

Patrick Gerland

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EDUCATION

<i>Princeton University - Office of Population research, Princeton, USA</i>	
Ph.D. in the Program in Population Studies	2005
<i>Univ. Paris-I Panthéon Sorbonne – Institut de Démographie de l'Université de Paris (IDUP), France</i>	
M.A. in Demography - DESS d'Expert Démographe	1987
<i>Université René Descartes Paris-V, France</i>	
B.A. in Sociology	1985

RESEARCH INTERESTS

- Dissertation Topic: "Effects of social interactions on individual HIV/AIDS attitudes and behaviors in rural Malawi". Advisor: Joshua Goldstein. Additional Committee Members: Susan Watkins and German Rodriguez
 - HIV/AIDS, social demography, social networks and social participation – research collaborator since 2001 in the Malawi Diffusion and Ideational Change Project (organized by the University of Pennsylvania and the College of Medicine of Malawi)
 - Direct and indirect mortality and fertility estimations, parametric demographic models and population reconstructions and projections – active collaboration with researchers from the Univ. of Washington research group on Bayesian Melding and the Dept. of Statistics of the Univ. of Singapore on modeling uncertainty in demographic estimates and projections, University of Pennsylvania on modeling age pattern of under-five mortality and Louvain-la-Neuve on adult mortality estimation in Africa.
 - Small area statistics and geospatial statistical analysis
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POSITIONS

<i>United Nations Population Division - Population Estimates and Projection Section, New York, USA</i>	
Population Affairs Officer	2010 – Present
Prepare estimates and projections for national, rural, urban and city populations; evaluate and adapt new methodologies for demographic analysis and forecasting; draft technical studies and research reports on population trends, especially in the context of the UN <i>World Population Prospects</i> , and <i>World Urbanization Prospects</i> bi-annual assessments and revisions.	2004 – 2009
<i>United Nations Population Division - Population Policy Section, New York, USA</i>	
Population Affairs Officer	2009 – 2010
Monitor, report, and analyze information on the development and implementation of population policies in selected countries ; improve the tools and processes for the preparation and dissemination of the United Nations World Population Policies, and results of the official inquiry conducted every five years on trends in Governments' views and policies on population.	
<i>United Nations Statistics Division – Social and Demographic Statistics Branch, New York, USA</i>	
Consultant on Demographic Statistics and Databases	2000
Assist in the creation of a new Intranet version of the UN Demographic Yearbook Database	
<i>United Nations Statistics Division – Social and Demographic Statistics Branch, New York, USA</i>	
CD-ROM Software Consultant	1999
Design and production of the CD-ROM edition of United Nations Demographic Yearbook Historical Supplement (1948-1997)	
<i>United Nations Statistics Division – Technical Cooperation Branch, New York, USA</i>	
Computer Software Specialist	1989-1998
Prepare technical papers, software documentation and support materials; conduct	

training workshops and provide technical assistance on data collection and processing for census, surveys and civil registration, indirect demographic estimates, population projections, demographic software applications, development of population databases, and geographic information systems.

BETURE-SETAME - IAURIF, Paris, France

Research Analyst

1988-1989

Production of population projections and socio-economic and demographic studies for the Greater Paris regional urban development planning and research institute.

Statistics Canada - Demographic Division, Ottawa, Canada

Consultant

1988

Development and evaluation of software and techniques for population projections, demographic simulations and parametric models for national and provincial projections of the Canadian population.

PUBLICATIONS IN PEER-REVIEW JOURNALS

- Li, N., R. Lee, and P. Gerland (2013). "Extending the Lee-Carter Method to Model the Rotation of Age Patterns of Mortality Decline for Long-Term Projections". *Demography*, 50:2037–2051. doi:10.1007/s13524-013-0232-2
- Gu, D., P. Gerland, K. Andreev, N. Li, T. Spoorenberg, G. Heilig (2013). "Old Age Mortality in Eastern and South-Eastern Asia". *Demographic Research*, 29(38), 999-1038. doi: 10.4054/DemRes.2013.29.38
- Raftery, A. E., L. Alkema, and P. Gerland (2013). "Bayesian Population Projections for the United Nations". *Statistical Science*, in press. doi: <http://www.e-publications.org/ims/submission/index.php/STS/user/submissionFile/13954?confirm=bafd1514>
- Raftery, A. E., J. E. Chunn, P. Gerland, and H. Ševčíková (2013). "Bayesian Probabilistic Projections of Life Expectancy for All Countries". *Demography*, 50(3), 777-801. doi: 10.1007/s13524-012-0193-x
- Wheldon, M. C., A. E. Raftery, S. J. Clark, and P. Gerland (2013). "Reconstructing Past Populations with Uncertainty from Fragmentary Data". *Journal of the American Statistical Association*, 108(501), 96-110. doi: 10.1080/01621459.2012.737729
- Raftery, A. E., N. Li, H. Ševčíková, P. Gerland, and G. K. Heilig (2012). "Bayesian probabilistic population projections for all countries". *Proceedings of the National Academy of Sciences*, 109(35), 13915-13921. doi: 10.1073/pnas.1211452109
- Guillot, M., P. Gerland, F. Pelletier, and A. Saabneh (2012). "Child Mortality Estimation: A Global Overview of Infant and Child Mortality Age Patterns in Light of New Empirical Data". *PLoS Medecine*, 9(8), e1001299. doi: 10.1371/journal.pmed.1001299
- Alkema, L., A. E. Raftery, P. Gerland, S. J. Clark, and Pelletier, F. (2012). "Estimating Trends in the Total Fertility Rate with Uncertainty Using Imperfect Data: Examples from West Africa." *Demographic Research*, 26(15):331-362. doi: 10.4054/DemRes.2012.26.15
- Dionne, K.Y., P. Gerland, S. Watkins (2011). "AIDS Exceptionalism: Another Constituency Heard From." *AIDS and Behavior*, 1-7 ; doi: 10.1007/s10461-011-0098-5
- Alkema, L., A.E. Raftery, P. Gerland, S.J. Clark, F. Pelletier, T. Buettner, and G. K. Heilig (2011). "Probabilistic Projections of the Total Fertility Rate for All Countries". *Demography*, 48, 815–839 ; doi: 10.1007/s13524-011-0040-5
- Brown, T., L. Bao, A.E. Raftery, J.A. Salomon, R.F. Baggaley, J. Stover, and P. Gerland (2010). "Modelling HIV epidemics in the antiretroviral era: the UNAIDS Estimation and Projection package 2009. *Sexually Transmitted Infections*. October 2010, Volume 86, Supplement 2, pp. ii3-ii10; doi: 10.1136/sti.2010.044784 - http://sti.bmj.com/content/86/Suppl_2.
- Bongaarts, J., F. Pelletier, and P. Gerland. (2010). "How many more AIDS deaths?" Paper published in *Lancet* 375(9709):103-104. doi: 10.1016/S0140-6736(09)61756-6
- Weinreb, A., P. Gerland, and P. Fleming (2008). "Hotspots and Coldspots: Household and Village-level Variation in Orphanhood Prevalence in Rural Malawi". *Demographic Research*. Volume 19 - Article 32. 1217–1248. 15 Jul 2008. doi:10.4054/DemRes.2008.19.32.
- Gerland, P., D.M. Vu, S. Kohút and K. Irová (2000). "Applications of geographical and statistical databases for population activities: some strategies and experiences." *The Journal of Cities and Regions, SCORUS, GIS*

BOOK CHAPTERS

- Reniers, G., B. Masquelier, P. Gerland (2011). "Chapter 24: Adult mortality trends in Africa". Book chapter prepared for the *International Handbook of Adult Mortality*, Richard G. Rogers and Eileen M. Crimmins (eds.), Springer. - PWP-OPR-2010-002 (<http://papers.ccpr.ucla.edu/download.php?paper=PWP-OPR-2010-002>)
- Bongaarts, J., F. Pelletier, and P. Gerland (2011). "Chapter 7: Global Trends in AIDS Mortality". Book chapter prepared for the *International Handbook of Adult Mortality*, Richard G. Rogers and Eileen M. Crimmins (eds.), Springer. 2011. – Presented as paper at the Population Association of America 2010 Annual Meeting - 15-17 April 2010, Dallas, Texas. - <http://paa2010.princeton.edu/download.aspx?submissionId=100600>

CONFERENCE PAPERS

- Sevcikova, H., Raftery, A. R., & Gerland, P. (2013). *Bayesian probabilistic population projections: do it yourself*. Paper presented at the Joint Eurostat/UNECE Work Session on Demographic Projections, Rome, Italy. http://www.unece.org/fileadmin/DAM/stats/documents/ece/ces/ge.11/2013/WP_13.2.pdf
 - Gerland, P., T. Spoorenberg, J. Bravo, P. Lattes, C. Sawyer, V. Kantorova, M. S. Lai (2013). "Uses of Census Microdata by the United Nations Population Division". Paper presented at the KOSTAT pre-event to the *XXVII IUSSP International Population Conference* on "Using Census Micro-data for Demographic Research" (Aug 23-25, 2013), Busan, Republic of Korea.
 - Li, N., and P. Gerland (2013). "Using census data to estimate old-age mortality for developing countries". Paper presented at the *XXVII IUSSP International Population Conference*, Busan, Republic of Korea. http://www.iussp.org/sites/default/files/event_call_for_papers/Li-Gerland_2013_IUSSP-Using%20census%20data%20to%20estimate%20old-age%20mortality%20for%20developing%20countries.pdf
 - Gu, D., P. Gerland, K. Andreev, N. Li, T. Spoorenberg, G. Heilig (2013). "Growth Patterns of World's Cities Since 1950". Paper presented at the *XXVII IUSSP International Population Conference*, Busan, Republic of Korea. <http://www.iussp.org/en/event/17/programme/paper/3200>.
 - Gu, D., P. Gerland, K. Andreev, N. Li, T. Spoorenberg, G. Heilig (2013). "Old Age Mortality in Eastern and South-Eastern Asia". Paper presented at the *XXVII IUSSP International Population Conference*, Busan, Republic of Korea. http://www.iussp.org/sites/default/files/event_call_for_papers/Gu%20et%20al%2013_IUSSP_Old%20Age%20Mortality_Abstract.pdf
 - Wheldon, M. C., A. E. Raftery, S. Clark, P. Gerland (2013). "Bayesian Reconstruction of Past Populations and Vital Rates by Age for Developing and Developed Countries". Paper presented at the *XXVII IUSSP International Population Conference*, Busan, Republic of Korea. http://www.iussp.org/sites/default/files/event_call_for_papers/BayesianReconstruction_IUSSP2013.pdf
 - Alkema, L., A. E. Raftery, P. Gerland (2013). "Ultimate fertility levels: a modified projection method for low fertility countries". Paper presented at the *XXVII IUSSP International Population Conference*, Busan, Republic of Korea. http://www.iussp.org/sites/default/files/event_call_for_papers/Busan2013_TFasymptote.pdf
 - Spoorenberg, T., P. Gerland (2013). "Fertility Transition Across Asia". Paper presented at the *XXVII IUSSP International Population Conference*, Busan, Republic of Korea.
 - Gerland, P. (2013). "UN Population Division's Methodology in Preparing Base Population for Projections: case study for India". Paper presented at the *JYP Comparative Asia Research Centre, NUS Global Asia Institute Conference on "40 per cent of the world: population change, human capital and development in China, India and Indonesia"* – 22-24 May 2013, Singapore.
 - Gu, D., P. Gerland, K. Andreev, N. Li, T. Spoorenberg, and G.K. Heilig (2013). "Global Distribution and Risks of Exposures of World's Cities to Natural Hazards, Air Pollution and Climate Change". Paper presented at the *Annual Meeting of the Population Association of America* – 11-13 April 2013, New Orleans, LA. <http://paa2013.princeton.edu/papers/130456>
 - Gu, D., P. Gerland, K. Andreev, N. Li, T. Spoorenberg, and G.K. Heilig (2013). "Old Age Mortality in Eastern and South-Eastern Asia". Paper presented at the *Annual Meeting of the Population Association of America* – 11-13 April 2013, New Orleans, LA. <http://paa2013.princeton.edu/abstracts/130455>
 - Wheldon, M. C., A. E. Raftery, S.J. Clark, and P. Gerland (2013). Bayesian Reconstruction of Past Populations and Vital Rates by Age for Developing and Developed Countries. Paper presented at the *Annual Meeting of the Population Association of America* – 11-13 April 2013, New Orleans, LA. <http://paa2013.princeton.edu/papers/130303>
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- Raftery, A.E., N. Lalic, and P. Gerland (2012). "Joint Probabilistic Projection of Female and Male Life Expectancy". Paper presented at the *Annual Meeting of the Population Association of America*, - 3-5 May 2012, San Francisco, CA. - <http://paa2012.princeton.edu/download.aspx?submissionId=120140>
 - Wheldon, M.C., A.E. Raftery, S.J. Clark, and P. Gerland (2012). "Reconstructing Population Dynamics of the Recent Past, with Uncertainty, from Fragmentary Data" - Paper presented at the *Annual Meeting of the Population Association of America*, - 3-5 May 2012, San Francisco, CA. - <http://paa2012.princeton.edu/download.aspx?submissionId=120146>
 - Ye, L., P. Gerland, T. Spoorenberg, K. Vladimira, and K. Andreev (2011). "Graduation methods to derive age-specific fertility rates from abridged data: a comparison of 10 methods using HFD data." Paper presented at the *First Human Fertility Database Symposium*. Rostock, Germany. <http://www.humanfertility.org/Docs/Symposium/Liu-Gerland%20et%20al.pdf>
 - Gu, D., N. Li, P. Gerland, K. Andreev, T. Spoorenberg, J. Zhou, C.S. Yamarthy, and G.K. Heilig (2011). Growth Pattern of China's Cities Since 1950. Paper presented at the *IUSSP seminar on Internal Migration and Urbanization and Their Socioeconomic Impacts in Developing Countries: Challenges and Policy Responses* in Fuzhou, China. October 2011. <http://www.iussp.org/members/restricted/publications/Fuzhou11/programme11.php>
 - Li, N and P. Gerland (2011). *Modifying the Lee-Carter method to project mortality changes up to 2100*, presented at the *Annual Meeting of the Population Association of America*, - 21 March-2 April 2011, Washington DC.
 - Heilig, G.K., T. Buettner, N. Li, P. Gerland, L. Alkema, J. Chunn, A.E. Raftery (2010). "A stochastic version of the United Nations World Population Prospects: methodological improvements by using Bayesian fertility and mortality projections". - Paper presented at the United Nations Statistical Commission and Economic Commission for Europe. Statistical Office of the European Union (Eurostat). *Conference of European Statisticians. Joint Eurostat/UNECE Work Session on Demographic Projections*. 28-30 April 2010, Lisbon, Portugal. Item 6 – Forecasting demographic components: fertility. - <http://www.unece.org/stats/documents/ece/ces/ge.11/2010/wp.14.e.pdf>
 - Bongaarts, J., F. Pelletier and P. Gerland (2010). "Global Trends in AIDS Mortality". - Paper presented at the *Population Association of America 2010 Annual Meeting* - 15-17 April 2010, Dallas, Texas. - <http://paa2010.princeton.edu/download.aspx?submissionId=100600> and Population Council *Poverty, Gender, and Youth Working Paper 2009/16* <http://www.popcouncil.org/pdfs/wp/pgy/016.pdf>
 - Wheldon, M.C., A.E. Raftery, S.J. Clark, and P. Gerland (2010). "A Bayesian Model for Estimating Population Size and Demographic Parameters with Uncertainty" - Paper presented at the *Population Association of America 2010 Annual Meeting* - 15-17 April 2010, Dallas, Texas. - <http://paa2010.princeton.edu/download.aspx?submissionId=100654>
 - Chunn, J.L., A.E. Raftery, and P. Gerland (2010). "Bayesian Probabilistic Projections of Mortality". - Paper presented at the *Population Association of America 2010 Annual Meeting. Dallas, TX. 15-17 April 2010*. - <http://paa2010.princeton.edu/download.aspx?submissionId=101753>
 - Alkema, L., A.E. Raftery, P. Gerland, S.J. Clark, F. Pelletier, (2009). "Probabilistic projections of the total fertility rate"- Paper presented at the *XXVI IUSSP International Population Conference - 27-2 Oct. 2009*, Marrakech, Morocco. -<http://iussp2009.princeton.edu/download.aspx?submissionId=93084>
 - Alkema, L., A.E. Raftery, P. Gerland, S.J. Clark, F. Pelletier (2009). "Estimating the total fertility rate in developing countries". Paper presented at the *XXVI IUSSP International Population Conference - 27-2 Oct. 2009*, Marrakech, Morocco. - <http://iussp2009.princeton.edu/download.aspx?submissionId=93032>
 - Li, N, and P. Gerland (2009). "Modelling and projecting the postponement of childbearing in low-fertility countries". Paper presented at the *XXVI IUSSP International Population Conference - 27-2 Oct. 2009*, Marrakech, Morocco. - <http://iussp2009.princeton.edu/download.aspx?submissionId=90315>
 - Heilig, G.K., P. Gerland, N. Li, V. Kantorova, P. Lattes, T. Gjaltema (2009). "The 2008 Revision of the United Nations World Population Prospects: Challenges in Estimating and Projecting the World's Population". Paper presented at the *XXVI IUSSP International Population Conference - 27-2 Oct. 2009*, Marrakech, Morocco. - <http://iussp2009.princeton.edu/download.aspx?submissionId=90664>
 - Alkema, L., A.E. Raftery, P. Gerland, S.J. Clark, F. Pelletier (2009). "Estimating the Total Fertility Rate from Multiple Imperfect Data Sources and Assessing Its Uncertainty". Paper presented at the *Population Association of America 2009 Annual Meeting*. Detroit, MI – 30 April – 2 May 2009. - <http://paa2009.princeton.edu/download.aspx?submissionId=91663>
 - Alkema, L., A.E. Raftery, P. Gerland, S.J. Clark, P. Pelletier (2008). "Assessing Uncertainty in Fertility Estimates and Projections". Paper presented at the *Population Association of America 2008 Annual Meeting*. New Orleans,
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LO - 17-19 April 2008. - <http://paa2008.princeton.edu/download.aspx?submissionId=80115>

- Gerland, P., J. Kaphuka, G. Mandere, H. Misiri, P. Fleming (2007). "Adult Mortality Estimations from Cohort and Census/Survey data: a comparison of direct and indirect methods in rural Malawi". Paper presented at the *UAPS 5th African Population Conference* (Arusha, Tanzania). - <http://uaps2007.princeton.edu/download.aspx?submissionId=70706>
- Gerland, P., F. Pelletier and T. Buettner (2006). "Levels and Trends in Adult Background Mortality in Sub-Saharan Africa" - Paper presented at the *2006 Annual Meeting of the Population Association of America*, Los Angeles.
- Weinreb, A., P. Gerland, and P. Fleming (2006). "HIV prevalence and orphan household distribution in a rural Malawi district" - Paper presented at the *2006 Annual Meeting of the Population Association of America*, Los Angeles.
- Gerland, P. (2005). "Modeling gains in life expectancy by sex in 228 countries from 1950 to 2050 in the 2004 Revision of the United Nations World Population Prospects". Paper presented at the *Joint EuroStat-UNECE Works Session on Demographic Projections*, Vienna.
- Gerland, P. and P. Fleming (2004). "HIV Prevalence and Orphan Household Distribution in Rural Malawi". Paper presented at the *2004 ESRI International Health GIS Conference*, Washington.
- Gerland, P. (2004). "Do Social Interactions Affect Individual HIV/AIDS Attitudes and Prevention Strategies in Rural Malawi?". Paper presented at the *2004 Annual Meeting of the Population Association of America*, Boston (MA, USA). - <http://paa2004.princeton.edu/download.aspx?submissionId=41794>
- Gerland, P. (2001). "Impact of the AIDS epidemic on orphanhood and family structure in the Sub-Saharan context." Paper presented at *2001 Annual Meeting of the Population of America*, Washington.
- Gerland, P. and R. Ulrich (2001). "Dynamics of Change in HIV Prevalence among Pregnant Women in Sub-Saharan Africa." Paper presented at *2001 Annual Meeting of the Population of America*, Washington.
- Gerland, P. and D.M. Vu (1999). "Software Development and Recent Technological Innovations for Geographical and Statistical Applications for Population Activities." Paper presented at the *First International Health Geographics Conference - Mapping Health into the Future* organized by The Johns Hopkins University School of Public Health. Baltimore, Maryland, 16-18 October 1998. 25 pages. Proceedings published in *The Infectious Disease Review* (Supplement No. 2. January 1999).
- Gerland, P. (1996). "Socio-economic data and geographic information systems: sources, scope, indicators and issues." Paper presented at the *Arendal III Workshop on Use of GIS in Agricultural Research (UNEP/CGIAR Cooperation)*. UNEP/GRID Arendal (Norway), 17-20 June, 1996. 28 pages.
- Gerland, P. and D.-E. Benzine (1995). "Accessing and Using the Internet." Paper presented at the *UNFPA / UNDESIPA TSS/CST Workshop on Data Collection, Processing, Dissemination and Utilization*. New York, 15-20 May 1995. 126 pages.
- Gerland, P., D. M. Vu and D. Castillo (1994). "PopMap – a step toward better utilization and dissemination of population data. Case Study of a National Census Atlas." Paper presented at the *Statistical Commission and Economic Commission for Europe, Conference of European Statisticians (Work Session on Geographical Information Systems)*. Voorburg, The Netherlands, Sept. 1994. 8 pages.
- Gerland, P. (1992). "Software Development: Past, Present and Future Trends and Tools." Paper presented at the *IUSSP Expert Meeting on Demographic Software and Micro-computing, Strategies for the Future*, The Hague, June 1992. 30 pages. Proceedings published by the International Union for the Scientific Study of Population, Liège. 1993, 2 vol.
- Gerland, P., M. Pageau and N. McGirr (1992). "Data processing strategies: hardware and software for form design, data entry, editing and tabulation." Paper presented at the *IUSSP Expert Meeting on Demographic Software Development*, The Hague, June 1992. 11 pages. Proceedings published by the International Union for the Scientific Study of Population, Liège. 2 vol.
- Gerland, P. (1987). "UCHRONIE: a use of Lotus 123 Spreadsheet for Annual Demographic Projections" - "UCHRONIE: Une utilisation du Tableur Lotus 123 pour des perspectives démographiques annuelles" in *INED - CNRS - Instituts de Démographie, 1987. Les Projections Démographiques, Actes du VIIIe Colloque national de Démographie* (Grenoble, 5-7 Mai 1987), Paris, P.U.F., Travaux et Documents: n° 122, Tome II, 1988; pp 235-239.

REPORTS AND WORKING PAPERS

- Wheldon, M.C., A. E. Raftery, S. J. Clark, P. Gerland (2011). "Bayesian Reconstruction of Two-Sex Populations by Age: Estimating Sex Ratios at Birth and Sex Ratios of Mortality". Working Paper no. 138. Center for Statistics and

the Social Sciences. University of Washington. Dec. 2013 - <http://www.csss.washington.edu/Papers/wp138.pdf> and <http://arxiv.org/abs/1312.4594>

- Wheldon, M.C., A. E. Raftery, S. J. Clark, P. Gerland (2011). "Estimating Demographic Parameters with Uncertainty from Fragmentary Data". Working Paper no. 108. Center for Statistics and the Social Sciences. University of Washington. 1 march, 2011 - <http://www.csss.washington.edu/Papers/wp108.pdf>
- Dionne, K.Y., P. Gerland, S. Watkins (2010). "AIDS Exceptionalism: The View From Below". Univ. of California, Los Angeles - California Center for Population Research Working Paper (PWP-CCPR-2009-046) - <http://papers.ccpr.ucla.edu/download.php?paper=PWP-CCPR-2009-046>
- Chunn, J.L., A.E. Raftery, and P. Gerland (2010). "Bayesian Probabilistic Projections of Life Expectancy for All Countries". Working Paper no. 105. Center for Statistics and the Social Sciences. University of Washington. October 28, 2010 - <http://www.csss.washington.edu/Papers/wp105.pdf>
- Alkema, L., A.E. Raftery, P. Gerland, S.J. Clark, F. Pelletier, T. Buettner (2010). "Probabilistic Projections of the Total Fertility Rate for All Countries". Working Paper no. 97. Center for Statistics and the Social Sciences. University of Washington. January 28, 2010 - <http://www.csss.washington.edu/Papers/wp97.pdf>
- Raftery, A.E., L. Buettner, P. Gerland, S.J. Clark, F. Pelletier, T. Buettner, G.K. Heilig, N. Li, H. Sevcikova (2009). "White Paper: Probabilistic Projections of the Total Fertility Rate for All Countries for the 2010 World Population Prospects". UN/POP/EGM-FERT/2009/16. Paper presented at the *Expert Group Meeting on Recent and Future Trends in Fertility*. New York, 2-4 December 2009 held by the United Nations, Department of Economic and Social Affairs, Population Division. - http://www.un.org/esa/population/meetings/EGM-Fertility2009/P16_Raftery.pdf
- Gerland, P. (2000). *United Nations Demographic Yearbook: Historical Supplement. 1st issue, DYB-CD, data from 1948 to 1997*, New York, March 2000. Prepared for the United Nations Statistics Division, DESA. Document ST/ESA/STAT/SER.R/CD/28. ISBN 92-1-151335-9 and ISSN 1020-7953.
- Gerland, P., D.M. Vu and D. Castillo (1998). *Users Guides for PopMap for Windows - Integrated Software Package for Geographical Information, Maps and Graphics Database and MapScan for Windows - Software Package for Automatic Map Data Entry*. United Nations Statistics Division. New York.

CONFERENCE POSTERS AND PRESENTATIONS

- Andreev, K., D. Gu, and P. Gerland (2013). "Patterns of Mortality Improvement by Level of Life Expectancy at Birth". Poster presented at the *Annual Meeting of the Population Association of America*, New Orleans, LA. <http://paa2013.princeton.edu/papers/132554>
- Alkema, L., A. Raftery, and P. Gerland (2013). "Ultimate Fertility Levels: A Modified Projection Method for Low Fertility Countries". Poster presented at the *Annual Meeting of the Population Association of America*, New Orleans, LA. <http://paa2013.princeton.edu/papers/130805>
- Alkema, L., J.L. Chunn, P. Gerland, D. Gu, and G.K. Heilig (2012). "Bayesian Population Projections for Every City in the World." Poster presented in *Annual Meeting of the Population Association of America*. San Francisco, CA: Population Association of America. <http://paa2012.princeton.edu/download.aspx?submissionId=121511>
- Gu, D., P. Gerland, K.F. Andreev, N. Li, T. Spoorenberg, C.S. Yamarthy, and G.K. Heilig (2012). "Patterns of Growth and Distributions of World's Cities: 1950-2025." Poster presented in *Annual Meeting of the Population Association of America*. San Francisco, CA: Population Association of America. - <http://paa2012.princeton.edu/download.aspx?submissionId=122165>
- Alkema, L., P. Gerland, and T. Buettner (2011). "Probabilistic Projections of Urbanization for All Countries." Poster presented in *Annual Meeting of the Population Association of America*. Washington, DC: Population Association of America. - <http://paa2011.princeton.edu/download.aspx?submissionId=110768>
- Chunn, J.L., A.E. Raftery, P. Gerland (2009). "Bayesian Probabilistic Projections of Mortality". – Poster presented at the *Population Association of America 2009 Annual Meeting*. Detroit, MI – 30 April – 2 May 2009. - <http://paa2009.princeton.edu/download.aspx?submissionId=90851>
- Dionne, K.Y., P. Gerland, and S. Watkins (2009). "AIDS Exceptionalism: The View From Below". Poster presented at the *Population Association of America 2009 Annual Meeting*. Detroit, MI – 30 April – 2 May 2009. - <http://paa2009.princeton.edu/download.aspx?submissionId=91912>
- Gerland, P. (2008). "Incorporating changing Urban-Rural population ratio in EPP (June 2006) using WUP 2007 Revision". Presentation at the meeting of the *UNAIDS/WHO Reference Group on Estimates, Modelling and Projection*. Imperial College, London, U.K. (28-29 Feb 2008).
- Gerland, P. and S. Watkins (2007) – "Daily Conversation Logs and Diaries in Rural Malawi: New Insights about

Topics and Patterns of Social Interactions in Ethnographic Journals 1999-2005" - Poster presented at *the 2007 Annual Meeting of the Population Association of America*, New York and *International Sunbelt Social Network Conference* (INSNA – Sunbelt XXVII) – Corfu.

- Gerland, P. (2005). "From Divergence to Convergence in Sex Differentials in Adult Mortality in Developed Countries" – Poster presented at the *2005 Annual Meeting of the Population Association of America*, Philadelphia (<http://paa2005.princeton.edu/download.aspx?submissionId=50501>) and at the *2005 International Union for the Scientific Study of Population*, Tours (<http://iussp2005.princeton.edu/download.aspx?submissionId=52475>).
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LECTURES – SEMINARS

"Probabilistic Projections of the Total Fertility Rate for All Countries: an introduction to the new 2010 UN fertility projection model" - http://esa.un.org/unpd/wpp/Documentation/pdf/Gerland-Alkema_2011_ALAP-Rio_TFR-projection-model.pdf

"Lessons learned and applications of the 2010 UN fertility projection methodology" -

http://esa.un.org/unpd/wpp/Documentation/pdf/Gerland_2011_ALAP-Rio_Application-UN-projection-model.pdf

- *International seminar on Population Estimates and Projections: methodologies, innovations and estimation of target population applied to public policies* (Session 1: Innovations in the Population Projections at the UN Population Division: Methods, advances and challenges) organized by the Latin American Population Association (ALAP) - Research Network on Population Estimates and Projections, and the National School of Statistics (ENCE) of the Brazilian Institute of Geography and Statistics (IBGE), Rio de Janeiro (Brazil), 9 -11 November 2011).

"Issues, challenges and findings in reconstructing mortality patterns by age and sex for five South-Asian countries since 1950: India, Bangladesh, Pakistan, Sri Lanka and Maldives" -

http://esa.un.org/unpd/wpp/ppt/Gerland/Gerland_20110916_CGHR.pdf

- Center for Global Health Research, Li Ka Shing Knowledge Institute, St. Michael's Hospital (Toronto, ON, Canada). CGHR seminar (September 16, 2011)

"Issues, models and assumptions in projecting 230 countries/areas: insights from the UN World Population Prospects"

- Princeton University. Office of Population Research (Princeton, NJ). ECO 572/SOC 532 - Research Methods in Demography (April 21, 2010)
- University of Washington. Center for Statistics and the Social Sciences (Seattle, WA). PPgp Seminar (May 21, 2009)
- Harvard School of Public Health. Department of Global Health and Population (Boston, MA). Intro to Demo Methods (Dec. 8, 2008)

"International forensic population estimations: challenges and analytical strategies to reconstruct national demographic trends and levels since 1950 for 230 countries/areas"

- CUNY Graduate Center (New York, NY). CUNY Institute for Demographic Research (CIDR). 2010-11 seminar in Health, Labor and Demography series (February 19th, 2010)
- University of Washington. Center for Studies in Demography and Ecology (Seattle, WA). CSDE Seminar (May 22, 2009)
- Harvard School of Public Health, Dept of Global Health and Population (Boston, MA). Seminar - (Dec. 8, 2008)

"Estimation of robust demographic time-series with noisy data for developing countries: selected cases studies from Africa and Asia"

- University of Washington. Center for Statistics and the Social Sciences (Seattle, WA). CSSS Seminar (May 20, 2009)
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PH.D. DISSERTATION COMMITTEE MEMBER

- 2012-: Andrea Verhulst, F.R.S.-F.N.R.S. Research Fellow and PhD Student, Research Centre in Population and Societies, SSH/IACS, Collège Jacques Leclercq, Louvain-la-Neuve (Belgium)
 - 2009-: Qing Li, Ph.D candidate in System Engineering, School of System and Enterprises, Stevens Institute of
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UN INTERNSHIP SUPERVISION

- 2012 – Thillard, Julien (Master in Demography, Institut de Demographie de l'Universite de Paris I-Pantheon-Sorbonne, France): Modeling international net migration flows - Experience and lessons learned applying Joel Cohen's gravity model to net migration flow matrices by origin-destination
 - 2011 – Ye, Liu (Master in Statistics, Colombia University, NY). Comparison of 10 graduation methods to derive age-specific fertility rates from abridged data using the Human Fertility Database
 - 2010 – Cunningham, Kevin (Master degree in applied statistics, Oxford University and Ph.D. student in political science, Trinity College Dublin, Ireland): Forecasting foreign-born age profiles using the Box-Cox Power Exponential Model
 - 2010 – Lee, Jeeyeon (Master in Quantitative Methods and Modeling, Baruch college, City University of New York, NY): review and analysis of national population policies and meta-analysis of post-enumeration surveys
 - 2009 – Ortega, Ruth Ludmilla (Master on Information Sciences, Journalism, from the University Complutense of Madrid, Spain, and doctoral research in International Relations in the Department of Sociology at Harvard University): meta-analysis and preparation of a research dataset on major events with potentially significant national demographic impacts since the 1950s (e.g., independence, major political changes, major natural disasters, major conflicts or crises, famines, etc.)
 - 2009 – Li, Qing (Master in Financial Engineering, Stevens Institute of Technology, NJ): research on model life tables and 2/4 parameters relational logit transformation models
 - 2008 – Zuo, Jiaming (Master in Mathematics, Shanghai Jiaotong University, PRC) benchmarking of three state-of-the-art transformation methods from abridged to complete life table
 - 2007 – Qi, Wu (Ph.D candidate in Statistics, University of South Carolina, USA): robust statistical modeling of time series of demographic rates by age and sex incorporating experts' opinion
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TRAINING WORKSHOPS

- 2013 (21-27 July): Kabul (Afghanistan): provision of technical assistance to the Central Statistical Office (CSO) of Afghanistan and conducted a training workshop for 15 Afghan professionals on population estimates and projections for the Afghan CSO.
 - 1987-1998: Conduct, organization and participation as co-lecturer in 25 training workshops sponsored by United Nations agencies in Asia and Africa (English and French-speaking countries), and ISPC/US Bureau of Census for 350 statisticians, demographers, administrators and decision-makers on microcomputer technology and software use and applications related to population activities (i.e. census and survey data entry and data processing, demographic estimations and projections, statistical databases and geographical information systems).
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REVIEWER FOR ACADEMIC JOURNALS

- African Population Studies (since 2010)
- Asian Population Studies (since 2011)
- Bulletin of the World Health Organization (since 2009)
- Demographic Research (since 2009)
- Demography (Editorial board member since 2010)
- Economic Letters (since 2013)
- eLife (2012)
- European Journal of Population (since 2009)
- Global Health Action (2013)
- International Journal of Epidemiology (since 2008)
- PLoS Medecine (since 2013)
- PLoS PLoS One (since 2011)
- Population (since 2013)

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- Population Research and Policy Review (since 2009)
 - Population Studies (since 2012)
 - Science (since 2011)
 - Social Networks (since 2011)
 - Sexually Transmitted Infections (since 2012)

LANGUAGES

- French – native language
- English – speak fluently and read/write with high proficiency

MEMBERSHIPS

- Population Association of America (PAA)
 - International Union for the Scientific Study of Population (IUSSP)
 - Union for African Population Studies (UAPS)
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