
| 2017-present | Head of European Observatory London hubs/Senior Research Fellow
European Observatory on Health Systems and Policies,
London School of Economics and Political Science (LSE Health) &
London School of Hygiene and Tropical Medicine
London, United Kingdom |
| 2010-2017 | Technical Officer/Research Fellow
European Observatory on Health Systems and Policies,
London School of Economics and Political Science (LSE Health)
London, United Kingdom |
| 2006-2010 | Economist
Office of the Actuary, Centers for Medicare and Medicaid Services (CMS), United States Department of Health and Human Services
Baltimore, Maryland, United States |
| 2003-2006 | Research Assistant
Johns Hopkins Bloomberg School of Public Health,
Health Policy and Management Department (under Professor Gerard F. Anderson)
Baltimore, Maryland, United States |

Secondments, short-term consultancies and other professional activities

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| 2014-present | Consultant (Secondment from European Observatory)
World Health Organization (WHO) Regional Office for Europe
Barcelona Office for Health Systems Strengthening, Barcelona, Spain

Designing new metrics to measure financial protection in European health systems |
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2014	<p>Consultant (Secondment from European Observatory) Organization for Economic Cooperation and Development (OECD), Paris, France Advised the Mexican government on improving its pooling of financial resources in the health sector</p>
2013	<p>Advisor MigrantHealth:IL, Tel Aviv, Israel Provided actuarial assistance to an organization using cost- effective approaches to improve the health of the migrant community in Israel</p>
2013	<p>Consultant Options, London, United Kingdom Conducted research on health worker satisfaction using anchoring vignettes to adjust for survey response bias in Sierra Leone</p>
2012 and 2013	<p>Consultant Double Helix, London, United Kingdom Studied changes in length of hospital stay for individuals who contract clostridium difficile during care in England</p>
2011-present	<p>Trustee Board Member Tesfa UK Foundation, London, United Kingdom Research support and advising a charity that provides early childhood education in Ethiopia</p>
2008-2010	<p>Consultant/Technical Advisor Abt Associates, United States Agency for International Development (USAID) Health Systems 20/20 Project, Bethesda, Maryland, United States Conducted health financing research to support National Health Accounts in developing countries, including the design of a health care costing tool for the Ministry of Health in Liberia</p>

Teaching-specific activities

2015-2016	<p>Exam marker Department of Social Policy, London School of Economics and Political Science, London, United Kingdom Marked exams for US Health Policy course</p>
2014	<p>Academic tutor LSE Enterprise, London, United Kingdom Tutored and supervised students from Latin American Health Ministries taking part in an LSE/Novartis health economics course</p>

Research funding

2012-2013	Suntory and Toyota International Centres for Economics and Related Disciplines (STICERD)
Title	Perceptions of health needs and health care access: what is their impact on precautionary savings and macroeconomic growth?
Amount	£4,800

Role	Co-Investigator with Dr. Irene Papanicolas
2014-2017 Title	Irish Health Research Board (HRB) Mapping the pathway to Universal Health Care in Ireland (HRA-2014- HSR-499)
Amount	329,647 EUR
Role	Co-Applicant (PI Dr. Steve Thomas)
2020-2022	Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHR) Improving Methods for Assessing Medical Care Spending and Financial Risk (#1R03HD100769-01)
Amount	\$154,474
Role	Co-Investigator with Dr. Mustafa Hussein and Dr. Barbara L Wolfe

Peer-reviewed Publications

1. Hussey, P.S., Anderson, G.F., **Cylus, J.**, "Nursing Supply Through an International Lens," **Nursing and Health Policy Review**, Vol. 2:2, Fall/Winter 2003.
2. Hartman, M., Catlin, A., Lassman, D., **Cylus, J.**, Heffler, S., US Health Spending By Age, Selected Years Through 2004. **Health Affairs**, Fall 2007.
3. **Cylus, J.**, Dickensheets, B., Multifactor Productivity in the Hospital Sector: An Analysis of Two Methodologies, **Health Care Financing Review**, Winter 2007-2008; 29(2): 49-64.
4. Sisko, A., Truffer, C., Smith, S., Keehan, S., **Cylus, J.**, et al. Health Spending Projections Through 2018: Recession Effects Add Uncertainty To The Outlook, **Health Affairs**, 24 February 2009.
5. **Cylus, J.**, Hartman, M., Washington, B., Andrews, K., Catlin, A. Pronounced Gender and Age Differences Are Evident in Personal Health Care Spending Per Person, **Health Affairs**, December 2010.
6. Sorenson, C., Naci, H., **Cylus, J.**, Mossialos, E., Evidence of comparative efficacy should have a formal role in European drug approvals, **BMJ**, 6 September 2011.
7. **Cylus, J.**, Mladovsky, P. and McKee, M. (2012) Is There a Statistical Relationship between Economic Crises and Changes in Government Health Expenditure Growth? An Analysis of Twenty-Four European Countries. **Health Services Research**. 47:6 pgs 2204-2224. December 2012.
8. Naci H, **Cylus J**, Vandoros S, Sato A, Perampaladas K. (2012) Raising the bar for market authorisation of new drugs. **BMJ**. 2012 Aug 7;345:e4261. doi: 10.1136/bmj.e4261.
9. Rahmioglu N, Naci H, **Cylus J**. (2012) Improving health care services in Northern Cyprus: a call for research and action. **European Journal of Public Health**. Eur J Public Health (2012) doi: 10.1093/eurpub/cks145 First published online: October 25, 2012.
10. **Cylus J**, Papanicolas I, Constantinou E, Theodorou M (2013) Moving forward: Lessons for Cyprus as it implements its health insurance scheme, **Health Policy**, 10.1016/j.healthpol.2012.12.007.
11. Rechel B, Grundy E, Robine JM, **Cylus J**, Mackenbach J, Knai C, McKee M (2013) Ageing in the European Union. **The Lancet**. Volume 381, Issue 9874, Pages 1323 - 1331, 13 April 2013.
12. Karanikolos M, Mladovsky P, **Cylus J**, Thomson S, Basu S, Stuckler D, Mackenbach J, McKee M (2013) Financial crisis, austerity, and health in Europe. **The Lancet**. Volume 381, Issue 9874, Pages 1312 - 1322, 13 April 2013.

13. Papanicolas I, **Cylus J**, Smith P. (2013) An analysis of survey data from eleven countries finds that 'satisfaction' with health system performance means many things. **Health Affairs**. 2013 Apr;32(4):734-42. doi: 10.1377/hlthaff.2012.1338.
- 14a. **Cylus J**, Glymour M, Avendano M. (2014) Do generous unemployment benefit programs reduce suicides? A state fixed-effect analysis covering 1968-2008? **American Journal of Epidemiology**. 179 (12). pp. 45-52.
- 14b. **Cylus J**, Glymour M, Avendano M. (2014) Cylus et al. respond to "unrealized benefits?". **American Journal of Epidemiology**, 180 (1). pp. 56-57.
15. **Cylus J**, Glymour M, Avendano M. (2015) Health Effects of Unemployment Benefit Program Generosity. **American Journal of Public Health**: February 2015, Vol. 105, No. 2, pp. 317-323. doi: 10.2105/AJPH.2014.302253
16. **Cylus J**, Papanicolas, I, Smith P. (2015) Using Data Envelopment Analysis to address the challenges of comparing health system efficiency. **Global Policy**. Ahead of print: <http://onlinelibrary.wiley.com/doi/10.1111/1758-5899.12212/full>.
17. **Cylus J**, Papanicolas I. (2015) An analysis of perceived access to health care in Europe: How universal is universal coverage? **Health Policy**. 119 (9). pp. 1133-1144.
18. Wouters, O, **Cylus, J**, Yang, W, Thomson, S, McKee, M. (2016) Medical Savings Accounts: Assessing their impact on efficiency, equity and financial protection in health care. **Health Economics, Policy and Law**. DOI: <http://dx.doi.org/10.1017/S1744133116000025>, 15 pages. Published online: 17 February 2016
19. Thomson S, Evetovits T, **Cylus J**, Jakab M (2016) Monitoring financial protection to assess progress towards Universal Health Coverage in Europe. **Public Health Panorama**. Volume 2, Issue 3. Pg 357-365.
20. **Cylus J**, Avendano M. (2017) Receiving unemployment benefits may have positive effects on the health of the unemployed. **Health Affairs**. Volume 36 No. 2. 289-296.
21. **Cylus J** (2017) Unemployment insurance and physical activity. In: Bolin, Kristian and Lindgren, Björn and Grossman, Michael and Gyrd-Hansen, Dorte and Iversen, Tor and Kaestner, Robert and Sindelar, Jody L., (eds.) **Human capital and health behaviour: Advances in Health Economics and Health Services Research** Volume 25. Emerald Publishing, Bingley, UK, 245-277
22. **Cylus J**, Thomson S, Evetovits T (2018) Catastrophic health spending in Europe: equity and policy implications of different calculation methods. **Bulletin of the World Health Organization**.
23. Jayawardana S, **Cylus J**, Mossialos E (2019) It's not ageing, stupid: Why population ageing won't bankrupt health systems. **European Heart Journal - Quality of Care and Clinical Outcomes**.
24. Vasco Santos J, Lobo M, Neiva R, Viana J, Souza J, Dias C, **Cylus J**, W Ricciardi & Freitas A. (2020) European Union state of health from 1990 to 2017: time trends and its enlargements' effects. **International Journal of Public Health**. Volume 65, pages175–186.
25. **Cylus J**, Williams G, Normand G, Figueras J (2020) Economic, fiscal, and societal consequences of population aging-looming catastrophe or fake news? **Croatian medical journal** 61 (2), 189.
26. **Cylus, J** and Smith, P (2020) The economy of wellbeing: what is it and what are the implications for health? **BMJ**.

27. Rajan S, **Cylus J**, McKee M (2020) What do countries need to do to implement effective 'find, test, trace, isolate and support' systems? **Journal of the Royal Society of Medicine**.

Peer-reviewed books and book chapters

1. **Cylus, J.** and Smith, P. (2013). Comparative efficiency. In: Smith PC, I Papanicolas and J Figueras (eds.) Health system performance comparison: an agenda for policy, information and research. Buckingham, Open University Press.
2. Theodorou M, Charalambous C, Petrou C, **Cylus J.** (2012) Health Systems in Transition: Cyprus. Vol. 14, No. 6. World Health Organization, Copenhagen, Denmark.
3. Steel D, **Cylus J.** (2012) Health Systems in Transition: Scotland. Vol. 14, No. 9. World Health Organization, Copenhagen, Denmark.
4. Muscat N, Calleja N, Calleja, A. **Cylus J** (2014) Health Systems in Transition: Malta. Vol. 16, No. 1. World Health Organization, Copenhagen, Denmark.
5. **Cylus J**, Pearson M. (2015) Chapter 2 -- The crisis and its implications for household financial security, government resources and health expenditure. In: Thomson, S, Jowett, M, Evetovits, T, Mladovsky, P, Maresso, A, Figueras, J, **Cylus, J**, Karanikolos, M and Kluge, H (eds.) Economic Crisis, Health Systems and Health in Europe: Impact and Implications for Policy. Open University Press, Maidenhead, UK. 17-50.
6. Maresso, A, Mladovsky, P, Thomson, S, Sagan, A, Karanikolos, M, Richardson, E, **Cylus, J**, Evetovits, T, Jowett, M, Figueras, J, and Kluge, H (eds.) (2015) Economic Crisis, Health Systems and Health in Europe: Country Experiences. Observatory studies series , 41. WHO Regional Office for Europe / European Observatory on Health Systems and Policies, Copenhagen, Denmark.
7. Papanicolas I **Cylus J**, (2015) Comparison of Healthcare Systems Performance. In: Kuhlmann, E, Blank, RH, Bourgeault, IL, Wendt, C (eds.) The Palgrave International Handbook of Healthcare Policy and Governance; Palgrave Macmillan.
8. **Cylus, J**, Wouters, O and Kanavos, P (2015) Chapter 9 -- Understanding the role of governance in the pharmaceutical sector: from laboratory to patient In: Greer, Scott L. and Wismar, Matthias and Figueras, Josep, (eds.) Strengthening Health System Governance: Better Policies, Stronger Performance. European Observatory on Health Systems and Policies. Open University Press, Maidenhead, UK, 175-187.
9. **Cylus J**, Richardson E, Findley L, Longley M, O'Neill C, Steel D (2016). United Kingdom: Health system review. Health Systems in Transition, 2015; 17(6): 1–125.
10. **Cylus J**, Papanicolas I, Smith P (eds.) (2016). Health system efficiency: How to make measurement matter for policy and management. Health policy series, 46. WHO Regional Office for Europe, Copenhagen, Denmark.
11. Candari, CJ, **Cylus, J** and Nolte, E (2017) Assessing the economic costs of unhealthy diets and low physical activity: an evidence review and proposed framework. Health policy series, 47. WHO Regional Office for Europe, Copenhagen, Denmark.
12. Thomson S, **Cylus J** and Evetovits T (2019) Can people afford to pay for health care? New evidence on financial protection in Europe. WHO Regional Report. WHO Regional Office for Europe, Copenhagen, Denmark.
13. Greer S, Lynch J, Reeves A, Gingrich J, Falkenbach M, **Cylus J** and Bambra C (in press) Ageing and health: The politics of better policies. Cambridge University Press.

Technical reports and other publications

1. Hussey, P.S., Anderson, G.F., **Cylus, J.**, “Multinational Comparisons of Health Data Systems, 2004” The Commonwealth Fund, 2004.
2. Anderson, G.F., Hyder, A.A., **Cylus, J.**, et al. “Non-Communicable Diseases and Injuries in Eastern Europe and Eurasia,” US Agency for International Development (USAID), <http://www.usaid.gov/locations/europe_eurasia/press/success/usaid_ncdi_ee_report_final_version_10-17-06.pdf>, October 2006.
3. **Cylus, J.** and Anderson, G.F., “Multinational Comparisons of Health Systems Data, 2006,” The Commonwealth Fund, May 2006.
4. Cowan, C., **Cylus, J.**, Sisko, A., “Developing US Health-Spending Estimates by Function: Experiences and Recommendations,” The Organization for Economic Co-operation and Development (OECD), October 2007.
5. **Cylus, J.**, et al. “System of Health Accounts Input Documents,” US Agency for International Development (USAID), <http://pdf.usaid.gov/pdf_docs/PNADO149.pdf> July 2008.
6. **Cylus, J.** and Irwin, R., (2010) The Challenges of hospital payment systems. *Euro Observer*. Autumn 2010. 12 (3).
7. **Cylus, J.** and Irwin, R., (2011) “Sistemul de sănătate din România – pasul următor,” (The Romanian health care system -- next steps), *Medica Academica*. June 2011, <<http://medicaacademica.ro/2011/06/21/sistemul-de-sanatate-din-romania-%E2%80%93-pasul-urmator-3/>>.
8. Vincke, P., **Cylus, J.** Healthcare Fraud and Corruption in Europe: an overview. *Eurohealth* 2011; 17(4). 14-18.
9. Depraetere, J., **Cylus, J.** Gaming the European Health Insurance Card: Cross-border shopping for medicines in Belgium and the Netherlands. *Eurohealth* 2011; 17(4); 19-22.
10. Mladovsky, P., Srivastava, D., **Cylus, J.**, Karanikolos, M., Evetovits, T., Thomson, S., McKee, M., “Health policy responses to the financial crisis and other health system shocks in Europe,” Health Evidence Network (2012).
11. Mladovsky, P., Srivastava, D., **Cylus, J.**, Karanikolos, M., Evetovits, T., Thomson, S., McKee, M., Health Policy in the Financial Crisis. *Eurohealth* 2012; 18(1); 3-6.
12. Blumel, M., **Cylus, J.**, van Ginneken E, Hernández-Quevedo E, Karanikolos M, Madarova H, Maresso A, Merkur S, Mladovsky P, Panteli D, Quentin Q, Reinap M, Sagan A, Schäfer W, Šturma J (alphabetical ordering). National Health Strategies in the Member States of the European Union and Croatia. European Commission Directorate General & Consumers (edited by Wismar M). Draft submitted 13 June 2012.
13. Busse R, **Cylus J**, Evetovits T, Figueras J, Jowett M, Karanikolos M, Mladovsky P, Merkur S, Nolan A, Normand C, Palm W, Sagan A, Thomson S. (alphabetical ordering). Health system responses to the financial crisis in Ireland: policy options in international context (edited by Thomson, Jowett, Mladovsky). Draft submitted 5 October 2012.
14. Theodorou, M. **Cylus, J** Contributions, Co-pays and Computers: Health System Reform in Cyprus. (2012) *Eurohealth incorporating Euro Observer* 2012; 18(3); 25-28.
15. Naci, H, **Cylus, J** (2012) Why a stricter regulation of drugs could foster (not deter) pharmaceutical innovation. *British Politics and Policy at LSE Blog*. <http://blogs.lse.ac.uk/politicsandpolicy/archives/26997>.
16. **Cylus, J**, Papanicolas, I, Theodorou, M, (2013) In Cyprus, the Troika should be promoting health reforms towards universal coverage, not derailing them. London School of Economics,

European Politics and Policy (EUROPP) Blog.

<http://blogs.lse.ac.uk/europpblog/2013/02/16/cyprus-health-reforms-troika/>.

17. Papanicolas, I, **Cylus, J**, Smith, P (2013) What drives people's perceptions of their health system? In the UK, overall satisfaction with the NHS is closely associated with GP performance. British Politics and Policy at LSE Blog.

<http://blogs.lse.ac.uk/politicsandpolicy/archives/33316>.

18. Thomson S, Figueras J, Evetovits T, Jowett M, Mladovsky P, Maresso A, Karanikolos M, **Cylus J**, McKee M, Jakab M, Kluge H (2015) Health, health systems and economic crisis in Europe. Policy Summary 10. WHO Regional Office for Europe and European Observatory on Health Systems and Policies.

19. Helping Health Workers Cope, Kono, Sierra Leone: A pilot project evaluation. (2013)

http://innovationsformnch.org/uploads/resources/pdfs/HHWC_Evaluation_Report_October_2013.pdf.

20. **Cylus J** (2015) Health System Expenditure Review: Slovenia. Prepared for the Ministry of Health of Slovenia.

21. **Cylus J** (2016) Realigning financing to better meet individual health care needs In: OECD Reviews of Health Systems: Mexico 2016. OECD Reviews of Health Systems. OECD, 117-146. ISBN 9789264230972

22. **Cylus, J**, Nolte, E, Figueras, J; McKee, M (2016). "What, if anything, does the EuroHealth Consumer Index actually tell us?" BMJ. 9 February 2016.

<<http://blogs.bmj.com/bmj/2016/02/09/what-if-anything-does-the-eurohealth-consumer-index-actually-tell-us/>>.

23. Thomson S, Evetovits T, **Cylus J**, Jakab M (2016) "Generating Evidence for UHC: Systematic Monitoring of Financial Protection in European Health Systems" Eurohealth. Volume 22(2) pg 23-27.

24. Jowett M, Petro-Brunal MT, Flores G, **Cylus J**. Spending targets for health: no magic number. Health Financing Working Paper Series #1. 2016. World Health Organization, Geneva.

25. Couffinhal A, **Cylus J**, Elovainio R, Figueras J, Jeurissen P, McKee M, Smith P, Thomson S, Winblad U (2016). International expert panel pre- review of health and social care reform in Finland. <<https://julkaisut.valtioneuvosto.fi/handle/10024/79070>>.

26. **Cylus J**, Papanicolas I, Smith PC (2017). Identifying the causes of inefficiencies in health systems. Eurohealth 2017; 23(2). Pg 3-7.

27. Papanicolas I, **Cylus J** (2017). The challenges of using cross-national comparisons of efficiency to inform health policy. Eurohealth 2017; 23(2). Pg 8-11.

28. Thomson S, Evetovits T, **Cylus J** (2017) Financial protection in high-income countries: a comparison of the Czech Republic, Estonia and Latvia Working Paper prepared by the WHO Regional Office for Europe, WHO/HIS/HGF/HFWorkingPaper/17.12. World Health Organization, Copenhagen, Denmark.

29. **Cylus J**, Papanicolas I, Smith PC (2017) How to make sense of health system efficiency comparisons? OBS Policy Brief, World Health Organization, Copenhagen, Denmark.

30. **Cylus J**, Normand C, Figueras J (2018) The economics of healthy and active ageing: what are the costs and benefits of population ageing (and what role for policy)? Economía y Salud: Boletín Informativo (91).

31. **Cylus J**, Roland D, Nolte E, Corbett J, Jones K, Forder J, Sussex J (2018) Identifying options for funding the NHS and social care in the UK: international evidence. Health Foundation working paper. July 2018. Working paper number 3.
32. **Cylus J**, Permanand G, Smith PC (2018) Making the economic case for investing in health systems: What is the evidence that health systems advance economic and fiscal objectives? Policy Brief for Tallinn Conference, Health Systems for Prosperity and Solidarity.
33. Smith PC, Karanikolos M, **Cylus J** (2018) Evolution of health system performance assessment: The roles of international comparisons and international institutions. *Eurohealth* 24 (2), 15-18.
34. **Cylus J**, Permanand G, Smith PC (2018) How can health systems advance economic and fiscal objectives? *Eurohealth* 24 (2), 15-18.
35. Karanikolos M, **Cylus J** (2019) Ch 3 Systems thinking for monitoring efficiency: the case of managing acute care demand. In: *Tools and Methodologies to Assess the Efficiency of Health Care Services in Europe: An overview of current approaches and opportunities for improvement*. Report by the Expert Group on Health System Performance Assessment. European Commission.
36. **Cylus J** (2019) Written evidence requested by House of Lords Economic Affairs Committee on options for funding social care in England.
<http://data.parliament.uk/writtenevidence/committeeevidence.svc/evidencedocument/economic-affairs-committee/social-care-funding-in-england/written/98567.pdf>
37. **Cylus J**, Normand C, Figueras J (2019) Will ageing spell the end of the welfare state? A review of evidence and policy options. *Economics of Healthy and Active Ageing Series*. WHO.
38. **Cylus J**, Roubal T, Ong P, Barber B (2019) Sustainable health financing with an ageing population: implications of different revenue raising mechanisms and policy options. *Economics of Healthy and Active Ageing Series*. WHO.
39. Thomson S, **Cylus J**, Evetovits T (2019) Can people afford to pay for health care? New evidence on financial protection in Europe. *Eurohealth* 25 (3), 15-18.
40. Kutzin J, Barroy H, Bertram M, Bigeard A, Cid C, Cowley P, **Cylus J** et al (2019), Financing for Universal Health Coverage: Dos and Don'ts. Health Financing Guidance Note No 9. WHO.
41. Williams G, **Cylus J**, Roubal T, Ong P, Barber B (2019) Sustainable health financing with an ageing population: Will population ageing lead to uncontrolled health expenditure growth? *Economics of Healthy and Active Ageing Series*. WHO.
42. Avendano M, **Cylus J** (2019) Working at older ages: why it's important, how it affects health, and the policy options to support health capacity for work. *Economics of Healthy and Active Ageing Series*. WHO.

Journal refereee

American Journal of Epidemiology, Applied Economic Perspectives and Policy, Applied Health Economics and Health Policy, BMC Health Services Research, BMJ, European Journal of Health Economics, Globalization and Health, Health Policy, Health Policy and Planning, Health Economics, Policy and Law, Inquiry, International Journal for Equity in Health, International Journal of Health Care Finance and Economics, International Journal of Health Economics and Management, Journal of Epidemiology and Community Health, Journal of European Social Policy, Journal of Health Services Research & Policy, Public Health, Quality in Primary Care, Revista Portuguesa de Saude Publica, Social Science and Medicine

Grant referee

Ireland Health Research Board (HRB); Netherlands Organisation for Scientific Research (NOW)

Miscellaneous skills

Stata, Visual Basic (VBA), Eviews, SAS

Fluent speaking, reading and writing in English and Spanish

Basic speaking, reading and writing in Portuguese, French and Russian