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Doctor of Economics

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RESEARCH INTERESTS

Demographic and Labour Economics, Human Development in Periferial Regions, Econometrics, Spatial Econometrics

EDUCATION

2012	Doctor of Economics (Habilitation, Doctor of Science), the Russian Presidential Academy of National Economy and Public Administration, Russia. Title: “Human Development in the Russian North”. Advisor Prof. Liubov Khrapylina.
2000	PhD in Economics (Candidate of Science), Institute of Socio-economic and Energy Problem of the North, Komi Scientific Centre, Ural Branch of the Russian Academy of Sciences, Russia. Title: “State Regulating of the Labour Market: Marketing Theory Position.” Supervisor Professor Victor V. Fauzer.
1996	MS in Labour Economics and Sociology (5 year Specialty), Syktyvkar State University, Russia.
1992	MS in Mathematics (5 year Specialty), Faculty of Mechanics and Mathematics, Lomonosov Moscow State University, Russia

ACADEMIC POSITIONS

2016–present	Associate Professor , Department of Applied Economics, National Research University Higher School of Economics, Moscow, Russia.
2015–2016	Prof., Department of Economics, People's Friendship University of Russia, Moscow, Russia.
2013–2015	Postdoc, Ageing and Living Conditions Center, Demographic Database, Umeå University, Sweden. Research activity: 1. Regional Differences in Dementia Prevalence; Marital status and risk of dementia: a nationwide population-based

	prospective study; Back to Parents: for Caregiving or Being Care Recipients? Earnings and Residential Choice of Young Adults in Sweden.
2009–2013	PhD scholarship, Department of Economics, Umeå School of Business and Economics, Umeå University, Sweden. Research activity: Earnings and Employment: Gender and Ethnic Gaps in Labor Outcomes, Spatial Modelling of Fertility and Labour Market.
2007-2011	A course leader of the Core Curriculum Revision Team for the University of the Arctic (uarctic.org) Bachelor's of Circumpolar Studies BCS 331: "Contemporary Issues I".
2004-2008	Associate Professor, Department of Information Systems in Economics, Syktyvkar State University, Russia.
2005-2007	Researcher, Syktyvkar State University, Russia.
2004-2005	Associate Professor, Executive Head of the Department of Information Systems in Economics
2002-2003	Head of the Section of Information Systems in Economics, Department of Mathematical Statistics and Information Systems, Syktyvkar State University, Russia
2002-2003	Associate Professor, Department of Mathematical Statistics and Information Systems, Syktyvkar State University, Russia.
2001-2005	Senior Researcher, Institute of Socio-economic and Energy Problem of the North, Komi Scientific Centre, Ural Branch of the Russian Academy of Sciences, Syktyvkar, Russia.
1996-2001	Senior Lecturer, Department of Information Systems in Economics, Russia.

TEACHING

In English:

Master (Specialty) and PhD Level

- | | | | |
|--|---------------------|--------|-----------|
| 1. Public Economics | 2010-2015 | (10-15 | students) |
| 2. Mathematics II | 2012 | (15 | students) |
| 3. Feminist Legal Studies Workshop II, 1 credit, one of the speakers. Queen's University, Faculty of Law, Kingston, Canada | (Winter term, 2014) | (40 | students) |
| 4. Econometrics Advanced | 2016- | (110 | students) |
| 5. Quantitative Methods in Policy Evaluation and Impact Assessment | Start 2017 | (20 | students) |

In Russian:

Master (Specialty) and PhD Level

- | | | | |
|--|-----------|------|-----------|
| 1. Econometric Modelling in Finance | 2003-2008 | (25 | students) |
| 2. Econometric Modelling in Labour Economics | 2006-2008 | (25 | students) |
| 3. Econometrics | 1999-2008 | (300 | students) |
| 4. Economics of Information Technology | 2006-2008 | (50 | students) |
| 5. Mathematical Methods in Economic Researches | 1999-2001 | (35 | students) |
| 6. State Regulating of Economy in the Russian and Canadian North: Models and Methods | 2003-2005 | (35 | students) |

Bachelor Level

- | | | | |
|---------------------------------------|-----------|------|-----------|
| 7. Computing Science | 1995-2001 | (300 | students) |
| 8. Computing in Finance Analysis | 2005-2007 | (100 | students) |
| 9. Fundamentals of Economic Modelling | 1997-2002 | (300 | students) |

10. Labour Economics, at the Komi Republican Academy of National Economics and Public Administration, 2006-2007 (20 students),
 11. Socioeconomic Statistics 2008 (50 students)
 12. Econometrics 2016-2017 (230 students)

INTERRUPTION IN RESEARCH

2015 July – 2015 October

Data Science Analyst. Analytic Holding, Moscow. Responsibilities: Text mining in R. Social network analysis in R. Methodology of social media analysis. Analytic writing. Visualisation.

2015 November – Analyst-Statistician, Online Marketing Intelligence, Moscow. Responsibilities: Methodology of Internet-users profiling based on penalized Lasso, support vector machine in R. Methodology of clickstream data analysis.

2015, June – Internship as an Assistant of the Head of the Social-Political Department. WCIOM, Moscow. Responsibilities: Methodology of semantic analysis (text mining): tm package in R, SPSS, Excel. Voters segmenting.

2008 –2009 Principal Specialist, Closed Joint Stock Company “International Center of Regional Development”, Moscow, Russia. Responsibilities: Policy application of research results to social planning and policy of development of peripheral regions etc.: economic and social planning for regional and municipal boards for the regional authorities of Yevreiskaya Autonomous Oblast, Amurskaya oblast, and the municipal authority of Stavropol city, Russia, 2008-2009

OTHER INFORMATION

MOTHER TONGUE Russian

OTHER LANGUAGES English (fluent), Swedish (basic)

VISITING RESEARCHER

November 2014 Department of Business Administration, Technology and Social Sciences, Luleå University of Technology, Sweden.

February 2014 Queen's University, Faculty of Law, Kingston, Canada.

November 2013 World Population Program, International Institute for Applied Systems Analysis (IIASA), Vienna, Austria.

November 2012 The Norwegian School of Economics (NHH) Bergen, Norway.

March-April 2006 New Economic School, Moscow, Russia.

August 2002 University of Toronto, Toronto, Canada.

September 2002 Alberta University, Edmonton, Canada.

PARTICIPATION IN ADVANCED COURSES AND OTHER EDUCATIONAL EXPERIENCES

October 2013 *Sequence Analysis & TraMineR*, by Institute for Demographic and Life Course Studies in Geneva, Umeå University.

July 2012 25th European Regional Science Association (ERSA) *Summer School at Fiscal federalism, mobility and policy evaluation*, organized by Associate Professor Johan Lundberg, Department of Economics Umeå, Sweden.

May-June 2012 *Summer School at Spatial Econometric Advanced Institute* organized by Professor Giuseppe Arbia, Rome, Italy.

- November 2011 *Happiness, Time-Use and Public Policy*, Umeå, Sweden held by Professor Ronnie Schöb, Freie Universität Berlin.
- September 2011 *Quantitative Methods in Social Science-2 Summer School. Network Dynamics using RSiena*, by University of Oxford, Groningen, The Netherlands
- September 2009 PhD course “*Spatial Econometrics: Concepts, Tools, Applications*” held by Professor Raymond J.G.M. Florax at Umeå University, Sweden.
- May 2003 *Econometrics II. Time series analysis*, by NES, Moscow, Russia
- July 2002 *Econometrics II. Models of Finance Markets*, by New Economic School (NES), Veliky Novgorod, Russia.
- May 2001 *Econometrics II. Models of Discrete Choice*, by NES, Moscow, Russia.
- September 2000 *Econometrics II. Panel data analysis*, by NES, Yekaterinburg, Russia.
- September 1998 *Econometrics I*. by NES, Sankt Petersburg, Russia.

RECENT CONFERENCES ATTENDED WITH PRESENTATION

- 2015 Arctic Science Summit Week, ISAR-4 and ICARP III Symposium, Japan
- 2014 54th European Regional Science Association Congress, Russia.
- 2014 Feminist Legal Studies Queen's Conference, Faculty of Law, Queen's University, Kingston, Canada.
- 2014 The National Conference in Economics, Umeå University, Sweden.
- 2013 XXVII IUSSP International Population Conference, South Korea.
- 2013 The Arctic Science Summit Week (ASSW), Poland (invited speaker).
- 2012 The Applied Demography Conference, USA.
- 2012 European Population Conference, Sweden.
- 2012 The 2nd Stochastic Modeling Techniques and Data Analysis International Conference, Greece.
- 2011 The 1st Nordic Winter Conference of NS-RSA Regions: “Sustainability, Growth, and Policy”, Sweden.
- 2010 The Annual Conference in Mölle, arranged by the Research School in Economic Demography at the Centre for Economic Demography, Lund University, Sweden.
- 2009 Association of Polar Early Career Scientists (APECS) Annual conference, Victoria, B.C., Canada.

WORKSHOPS ATTENDED WITH PRESENTATION

- 2014 “Gender Convergence: Why Are Women Becoming More Like Men (and Men More Like Women) in the Labor Market?” at Institute for the Study of Labor (IZA), Bonn, Germany.
- 2009 International Polar Year (IPY) International Early Career Researcher Symposium and Workshop, Victoria, B.C., Canada.
- 2007 Second stage of a research grant application, Economic Education and Research Consortium (EERC), Kiev, Ukrain.
- 2005 Second stage of a research grant application, EERC, Moscow, Russia.

MEMBERSHIP

- 2013-2015 The interdisciplinary research group within the project "Ageing and Living conditions" Umeå University.
- 2013-2015 The Tromsø-Umeå-Arkhangelsk-Canada Network on Gender and Law in the Arctic Region (TUAC).
- 2013-2015 Arctic Research Centre at Umeå University (ARCUM).
- 2012-2015 International Union for the Scientific Study of Population (IUSSP).
- 2011- 2015 The Population Association of America (PAA).
- 2010-2013 The Graduate School in Population Dynamics and Public Policy at Umeå University.
- 2009-2015 The Association of Polar Early Career Scientists (APECS).

GRANTS

- 2016 Collaborator in the project “Knowledge network on mining encounters and indigenous sustainable livelihoods: cross-perspectives from the circumpolar North and Melanesia/Australia (MinErAL)” funded by Social Sciences and Humanities Research Council, Canada (\$2,500,000.00, 6 years)
- 2014 Research Grant “Labour Market Outcomes of Migrant Women in Västerbotten and Norrbotten” funded by ARCUM.
- 2006 Research Grant “The Regional Economic Growth in the Russian North and the Quality of Human Capital” funded by International Science Foundation for Economic Research named by Academician N.P. Fedorenko, Russia.
- 2006 Scholarship of Economic Education and Research Consortium for a one-semester visit of New Economic School, Moscow, Russia.
- 2002-2003 Syktyvkar State University funding for developing a distance learning guideline “Econometrics” (received and implemented together with Prof. Alexander Tikhomirov).
- 2002 Faculty Enrichment Program: “State Regulation of Economy in the Russian and Canadian North: Models and Methods”, for developing an academic course funded by the Faculty Enrichment Program of the Government of Canada.
- Travel grants The Research School in Population Dynamics and Public Economics at Umeå University (2011, 2012, 2013), JC Kempe Memorial Scholarship Foundation (2009, 2012, 2014), ARCUM (2014, 2015), Arctic-FROST(2015), TUAC (2014), the Swedish Research Council for Health, Working Life and Welfare (FORTE) (2014), ASSW Organizing Committee (2013), Wallenberg Foundation (2012), APECS (2009), Northern Research Forum (2006), NES together with EERC (1998, 2000, 2001, 2002, 2005, 2007), the Office of Undergraduate Studies of the University of the Arctic (2007, 2008, 2009, 2010).

REVIEWING

Sociology and Anthropology, HRPUB

Journal of Social Indicators Research

Arctic Human Development Report 2014. Chapter “Economics”

SELECTED PUBLICATIONS:

Over 100 papers have been published in Russian, including 21 papers in peer-reviewed journals and more than 40 other journal articles; two textbooks and a monograph. In English, three papers have been published in peer-reviewed journals, one is forthcoming as a book chapter, and two articles are submitted and re-submitted in peer-reviewed journals.

Peer-reviewed original articlesin English:

- 2016 Kotyrlo E. Space-time Dynamics of Fertility and Commuting, *Applied Econometrics*. 2016. Vol. 41, 78-95
- 2015 Magnus Wikström, Elena Kotyrlo, Niklas Hanes. Childcare Reform: Effects on Earnings and Employment among Native Swedish and Immigrant Mothers, in Solomon W. Polachek, Konstantinos Tatsiramos, Klaus F. Zimmermann (ed.) *Gender in the Labor Market (Research in Labor Economics, Volume 42)* Emerald Group Publishing Limited, pp.93 - 129

- 2015 Anna Sundström, Olle Westerlund, Elena Kotyrlo. Marital status and risk of dementia: a nationwide population-based prospective study. *BMJ Open*. *BMJ Open* 2016;**6**:e008565 doi:10.1136/bmjopen-2015-008565
- 2014 Kotyrlo E. Labour Market Outcomes of Migrant Women in Västerbotten and Norrbotten. *The Arctic Yearbook* http://www.arcticyearbook.com/images/Arcticles_2014/Kotyrlo_AY2014_FINAL.pdf
- 2014 Kotyrlo E. Northern Investment Risks in Human Capital Formation: Russian Experience. *Sociology and Anthropology*. 2(3) 91-101 doi: 10.13189/sa.2014.020304
- 2013 Kotyrlo E. Stationarity Conditions for the Spatial First-order and Serial Second-order Model. *Letters in Spatial and Resource Sciences* **6**(1): 19-29.

in Russian:

- 2013 Kotyrlo E. Immigration Policy in Sweden (Иммиграционная политика Швеции) "The North and the market" **6**. ISSN 2220-802X.
- 2011 Kotyrlo E. The Conception of Human Development in the Russian North. (О концепции развития человеческого потенциала на Российском Севере) *Man and Labor* **10** 48-50.
- 2011 Kotyrlo E. Human Development and Human Capital as Scientific Categories. (Человеческий потенциал и человеческий капитал как экономические категории) *Audit and Financial Analysis* **6** 376-381. ISSN 0236-2988
- 2010 Kotyrlo E. Social Capital as a Human Development Factor: Northern Regions. (Социальный капитал как фактор развития человеческого потенциала) *Znanie. Ponimanie. Umenie* **1** 75-81.
- 2009 Kotyrlo E. The Russian North: Investment in Human Capital. (Российский Север: Инвестиции в Человеческий капитал) *Audit and financial analysis* **3** 247-255.
- 2009 Kotyrlo E. Development of the Northern Social Contract. *Social Policy and Social Partnership* (Развитие северного социального контракта). *Social Policy and Social Partnership* **8** 64-69.
- 2009 Kotyrlo E. Corporate Social Policy and Human Capital of the Northern Regions. (Корпоративная социальная политика и развитие человеческого потенциала на Севере) *Russian Entrepreneurship* **10** 160-164. ISSN 1994-6937.
- 2008 Kotyrlo E. The Russian North: What Type of Education Do Indigenous People Need? (В каком образовании нуждаются коренные народы Севера?) *Man and Labor* **11** 21-24.
- 2008 Kotyrlo E. Regional Labor Market Demand Forecasts (Komi Republic). (Прогнозирование спроса на рабочую силу на уровне региона) *Man and Labor* **4** 26-29.
- 2008 Kotyrlo E. Institutional Approaches to Human Development Policy in the Russian North. (Институциональные подходы в совершенствовании политики развития человеческого потенциала на Российском Севере) *Economic Sciences* **7** 160-164.
- 2008 Kotyrlo E. Human Capital of the Northern Regions. (Человеческий капитал северных регионов) *ECO* **11** 68-79.
- 2008 Kotyrlo E. Human Capital and Economic Growth: Analysis of Interrelation for the Russian North Regions. *Economic Science of Modern Russia* (Человеческий капитал и экономическое развитие: анализ взаимосвязи в регионах Российского Севера) **3**(39) 38-52.
- 2007 Kotyrlo E. The Role of Large Enterprises in the Northern Labor Markets (Роль корпораций на северных рынках труда). *Notes of the Fatherland* **3**(36).

- 2007 Kotyrlo E. Efficiency of the Northern Social Contract. (Эффективность северного социального контракта) *Labor and Social Relations* **6** 22-32.
- 2007 Kotyrlo E. Economic Growth and Territorial Social Inequality (in Komi Republic). (Экономический рост и территориальное неравенство на примере Республики Коми) *ECO* **2** 84-93.
- 2000 Kotyrlo E. Regional Issues in Labor Market Regulating with Marketing Approach: case of Komi Republic. (Регулирование регионального рынка труда с позиции маркетинга на примере Республики Коми) *Human Resource Management* **12** 26-32.

Peer-reviewed conference contributions

- 2008 Kotyrlo E. Human Development and Regional Economic Growth in the Russian North - *The Bordless North – 4th Northern Research Forum* - Printed in Ouluprint Oy. Oulu, Finland, 21-25 (in English).
- 2008 Kotyrlo E. Incomes and Human Development in a Comparative Analysis of the Russian North with Other Regions – *The Bordless North – 4th Northern Research Forum* - Printed in Ouluprint Oy. Oulu, Finland 219-224 (in English).

Monograph

- 2009 Kotyrlo E. *Human Development and Economic Growth in the Russian North* (Человеческое капитал и экономическое развитие Российского Севера) Moscow: Sovremennaya Ekonomika i Pravo 364 p. ISBN 978-5-8411-0267-0 (in Russian).

Books and book chapters

- 2015 Kotyrlo, E. Childbearing and Labor Market: Time and Space Dynamics. “*The Emerging Techniques in Applied Demography*”. Hoque, M.Nazrul, Potter, Lloyd B. (Eds.). Applied Demography Series, Vol. 4: 169-188. Springer. DOI: 10.1007/978-94-017-8990-5_12. (in English).
- 2007 Vitaseva V., Kotyrlo E. Socio-economic Development in the Russian North and the North abroad (Социально-экономическое развитие Российского и зарубежного Севера), *The Textbook*, Syktyvkar: Syktyvkar State University 292 p. ISBN/ISSN:978-5-87237-570-8 (authors contribution is chapters 4-11). (certified by educational associations of Russian Classical University education in a field of specialization) (in Russian).
- 2005 Kotyrlo, E. Econometrics, *The Textbook*, Syktyvkar: Syktyvkar State University. 194 p. ISBN 5-87237-484-4 (certified by educational associations of Russian Classical University education in a field of specialization) (in Russian).

Certificates of registration

- 2004 Bazhukova Y., Kotyrlo E., Mazanova L. Population Projections. Registration certificate #3760 from 15.07.2004 issued by the Fund of Algorithms and Programs at the Ministry of Education of Russian Federation. (Бажукова Е.Я., Котырло Е.С., Мазанова Л.Ю. Прогнозирование численности населения. Свид. регистрации об отраслевой разработке №3760 от 15.07.2004. Отраслевой фонд алгоритмов и программ Министерства образования РФ (contribution is in design of the software package and developing algorithms) (in Russian).
- 2003 Kotyrlo E., Tikhomirov A. A Distance Learning Guideline “Econometrics”. Registration certificate #2268 from 30.01.2003 issued by the Fund of Algorithms and Programs at the Ministry of Education of Russian Federation (Котырло Е.С., Тихомиров А.Н. Комплекс учебно-методических материалов для дистанционного обучения «Эконометрика». Свид. регистрации об отраслевой

разработке №2268 от 30.01.2003. Отраслевой фонд алгоритмов и программ, Министерство образования РФ (contribution is 90%) (in Russian).

Submitted papers

Space-Time Dynamics of Fertility and Commuting. Submitted in *Letters in Spatial and Resource Sciences*. Springer.

Young Working Women: First Childbirth and Daily Labour Mobility. Submitted in *Journal of Population Research*. Springer.

Work in progress

Fertility and its Economic Determinants (doctoral thesis, gained 227 ECTS from 240 to this moment)

Brain Drain as a Response to Inequality in a Society: Imitation Modelling.

Regional Differences in Dementia Prevalence (with A. Sundström, O. Westerlund)

Back to Parents: for Caregiving or Being Care Recipients? Earnings and Residential and Commuting Choices of Young Adults in Sweden.

Profiling Users by Clickstream Data

Social Graphs Application for Social Media

Elena Kotyrlo