

Curriculum Vitae

Samir K.C.

Birth Year: 1973 (Nepal)

URL1: www.iiasa.ac.at/web/home/research/researchPrograms/WorldPopulation/Staff/K-C-Samir.en.html

URL2: <http://cms.shu.edu.cn/Default.aspx?tabid=37913>

• EDUCATION

- 2009 PhD in Spatial Sciences, University of Groningen, The Netherlands (Scholarship Award from Netherlands Foundation for the Advancement of Tropical Research, The Netherlands)
- 2001-2002 Master in Demography full course (required for PhD), Population Research Centre, University of Groningen, The Netherlands
- 1997 Master in Statistics, Department of Statistics, Tribhuvan University, Kathmandu, Nepal
- 1994 B.Sc. Degree in Statistics, Mathematics and Physics, Tribhuvan University, Kathmandu, Nepal

• CURRENT POSITION(S)

- Since June 2015 Professor, Asian Demographic Research Institute, Shanghai University, Shanghai, China
- Since May 2014 Co-Principal Investigator, internal IIASA project "Accounting for socio-economic heterogeneity in IIASA models"
- Since September 2012 Leader/Director of Project "Modeling Human Capital Formation", Wittgenstein Centre for Demography and Global Human Capital (IIASA, VID/ÖAW, WU), International Institute for Applied Systems Analysis (IIASA), World Population Program, Laxenburg, Austria
- Since May 2005 Research Scholar, IIASA, World Population Program, Laxenburg, Austria (Part-time since June 2015)

• PREVIOUS POSITIONS

- 2008-2010 Co-leader, Greenhouse Gas Initiative, IIASA, Laxenburg, Austria
- 2001-2009 PhD student at University of Groningen and Erasmus University, Rotterdam, The Netherlands, and IIASA, Laxenburg, Austria (Supervisors: Frans Willekens and Louis Niessen)
- 2002-2003 Program Manager in the Economic Evaluation of Practical Approach to Lung Health (PhD related) in Nepal, Nawalparasi, Nepal
- 2001 Biostatistician, Nepal Health Research Council, Kathmandu, Nepal
- 2000-2003 Lecturer of Statistics and Computer Applications at the Department of Community Medicine, Institute of Medicine, Kathmandu, Nepal
- 1997-2003 Lecturer in Statistics Tribhuvan and Pokhara Universities, Kathmandu, Nepal

• SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

- 2008-2016 Supervising PhD students as part of IIASA Young Scientists Summer Program (YSSP)
- 2000-2003 Supervising post graduate medical and public health students, Department of Community Medicine, Institute of Medicine, Kathmandu, Nepal

- **TEACHING ACTIVITIES**

- Nov-Dec 2015 Teaching at Business University (WU), Vienna; “Population, Human Capital and Policy II”, SEEP Masters.
- Nov-Dec 2014 Teaching at the intensive training workshop (8 days) on Demographic Computations Series 2: Multistate Population Projection in Excel and R, organized by ISEC, IIASA, and TIFAC, Bangalore, India
- June 2014 Teaching a course (1 week) on sub-national Population Projection at Statistical research and Training Center (SRTC), Tehran, Iran
- April 2014 Teaching a course on Population Projection (1 week) European Doctoral School of Demography (EDSD), Warsaw, Poland
- 2010 Teaching at the intensive training workshop (1 week) on Demographic Computations: Multistate Population Projection, organized by ISEC, IIASA, and TIFAC, Bangalore, India
- 2009 Teaching at the intensive training workshop (1 week) on Demographic Computations: Population Projection, Kathmandu, Nepal
- 2000-2003 Lecturer (*contractual*) of Statistics and Computer Applications at the Department of Community Medicine, Institute of Medicine, Kathmandu, Nepal
- 1997-2003 Lecturer in Statistics and Research Methodology at Tribhuvan University and Pokhara University, Kathmandu, Nepal

- **ORGANISATION OF SCIENTIFIC MEETINGS**

- 2011 Co-organizer of the IIASA/Oxford Expert Meeting on the Future of High Fertility Countries (12 participants), 7-9 November, 2011, Dhulikhel, Nepal
- 2009 Co-organizer of the international conference “Education and Demography” (150 participants), 30 November- 1 December, 2009, Vienna Institute of Demography (VID), Vienna, Austria

- **INSTITUTIONAL RESPONSIBILITIES**

- 2013-2016 Member of IIASA’s internal Post-doc selection committee
- 2013-2013 Elected Member of IIASA’s Internal Research Committee, core scientific body of IIASA
- 2011-2015 Thematic Focal Person of “Modeling Human Capital” at Wittgenstein Center for Demography and Global Human Capital (IIASA, VID/OEAW, WU), Vienna, Austria
- Since 2012 Leader of Project, Modeling Human Capital Formation, World Population Program, IIASA, Laxenburg, Austria
- 2012-2013 Member of the Internal Research Committee (IRC), International Institute for Applied Systems Analysis, Laxenburg, Austria

- **COMMISSIONS OF TRUST**

- 2012-2014 Consultant, UNDP (USA/Cambodia)
- 2011-2015 Consultant, World Bank (USA /Bulgaria)
- 2010 Consultant, Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ), Germany

Publications

- Abel G.J., Barakat B., **KC S.**, and Lutz W. 2016. Meeting the Sustainable Development Goals leads to lower world population growth. Proceedings of the National Academy of Science. www.pnas.org/cgi/doi/10.1073/pnas.1611386113 (Authors listed in alphabetical order)
- Loichinger E, **KC S.**, and Lutz W (2016) A four-dimensional population module for the analysis of future adaptive capacity in the Phang Nga province of Thailand. In: Vienna Yearbook of Population Research 2015. Verlag der Oesterreichischen Akademie der Wissenschaften, Vienna, Austria, pp. 263-287. ISBN 13: 978-3-7001-8007-4
- Goujon A, **KC S.**, Speringer M, Barakat B, Potancokova M, Eder J, Striessnig E, Bauer R, et al. (2016) A Harmonized Dataset on Global Educational Attainment between 1970 and 2060 – An Analytical Window into Recent Trends and Future Prospects in Human Capital Development. *Journal of Demographic Economics*, 82 (03). pp. 315-363.
- Abel G, Barakat B, **Samir KC.**, and Lutz W (2016) Meeting the Sustainable Development Goals leads to lower world population growth. IIASA Working Paper. WP 16-007, IIASA, Laxenburg, Austria
- Riahi, K., van Vuuren, D.P., Kriegler, E., Edmonds, J., O'Neill, B., Fujimori, S., Bauer, N., Calvin, K., Dellink, R., Fricko, O., Lutz, W., Popp, A., Crespo Cuaresma, J., **Samir, KC.**, Leimbach, M., Jiang, L., Kram, T., Rao, S., Emmerling, J., Ebi, K., Hasegawa, T., Havlik, P., Humpenöder, F., Da Silva, L.A., Smith, S., Stehfest, E., Bosetti, V., Eom, J., Gernaat, D., Masui, T., Rogelj, J., Strefler, J., Drouet, L., Krey, V., Luderer, G., Harmsen, M., Takahashi, K., Baumstark, L., Doelman, J., Kainuma, M., Klimont, Z., Marangoni, G., Lotze-Campen, H., Obersteiner, M., Tabeau, A. and Tavoni, M. (2016) The shared socioeconomic pathways and their energy, land use, and greenhouse gas emissions implications: An overview. *Global Environmental Change*. (In Press)
- A Goujon, W Lutz, **KC Samir** (2015), Education stalls and subsequent stalls in African fertility: A descriptive overview. *Demographic Research* 33, 1281-1296
- Yüceşahin, M. M., **KC, S.** (2015), Demographic and Human Capital Heterogeneity in Selected Provinces of Turkey: A Scenario Analysis Using Multidimensional Population Projection Model, *Economics and Sociology*, Vol. 8, No 3, pp. 215-244
- Jaeger J, Nakicenovic N, Fuss S, **KC S.**, Rovenskaya E, Wagner F (2015). Special Issue based on IIASA's 40th Anniversary Conference Guest Editorial. *Technological Forecasting and Social Change*, Vol. 98, p.211
- Lutz W, Butz W, **KC S.**, Sanderson W, and Scherbov S. (2014). Population growth: Peak probability. *Science*, 346(6209), 561–561. (Letters to Science, October 2014)
- Lutz W, Butz W P and **KC S.**, eds. 2014. *World Population and Human Capital in the 21st Century*. Oxford University Press.
- **KC S & Lutz W** (2014). The human core of the shared socioeconomic pathways: Population scenarios by age, sex and level of education for all countries to 2100. *Global Environmental Change*, published online (4 July 2014).
- **KC S** (2014). An age distribution story: Reading into the population pyramid of Nepal. *Asian Population Studies*, published online (14 March 2014).
- **KC S & Lutz W** (2014). Demographic scenarios by age, sex and education corresponding to the SSP narratives. *Population and Environment*, 35(3), 243–260. (Published online 19 February 2014).
- **KC S** (2013). Community vulnerability to floods and landslides in Nepal. *Ecology and Society*, 18(1):8 (March 2013).
- **KC S** (2013). Population stabilization, human. In: SA Levin (ed.), *Encyclopedia of Biodiversity (Second Edition)*. Elsevier/Academic, Waltham, USA, pp.199-209 (Published online 23 January 2013).
- Lutz W & **KC S** (2013). Demography and human development: Education and population projections. Occasional Paper No. 2013/04, UNDP Human Development Report Office, New York, NY, USA.
- Lutz W & **KC S** (2013). The Asian century will be built on human capital. *East Asia Forum Quarterly (EAFQ)*, 5(1):7-8 (January-March 2013).
- Skirbekk V & **KC S** (2012). Fertility-reducing dynamics of women's social status and educational attainment. *Asian Population Studies*, 8(3):251-264.

- Lutz W & **KC S** (2011). Global human capital: Integrating education and population. *Science*, 333(6042):587-592 (29 July 2011).
- Lutz W & **KC S** (2010). Dimensions of global population projections: What do we know about future population trends and structures? *Philosophical Transactions of the Royal Society B: Biological Sciences*, 365(1554):2779-2791 (27 September 2010).
- **KC S**, Barakat B, Goujon A, Skirbekk V, Sanderson WC & Lutz W (2010). Projection of populations by level of educational attainment, age, and sex for 120 countries for 2005-2050. *Demographic Research*, 22(15):383-472 (16 March 2010).
- **KC S** & Lentzner H (2010). The effect of education on adult mortality and disability: A global perspective. *Vienna Yearbook of Population Research 2010*, 8:201-235.
- Stonawski M, Skirbekk V, **KC S** & Goujon A (2010). Projections of religiosity for Spain. In: *Eurostat/UNECE Work Session on Demographic Projections*. 28-30 April 2010, Lisbon, Portugal, pp.421-438.
- Goujon A & **KC S** (2009). Past, present, and future demographic trends in Spain [Pasado, presente y futuro de las tendencias demograficas en Espana]. In: Ferrer JV (ed.), *Economia Espanola, 2nd Edition*. McGraw-Hill, Madrid, Spain pp.75-86.
- Lutz W, Sanderson WC, Scherbov S & **KC S** (2009). Demographic and human-capital trends in Eastern Europe and Sub-Saharan Africa. In: Stiftung Bertelsmann & Institute Migration Policy (eds), *Talent, Competitiveness and Migration*. Verlag Bertelsmann Stiftung, Gütersloh, Germany, pp.163-192.
- Lutz W, **KC S**, Khan HTA, Scherbov S & Leeson GW (2009). Future ageing in Southeast Asia: Demographic trends, human capital, and health status. In: Arifin EN & Ananta A (eds), *Older Persons in Southeast Asia: An Emerging Asset*. ISEAS Publishing, Singapore, pp.47-67.
- **KC S** (2009). *Lung Health in Rural Nepal: Multi-State Modeling of Health Status and Economic Evaluation of Integrated Respiratory Care Guidelines*. IIASA Research Report RR-09-001. (**PhD Thesis**)
- Lutz W, **KC S** & Scherbov S (2009). Future population growth, aging and human capital in the Mediterranean. In: Lutz W & Goujon A (eds), *Capital Humano, Genero y Envejecimiento en el Mediterraneo*, PAPERSIEMed. 7, IEMed., Barcelona, Spain, pp.19-29.
- Goujon A & **KC S** (2009). Women's level of educational attainment in North Africa (1970-2050). Gender gap versus gender dividend: Challenges and policy implications. In: Lutz W & Goujon A (eds), *Capital Humano, Genero y Envejecimiento en el Mediterraneo*, PAPERSIEMed. 7, IEMed., Barcelona, Spain, pp.19-29.
- Goujon A & **KC S** (2008). The past and future of human capital in South-east Asia: From 1970 to 2030. *Asian Population Studies*, 4(1):31-56. (Published online 20 March 2008).
- Lutz W, Goujon A, **KC S** & Sanderson W (2007). Reconstruction of populations by age, sex and level of educational attainment for 120 countries for 1970-2000. *Vienna Yearbook of Population Research 2007*, 5:193-235. (Published online 11 December 2007).
- Shrestha, N., **S. KC**, R. Baltussen, K.K. Kafle, D. Bishai, and L. Niessen. 2006. Practical approach to lung health in Nepal: Better prescribing and reduction of cost. *Tropical Medicine and International Health* 11(5): 765-772.
- Mohan CI, Bishai D, **Kumar S**, ten Asbroek G, Niessen L. Changes in utilization of TB health services in Nepal. *International Journal of Tuberculosis and Lung Disease*. 2005 Sep;9(9):1054-6.
- Bishai D, **Kumar KC S**, Waters H, Koenig M, Katz J, Khatry SK, West KP Jr. The impact of vitamin A supplementation on mortality inequalities among children in Nepal. *Health Policy and Planning* 2005 Jan; 20(1): 60-6.

Conference presentations/posters (since 2010)

- *Projecting the regional explicit socioeconomic heterogeneity in India*. European Population Conference. 31st Aug-3rd Sep 2016, Mainz, Germany
- *Projecting the regional explicit socioeconomic heterogeneity in India*. Eurostat-UNECE Work Session on Demographic Projections, 18-20 April 2016, Geneva, Switzerland
- *Projecting the Regional Explicit Socioeconomic Heterogeneity in India*. Population Association of America 2016 Conference, 31st March – 2nd April, 2016, Washington DC, USA.
- *Demography, Human Capital and Applications*. Peking University, 22nd March, 2016. Beijing, China.
- *Projecting the regional explicit development of the population structure and social heterogeneity in Nepal*. British Society for Population Studies 2015 Conference, September 7, 2015, Leeds, UK.
- *Projecting Population at Spatial Level in Nepal and its Application in the Health Sector Planning*. The 3rd APA conference. August 28, 2015, Kuala Lumpur, Malaysia.
- *New Set of Projections of Population by Age, Sex, and Educational Attainment - Demographic and Human Capital Implications in Asia*. The 3rd APA conference. August 28, 2015, Kuala Lumpur, Malaysia.
- *Multi-Dimensional Population Projection: Adding New Dimensions to Age and Sex*. Seminar at JY Pillay Comparative Asia Research Centre (JY CARC), September 25, 2014, NUS, Singapore
- *Results of the New Wittgenstein Centre Population Projections by Age, Sex and Level of Education for 171 Countries*. Joint Eurostat/UNECE Work Session on Demographic Projections, October 31, 2013, Rome, Italy.
- *New Set of Population Projections by Age, Sex, and Educational Attainment for 171 Countries of the World: Methods and Challenges*. XI Conference of Young Demographers, September 19, 2013, Krakow, Poland.
- *Good Data on Educational Attainment is Hard to Find: The Story behind the WIC-2012 Dataset*. XXVII International Population Conference of the International Union for the Scientific Study of Population (IUSSP), August 30, 2013, Busan, ROK.
- *Issues in Projections of Education Composition for China, India, and Indonesia*. JY Pillay Comparative Asia Research Centre (JY CARC) conference “40% of the World: Population Change, Human Capital and Development in China, India, and Indonesia”, May 23, 2013, Singapore.
- *Differential Fertility by Level of Education in DHS Countries*. Annual Meeting of the Population Association of America (PAA), April 11, 2013, New Orleans, USA.
- *World Population and Human Capital: Challenges and Opportunities*. 4th Meeting of the High Level Panel of Eminent Persons on the Post-2015 Development Agenda (HLPEP), March 26, 2013, Nusa Dua-Bali, Indonesia.
- *The Effect of Education, Adult Health and Disability in Pakistan: A Sub-national Perspective and Projection of Population by Level of Educational Attainment, Age, and Sex for Turkey, 2000-2050*. European Population Conference (EPC), June 13-15, 2012, Stockholm, Sweden.
- *New Set of Projections of Population by Age, Sex, and Educational Attainment - Demographic and Human Capital Implications in Asia*. Asian Population Association (APA) Conference, August 28, 2012, Bangkok, Thailand.
- *Healthy Ageing and Educational Attainment of Elderly*. Conference "Advances in Methodology and Applications: Bio-demography and Multistate Event History Analysis on Healthy Aging" organised by Peking University (PKU) and China Population and Development Research Center (CPDRC), October 15, 2012, Peking University, Beijing, China.
- *IIASA's Education Projections*. Asian MetaCentre Workshop on Differential Vulnerability to Flooding Events, 25 February, 2010, Phuket, Thailand.
- *The Relationship Between Education and Adult Disability and Population Projections*. 22nd REVES Conference, 20 May, 2010, Havana, Cuba.