



CONTACTS

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VLADIMIR M. SHKOLNIKOV

Former Head of and Research Scientist at the Laboratory of Demographic Data
Max Planck Institute for Demographic Research, Rostock, Germany

Scientific supervisor of the International Laboratory for Population and Health
Higher School of Economics, Moscow, The Russian Federation

JOB QUALIFICATION

Expertise in: demographic and epidemiological analyses of macro- and micro-data; demographic and medical statistics; methods for measurement and decomposition in demography; teaching on population and health; co-ordination of research activities, projects, and surveys.

SCIENTIFIC INTERESTS

Methods and empirical research on population and health; measurement and analysis of inter-individual and inter-group disparities in health; methods for decomposition in demography; convergence and divergence in demographic patterns across populations; biomarker studies on health and aging; mortality and health in Russia and Eastern Europe; study on health and social change; macro- and micro-level studies on alcohol and other determinants of premature death among adults.

PROFESSIONAL EXPERIENCE

Since July 2017	<u>Research Scientist at the Laboratory of Demographic Data</u> (<i>tenured</i>), Max Planck Institute for Demographic Research, Rostock (Germany)
Since April 2000	Head of the Laboratory of Demographic Data (<i>tenured</i>), Max Planck Institute for Demographic Research, Rostock (Germany)
Since January 2017	<u>Scientific Supervisor of the International Laboratory on Population and Health</u> (<i>temporary</i>), Higher School of Economics, Moscow (Russia)
2011-2016	Director of the Center for Demographic Research, New Economic School, Moscow (Russia)

1990–2000	Guest researcher, Institut national d'études démographiques, Paris, France.
1997–1999	Guest researcher, Center for Population and Development, Harvard School of Public Health, Cambridge, Ma (USA).
1997	Guest researcher, London School of Hygiene and Tropical Medicine.
1993–2000	Head of the Laboratory for Mortality Analysis and Forecasting, Center of Demography and Human Ecology at the Institute for Economic Forecasting of the Russian Academy of Sciences. Annual reports on population trends in Russia. Prognosis of mortality and population dynamics. Development of the data bases on health and socio–economic indicators for the Russian Federation and its regions. Epidemiological and demographic studies on mortality in Russia and Eastern Europe.
1991–1993	Head of the Laboratory for Demographic Analysis and Forecasting, Center of Demography and Human Ecology, Institute for Employment Studies of the USSR Academy of Sciences. Descriptive analyses of mortality and life expectancy. Reconstruction of the long–term mortality trends by cause of death in the countries of the ex–USSR. Co–ordination of works on demographic prognosis for Russia and its regions for the period of 1993–2015.
1989–1991	Senior research fellow, Department of Demography at the Institute for Socio–economic Studies of Population of the USSR Academy of Sciences. Monitoring and analyses of changes in mortality and life expectancy for all regions of the USSR. Development of computer programs for decomposition, construction of multiple decrement life tables and other techniques and their graphic presentation.
1987–1988	Head of the Department of Health Economics, Computational Center of the Health Ministry of the Russian Federation. Development of methods for estimation the costs of treatment across the set of standard diagnostic categories (adaptation of the US methodology). Study on determinants of the geographic mortality variation across Russia.
1981–1986	Programmer–statistician, head of a group at Computational Center of the Health Ministry of the Russian Federation. Production and analyses of medical and demographic statistics. Measurement and analysis of mortality and morbidity. Studies on spatial variation of mortality in the Russian Federation. Studies on modeling mortality curves for all-cause and cause-specific mortality.

EDUCATION

1987	<i>Kandidat nauk'</i> in social and economic geography, Institute for Geography of the Academy of Sciences of the USSR. Dissertation: Factors of the spatial mortality variation across Russia.
1981	Higher education in Applied Mathematics, Moscow Aerospace Institute (MAI).

KEY RESEARCH PROJECTS

2017-2019	Higher School of Economics project for establishing International Laboratory for Population and Health / Principal Applicant and Scientific supervisor.
2017-2019	Baltic Sea States project / Participant.
Since 2009	Human Fertility Database Project (www.humanfertility.org , www.fertility.org) / Co-Director.
Since 2009	Human Fertility Collection (www.lifetable.de) / Coordinator of project works.
Since 2000	Human Mortality Database Project (www.mortality.org) / Co-director and Director since 2014.
Since 2002	Human Life-Table Database (www.lifetable.de) / Coordinator of project works.
Since 2000	Kannisto-Thatcher Database on Old Age Mortality / Coordinator of project works.
2011-2016	Dynasty Foundation (Russia) Project for establishing a modern demographic laboratory in Russia / Applicant and scientific supervisor
2013-2018	Wellcome Trust Strategic Award Project “Cardiovascular disease in Russia: strengthening evidence about causes, mechanisms, prevention and treatment” co-financed by the Health Ministry of Norway and the University of Tromsö / Co-applicant, Responsible for Theme A.

¹ A scientific degree in the Soviet Union and Russia comparable but not exactly equivalent to Ph.D.

2013-2016	The ANR-DFG (French-German) project “From disparities in mortality trends to future health challenges” (DIMOCHA) / Scientific supervisor of project works at MPIDR.
2013-2015	The EU structural assistance to Lithuania project “Demographic differentials and their impact on sustainability of population change in Lithuania” / Participant.
2013–2015	The AXA project “Mortality divergence and convergence and causes of death” (MODICOD) / Co-applicant and coordinator of project works at MPIDR.
2008–2010	The ANR–DFG project “European Divergence and Convergence in Causes of Death” (EDICOD) / Scientific supervisor of project works at MPIDR.
2006–2012	The NIA/NIH project “Biodemography of Disease and Death in Moscow” / Coordinator of project works at MPIDR.
2006–2010	The Wellcome Trust Project “Alcohol and mortality in Russia: From aetiology to intervention” / <u>Co-Applicant</u> .
2002–2005	The Wellcome Trust project “Case–control study of levels of alcohol consumptions and socio-economic factors in relation to mortality among working–age men in Russia” / <u>Co–Principal Investigator</u>
2000–2003	INTAS project “Expectation of life and causes of death in different Republics of the ex–USSR: long term trends and recent changes” / Participant.
1999–2000	United Nations Development Program (UNDP) project on the Policies for the control of the transition’s mortality crisis in Russia / Applicant and scientific supervisor.
1998–1999	The project of the British Ministry for Foreign Affairs “Geographical patterns of public health in the former Soviet Union” / Co-applicant.
1997–1999	The Rockefeller Foundation–SIDA project “Global Health Equity Initiative” / Participant. Member of the Measurement group.
1997–1998	The Rockefeller Foundation–SIDA project “Global Health Equity Initiative: Russia case–study” / Researcher responsible for the Russian case study.
1996–1997	The British Know How Fund Project “Mortality Crisis in Russia” / <u>Co-Principal investigator</u> .
1996–1997	The UN World Institute for Development Economics Research (WIDER, Helsinki) project on “Economic Shocks, Social Stress and the Demographic Impact”. Russia case study / Participant.
1994–1996	The WHO Regional Office for Europe project “Atlas of leading and ‘avoidable’ causes of death in countries of Central and Eastern Europe”. Sections on Russia, Belarus, and Ukraine / Collaborator.
1994	The WHO Regional Office for Europe’s report on causes of mortality crisis in Russia / Visiting researcher.
Since 1990	Project on the reconstruction of mortality by cause of death series in Russia and countries of Eastern Europe (CDHE–INED, MPIDR–INED) / Permanent collaborator.

AWARDS

1998-2015	Principal investigator/applicant in grants awarded by the UNDP, the Dynasty Foundation, and the Higher School of Economics. (listed above). Co-applicant and co-PI in grants awarded by NIA/NIH, Wellcome Trust, ANR-DFG, AXA and other funding agencies (listed above).
2015	Award for the best poster. PAA Annual Meeting 2015.
2005	IUSSP–Mattei Dogan Award for Comparative and Multidisciplinary Research in Demography.

ASSOCIATIONS

Since 2009	Member of the Expert Advisory Panel on Health Science and Technology Policy.
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Since 2007	Member of the Expert Group to the WHO's Global Burden of Disease Study.
Since 2005	Member of the WHO High Level Advisory Panel on Health Statistics.
2011-2013	Member of the WHO European Advisory Committee on Health Research.
2002–2005	Member of the WHO Advisory Committee on Health Research (ACHR).
2000–2004	Head of Committee on Emerging Health Threats of the International Union for Scientific Study of Population (IUSSP).
1999	Head of the exploratory mission of the IUSSP for establishing a new Committee on Emerging Health Threats.
Since 1995	Member of the Moscow House of Scientists. Section of Demography.
Since 1993	Member of the International Union for Scientific Study of Population (IUSSP).

EDITORIAL AND REVIEW ACTIVITIES

Since 2015	Member of the International Advisory Board of the <i>Russian Journal of Preventive Medicine</i> .
Since 2014	Member of the International Editorial Council of the <i>Demographic Review</i> .
Since 2010	Member of the Editorial Board of the <i>Population Health Metrics</i> .
2006–2016	Associated Editor of the <i>International Journal of Epidemiology</i> .
Since 1998	Member of the Editorial Board of the <i>Bulletin of the World Health Organization</i> .

Reviewer to:

Addiction, American Journal of Public Health, Bulletin of the World Health Organization, Biomed Central; Comparative Population Studies, Demography, BMC Public Health, Demographic Research, European Journal of Population, European Journal of Public Health, Economics and Human Biology, International Journal of Epidemiology, Journal of Biosocial Science, Journal of Epidemiology and Community Health, Population, Population Studies, Population and Development Research, Population Research and Policy Review, Social Science and Medicine, The Lancet.

TEACHING AND SUPERVISING

Since 2013	Mentor to doctoral dissertation of Inna Danilova (Russia).
2011–2015	Teaching the course “Population and Health” at the New Economic School (Russia) for researchers, university teachers, students at Ph.D. and master levels. Max Planck School for Demography and the New Economic School.
2014	Teaching at the 6 th International Course on Epidemiological Methods in Vilnius (International Epidemiological Association).
2013	Teaching the intensive course “Measurement of Health Inequalities”, Vilnius University.
2012-2013	Teaching the course “Demography for Bachelor of Economics”, New Economic School and Higher School of Economics
2007–2012	Teaching the course “Demographic methods in public health research” for researchers, Ph.D., and master-level students, MPIDR.
2013	Scientific advisor to doctoral dissertation of Anna Safarova (Russia).
2013	Scientific advisor to doctoral dissertation of Irina Danilova (Russia).
2012-2013	Evaluation Board member to doctoral dissertation of Svitlana Ponyakina (Ukraine-France), INED
2010–2013	Mentor to doctoral dissertation of Pavel Grigoriev (Belarus’).
2006–2010	Mentor to doctoral dissertation by Eva Kibele (Germany).
2004	Scientific advisor to the master thesis by Eva Kibele (Germany).

- 2002–2003 Scientific advisor to doctoral dissertation by Domantas Jasilionis (Lithuania).
- 2003, 2010 Scientific advisor to doctoral and Evaluation Board member (Charles University) to dissertation by Marketa Pechholdova (the Czech Republic).

SELECTED PUBLICATIONS OVER THE LAST DECADE

Out of a total of 185 publications (journal articles, book chapters, books).

- 2017 Grigoriev, P.; Jasilionis, D.; Stumbrys, D.; Stankūnienė, V.; **Shkolnikov, V. M.** 2017. Individual- and area-level characteristics associated with alcohol-related mortality among adult Lithuanian males: a multilevel analysis based on census-linked data. *PLoS ONE* 12(7): 181622-e0181622. <https://doi.org/10.1371/journal.pone.0181622>
- 2017 Oksuzyan A, Demakakos P, Shkolnikova M, Thinggaard M, Vaupel JW, Christensen K, **Shkolnikov V.M.** 2017. Handgrip strength and its prognostic value for mortality in Moscow, Denmark, and England. *PLoS ONE* 12(9): e0182684. <https://doi.org/10.1371/journal.pone.0182684>
- 2017 Jdanov D., **Shkolnikov V.M.**, van Raalte A., Andreev E.M. Decomposing current mortality differences into initial differences and differences in trends: the contour decomposition method. *Demography*, forthcoming
- 2016 Timonin S., **Shkolnikov V.M.**, Jasilionis D., Grigoriev P., Jdanov D.A., Leon D.A. Disparities in length of life across developed countries: measuring and decomposing changes over time within and between country groups. *Population Health Metrics*: 14:29, 1-19.
- 2016 Gorlischev V.P., Kalinin A.I., Mikalskii A.I., Shkolnikova M.A., **Shkolnikov V.M.** Method for correction of the electrocardiographic QT interval accounting for the heart rate. (In Russian) *Control Science*: 6, 65-70
- 2016 Jasilioniene A., Sobotka T., Jdanov D.A., Zeman K., Kostova D., Andreev E.M., Grigoriev P., **Shkolnikov V.M.** Data resource profile: the Human Fertility Database. *International Journal of Epidemiology*.
- 2016 Todd M.A., **Shkolnikov V.M.**, Goldman N. Why are well-educated Muscovites more likely to survive? Understanding the biological pathways. *Social Science and Medicine* 157: 138-147.
- 2016 Saikia N., Bora J.K., Jasilionis D., **Shkolnikov V.M.** Disability divides in India: evidence from the 2011 census. *PLOS ONE*, DOI: <http://dx.doi.org/10.1371/journal.pone.0159809>; published: August 4, 2016.
- 2016 Andreev E.M., **Shkolnikov V.M.** Оперативная статистическая информация о населении: возможности и ограничения. [Short-term population statistics: possibilities and limitations.] *Voprosi Statistiki*, 3: 72-82.
- 2016 Smailyte G., Jasilionis D., Vincerzevskiene I., **Shkolnikov V.M.** 2016. Education, survival, and avoidable deaths in Lithuanian cancer patients, 2001–2009. *Acta Oncologica*, 1-6. DOI: 10.3109/0284186X.2016.1156739.
- 2016 Saikia N., **Shkolnikov V.M.**, Jasilionis D., Chandrashekhar. Trends and sub-national disparities in neonatal mortality in India from 1981 to 2011. *Asian Population Studies* 12:1, 88-107. DOI: 10.1080./17441730.2015.1130325.
- 2016 Danilova I., **Shkolnikov V.M.**, Jdanov D.A., Meslé F., Vallin J. 2016. Identifying potential differences in cause-of-death coding practices across Russian regions. *Population Health Metrics* 14:8. DOI: 10.1186/s12963-016-0078-0.
- 2015 Barbieri, M.; Wilmoth, J. R.; **Shkolnikov, V. M.**; Gleit, D. A.; Jasilionis, D.; Jdanov, D. A.; Boe, C.; Riffe, T.; Grigoriev, P.; Winant, C. Data Resource Profile: The Human Mortality Database (HMD). *International Journal of Epidemiology*, 1-8.

- 2015 Oksuzian A., Shkolnikova M., Vaupel J.W., Christensen K., **Shkolnikov V.M.** Sex differences in biological markers of health in the study of Stress, Aging and Health in Russia. *PLOS ONE* DOI:10.1371/journal.pone.0131691 June 29, 2015.
- 2015 Andreev E.M., **Shkolnikov V.M.**, Pridemore W.A., Nikitina S.Yu. A method for reclassifying cause of death in cases categorized as “event of undetermined intent”. *Population Health Metrics* 13:23. DOI 10.1186/s12963-015-0048-y.
- 2015 **Grigoriev P.**, Jasilionis D., Shkolnikov V.M., Meslé F., Vallin, J. Spatial variation of male alcohol-related mortality in Belarus and Lithuania. *European Journal of Public Health*, 1-7. (online first: 3 April 2015)
- 2015 Jasilionis D. and **Shkolnikov V.M.** Longevity and education: a demographic perspective. *Gerontology*. DOI: 10.1159/000438901
- 2015 Barbieri, M.; Wilmoth, J. R.; **Shkolnikov, V. M.**; Gleit, D. A.; Jasilionis, D.; Jdanov, D. A.; Boe, C.; Riffe, T.; Grigoriev, P.; Winant, C. Data Resource Profile: The Human Mortality Database (HMD). *International Journal of Epidemiology*, 1-8. (Advance Access published June 23, 2015)
- 2015 Jasilionis D., Smalyte G., Vincerzevskiene I., **Shkolnikov V.M.** Educational differentials in cancer mortality and avoidable deaths in Lithuania, 2001–2009: a census-linked study. *International Journ Public Health*, DOI: 10.1007/s00038-015-0745-0
- 2015 Maslauskaitė A., Jasilionienė A., Jasilionis D., Stankūnienė, V., **Shkolnikov V. M.** Socio-economic determinants of divorce in Lithuania: Evidence from register-based census-linked data. *Demographic Research* 33: 871-908. doi:10.4054/DemRes.2015.33.30.
- 2014 Smalyte, G., Jasilionis, D., Vincerzevskiene, I., Krilaviciute, A., Ambrozaitiene, D., Stankuniene, V., **Shkolnikov, V.M.** Educational differences in incidence of cancer in Lithuania, 2001–2009: evidence From census-linked cancer registry data. *European Journal of Cancer Prevention*, in press
- 2014 Oksuzian A., Shkolnikova M., Vaupel J.W., Christensen K., **Shkolnikov V.M.** Sex differences in health and mortality in Moscow and Denmark. *European Journal of Epidemiology*. 29(4): 243-252.
- 2014 Jdanov D.A., Deev A.D., Jasilionis D., Shalnova S.A., Shkolnikova M.A., **Shkolnikov V.M.** Recalibration of the SCORE risk chart for the Russian (Moscow-St. Petersburg) population using pooled data from seven epidemiological cohorts. *European Journal of Epidemiology*, 29: 621-628.
- 2014 Grigoriev P., Melsé F., **Shkolnikov V.M.**, Andreev E., Fihel A., Pechholdova M., Vallin J. The recent mortality decline in Russia: beginning of cardiovascular revolution? *Population and Development Review*, 40(1): 107-129.
- 2013 Rechel B., Roberts B., Richardson E., Shishkin S., **Shkolnikov V.M.**, Leon D.A., Bobak M., Karanikolos M., McKee M. Health and health systems in the countries of the former Soviet Union. *The Lancet*. 381: 1145-1155.
- 2013 **Shkolnikov V.M.**, Andreev E.M., McKee M., Leon D.A. Components and possible determinants of the decrease in Russian mortality in 2004-2010. *Demographic Research*, 28, article 32: 917-950, available at <http://www.demographic-research.org/volumes/vol28/32/>
- 2013 Kibele E.U.B., Jasilionis D., **Shkolnikov V.M.** Widening socioeconomic differences in mortality among men aged 65 years and older in Germany. *Journal of Epidemiology and Community Health*. 67: 453-457
- 2013 Gleit D.A., Goldman N., **Shkolnikov V.M.**, Jdanov D., Shalnova S., Shkolnikova M., Weinstein M. To what extent do biomarkers account for the large social disparities in health in Moscow? *Social Science & Medicine*, 77: 164-172.

- 2013 Glei D.A., Goldman N., **Shkolnikov V.M.**, Jdanov D.A., Shkolnikova M.A. Vaupel J.W., Weinstein M. Perceived stress and biological risk: is the link stronger in Russians than in Taiwanese and Americans? *Stress* 16(4): 411-420.
- 2012 Tomkins S., Collier T., Oralov A., Saburova L., McKee M., **Shkolnikov V.**, Kiryanov N., Leon D.A. 2011. Hazardous alcohol consumption is a major factor in male premature mortality in a typical Russian city: prospective cohort study 2003-2009. *PLoS ONE*, 7(2), e30274, available at <http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0030274>
- 2012 **Shkolnikov, V.M.**, Andreev, E.M., Jdanov, D.A., Jasilionis, D., Kravdal, Ø, Vågerö, D., Valkonen, T. Increasing absolute mortality disparities by education in Finland, Norway, and Sweden, 1971-2000. *Journal of Epidemiology and Community Health* 66: 372-378
- 2012 Metelskaya, V.; Shkolnikova, M. A.; Shalnova, S. A.; Andreev, E. M.; Deev, A. D.; Jdanov, D. A.; **Shkolnikov, V. M.**; Vaupel, J. W. Prevalence, components, and correlates of metabolic syndrome (MetS) among elderly Muscovites. *Archives of Gerontology and Geriatrics*, 55: 231-237.
- 2011 Andreev E.M., Jdanov D., **Shkolnikov V.M.**, Leon D.A. Long-term trends in the longevity of scientific elites: Evidence from the British and the Russian academies of science, *Population Studies*, 65(3): 319-334.
- 2011 **Shkolnikov, V.M.**; Andreev, E.M.; Zhang, Z.; Oeppen, J.E.; Vaupel, J.W. Losses of expected lifetime in the US and other developed countries: methods and empirical analyses. *Demography*, 48: 211-239.
- 2011 Saikia, N., Jasilionis D., F.Ram, **Shkolnikov, V.M.** Trends and geographic differentials in mortality under age 60 in India. *Population Studies*, 65(1): 73-89.
- 2010 Grigoriev, P.; **Shkolnikov, V. M.**; Andreev, E. M.; Jasilionis, D.; Jdanov, D.; Meslé, F.; Vallin, J.: 2010. Mortality in Belarus, Lithuania, and Russia: divergence in recent trends and possible explanations. *European Journal of Population*, 26: 245-274.
- 2010 Leon D.A., **Shkolnikov, V.M.**, McKee M., Kiryanov N., Andreev E. 2010. Alcohol increases circulatory disease mortality in Russia: acute and chronic effects or misattribution of cause? *International Journal of Epidemiology*, 39, 1279-1290.
- 2009 Shkolnikova, M.A.; Shalnova, S.A.; **Shkolnikov, V.M.**; Metelskaya, V.; Deev, A.D.; Andreev, E.M.; Jdanov, D.A.; Vaupel, J.W. Biological mechanism of disease and death in Moscow: rationale and design of the survey on Stress Aging and Health in Russia (SAHR). *BMC Public Health*, 9:293, 1-16.
- 2009 Leon, D.A.; **Shkolnikov, V.M.**; McKee, M. Alcohol and Russian mortality: a continuing crisis. *Addiction*, 104, 1630-1636.
- 2008 Kibele, E.; Scholz, R.D.; **Shkolnikov, V.M.** Low migrant mortality in Germany for men aged 65 and older: fact or artifact? *European Journal of Epidemiology*, 23, pp. 389-393.
- 2008 **Shkolnikov, V.M.**; Jdanov, D.A. The relationship between childhood and older-age health: disease-specificity, adult life course, and period effects. In: *Demographic Challenges for the 21st Century. A State of the Art in Demography* ed. by Johan Syrky, Patrick Deboosere, and Jan van Bavel. VUBPRESS Brussels University Press, pp. 211-222.
- 2007 **Shkolnikov, V.M.**; Scholz, R.D.; Jdanov, D.A.; Stegmann, M.; von Gaudecker, H-M. Length of life and pensions of five million retired German men. *European Journal of Public Health*, 18(3), pp. 264-269.
- 2007 **Shkolnikov, V.M.**; Jasilionis, D.; Andreev, E.M.; Jdanov, D.A.; Stankuniene, V.; Ambrozaitiene, D. Linked versus unlinked estimates of mortality and length of life by education and marital status: Evidence from the first record linkage study in Lithuania. *Social Science & Medicine*, 64, pp. 1392-1406.
- 2007 Leon, D.A.; Saburova, L.; Tomkins, S.; Andreev, E.M.; Kiryanov, N.; McKee, M.; **Shkolnikov, V.M.** Hazardous alcohol drinking and premature mortality in Russia: a population based case-control study. *The Lancet*, 369:9578, 2001-2009.

2007

Shkolnikov, V.M.; Andreev, E.M.; Houle, R.; Vaupel J.W. The concentration of reproduction in cohorts of women in Europe and the United States. *Population and Development Review*, 33(1), pp. 67–99.