



Curriculum Vitae

Andrey N Petrov

PhD Candidate (ABD)

Department of Geography and Program in Planning, University of Toronto

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Education

2008 (exp.) **Doctor of Philosophy** in *Geography* (Economic/Regional/Development), University of Toronto, Ontario, Canada

2004 **Master of Arts** in *Geography*, University of Northern Iowa, IA, USA

2003 *Cartography* and *GIS Certificate*, University of Northern Iowa, IA, USA

2000 **Diploma of Specialist** (summa cum laude), *Geography* and *Biology*, Herzen State Pedagogical University of Russia, St. Petersburg, Russia

Research Interests

Spatial population analysis, Aboriginal demography and migration, demoeconomic and migration models;

Economic geography, regional development policies and restructuring in non-central regions, particularly in the Russian and Canadian North, neo-staple and knowledge-based economies in the peripheries;

Geographic Information Systems and statistical techniques for advanced spatial analysis, application of GIS in social sciences, urban remote sensing.

Appointments

2004-2007 Teaching Assistant, Department of Geography University of Toronto, ON, Canada

2006-2007 Instructor, Geography Program, Department of Social Sciences University of Toronto at Scarborough, Toronto, ON, Canada

2006 (summer) Instructor, University of Toronto, Knox College, Toronto, ON, Canada

2003-2004 GIS Research Analyst, the STORM Project, Department of Earth Science, University of Northern Iowa and Coordinator of the international videoconferenced seminar series "Russian/American studies in political and economic issues", Department of Geography, University of Northern Iowa, IA, USA

2001-2003 Research Assistant, Remote Sensing Team, the STORM Project and Department of Geography University of Northern Iowa, IA, USA

2000-2001 Instructor, Department of Economic Geography, Herzen State Pedagogical University of Russia, St. Petersburg, Russia

Recent publications

(a full list is available upon request)

Monographs and brochures

1. *Geo-population processes in the Russian and Canadian North in the 1990s*. A Synopsis. St. Petersburg. 22 p. 2006. [in Russian]

Peer-reviewed articles

1. Lost Generations? Reviewing Indigenous population dynamic in the Russian North during the Post-Soviet period. *Canadian Studies in Population* (accepted)
2. A talent in the cold? Creative class and the future of the Canadian North. *ARCTIC – Journal of the Arctic Institute of North America*. (in press)
3. A look beyond metropolis: Exploring creative class in the Canadian periphery. *Canadian Journal of Regional Science*. 2007, 30(3) (in press)
4. Revising the Harris-Todaro framework to model labour migration from the Canadian northern frontier. *Journal of Population Research*. 2007, 24(2)
5. The structure of geoelectoral space in the two-party system (2004 US Presidential elections). *Izvestiya Russkogo Geograficheskogo Obshchestva*. [Transactions of the Russian Geographic Society] 2006, 138(6), 47-58 with V. A. Dobroskok [in Russian]
6. Applications of LISA-analysis for studying spatial processes in human geography (An example of the Canadian North). *Izvestiya Russkogo Geograficheskogo Obshchestva*. 2005, 137(6), 65-71 with V. A. Dobroskok [in Russian].
7. Monitoring and modeling cropland loss in rapidly growing urban and depopulating rural counties using remotely sensed data and GIS. *Geocarto International*. 2005, 20(4), 45-52 with R. Sugumaran
8. The effect of spatial resolution of remotely sensed data in dasymetric mapping of residential areas. *GIScience and Remote Sensing*, 2005, 42(2), 113-130 with A. Bozheva and R. Sugumaran
9. “Northernness:” indicators and spatial expression (Russian and Foreign experience in delimitating borders of the North). *Izvestiya Russkogo Geograficheskogo Obshchestva*. 2003, 135(2), 15-25 [in Russian with English abstract]
10. Geography of the oil and gas resource crisis in Russia. *Geography at School*, 2003, 8, 16-23 with V. A. Dobroskok [in Russian]
11. Geography of the agricultural base of the world narcotics production. *Izvestiya Russkogo Geograficheskogo Obshchestva*. 2002 134(3), 64-71 with V.A. Dobroskok [in Russian with an English abstract]
Reprinted: The agricultural base of the world narcotics production. *Energiya/Energy: Ekonomika, Tekhnologiya, Ekologiya – Journal of the Presidium of the Russian Academy of Sciences*, 2003, 1, 57-60.
12. On the influence of the ethnogenesis on population dynamics. *Izvestiya Russkogo Geograficheskogo Obshchestva*. 2002. 134(2), 85-92. [in Russian]
13. Demographic crisis in the Russian North: roots and geography. *Izvestiya Russkogo Geograficheskogo Obshchestva*. 2001, 133(3), 34-39 with S.P. Semenov [in Russian with an English abstract]

14. New data on the relationship between natural rhythms and ethno-social processes. *Izvestiya Russkogo Geograficheskogo Obshchestva*. 2000. 132(3). 85-88. [in Russian]

Peer-reviewed articles in progress

1. Quantifying spatiotemporal dynamics of agricultural landscapes in diverging development contexts using remotely sensed data and landscape metrics. *Geocarto International* (under review), with R. Sugumaran
2. Redrawing the margin: Re-examining regional multichotomies, conditions of marginality and spatial differentiation in the Russian and Canadian Norths (in preparation)
3. Marginal regions in discursive space: Struggling with development in the Russian and Canadian North (in preparation)

Book chapters and selected peer-reviewed collection contributions

1. Contract federalism? New public management and reforming Aboriginal public employment and training services in the Canadian North. In John F. Young (ed.) *Federalism, Power and the North: Governance reforms in Russia and Canada*, CERES, Toronto. 2007, 107-131. with R. DiFrancesco
2. Expanding Census Geospatial Data Infrastructure in Northern Canada: Developing Past Census Boundary Files for Saskatchewan. In *IPY GeoNorth 2007 Conference Proceedings*. CD-ROM publication. with L. Ruus
3. Identification of ethnic identity in the educational process. In *Pedagogic Education as an Important Factor of Preservation and Development of the Indigenous Northern Peoples' Culture*. St. Petersburg, 2007. with A. Baranov A and V.A. Dobroskok [in Russian]
4. Modeling the effect of remoteness and transportation accessibility on migration processes in the Russian and Canadian North. In Gladky, Yu.N. (ed) *Human Geography in the 21st Century*. St. Petersburg, Epigraph. 2005, 138-143. [in Russian]
5. Globalization, neoliberalism and crisis of societal development in the Russo-Canadian North. Geography at the Border of Centuries. *Papers of the 12th Meeting of the Russian Geographic Society*. Vol.1. St. Petersburg. 2005, 90-93. [in Russian]
6. Contemporary migration processes in the Canadian North: Tendencies and regional differences. In *Bulletin of Faculty of Geography of Herzen University*, 2004, 3-12. with V. A. Dobroskok [in Russian]
7. Demographic Crisis in the Russian North: Ten-years in Development. In *Bulletin of Faculty of Geography of Herzen University*, 2003, 41-54. with V. A. Dobroskok [in Russian]

Book chapters and peer-reviewed collection contributions in progress

1. Indicators of fate control. In *Arctic Social Indicators* (forthcoming in 2008) with G. Fondahl, J. Dahl, C. Olson, J. Larsen
2. Migration and socio-economic well-being in the Russian North: Interrelations, regional differentiation, recent trends and emerging issues In *Migration in the Circumpolar North: New Concepts and Patterns* (under review) with T. Vlasova

Dissertations and theses

- 2008** (exp.) **PhD** “Marginal regions in discursive space: An examination of socio-economic conditions, development paths and spatial differentiation in frontier economic systems of the Canadian and Russian North” [Committee: Dr. Richard J.

DiFrancesco, Dr. Larry S. Bourne, Dr. Meric S. Gertler, Dr. John R. Miron]

2004 Master of Arts: “*Spatial population dynamics in the resource-dependent peripheral territories of the Canadian North in the 1990s*”, University of Northern Iowa, IA, USA [Adviser Dr. Tim Strauss]

2000 Diploma Specialist “*The Geography of the Demographic Crisis in the Russian North*”, Herzen State Pedagogical University of Russia, St. Petersburg, Russia [Adviser Dr. S.P. Semenov]

Research projects

Economic Geography, Regional Analysis and Public Policy:

Redrawing the margin: Re-examining regional multichotomies and spatial conditions of economic marginality in the Russian and Canadian northern frontier (2006-)*

Arctic Social Indicators Project (International Polar Year endorsed) (2007-2008)**

Alternative policies “beyond metropolis”: An exploration of the creative class in the Canadian periphery and the Canadian North (2006-)*

Marginal places in discursive space: Political economies of frontier urban development in Canada and Russia (2005-2007)*

‘Contract federalism’: New public management reforms and transformation of federal service delivery to Aboriginal populations in Canada, Australia, and USA (2006, completed, with Richard J. DiFrancesco)**

Public Employment Agencies, the Role of Economies of Scale, Aggregation and Critical Mass (2006, completed, with Richard J. DiFrancesco)**

Societies in trouble: Globalization, neo-liberalism and the public policy crisis in the Arctic and sub-Arctic (2004-2005, completed)

When people matter more than gold: Modeling economic effects of rapid depopulation and aging in the shrinking frontier economy in Yukon (completed, 2005)*

Genealogy of public development discourses and policies in the northern frontier: A comparative analysis of Russian and Canadian paths (completed, 2004-2005)*

Population Analysis and Modeling

Indigenous population dynamic in the Russian North during the Post-Soviet period (2006-

Applications of local spatial autocorrelation techniques in spatial population analysis (2005-2006, completed)*

Harris-Todaro model of labor migration: Legacy and applications in the frontier-metropolis context in Canada (2004-2005, completed)*

Refining census population maps with advanced GIS techniques and remotely sensed imagery (dasymetric mapping) (2004, completed, with R. Sugumaran and A. Bozheva)**

Spatial population dynamics in the resource-dependent peripheral territories of the Canadian North in the 1990s (2003-2004, completed)**

Geography of the depopulation in the Russian North. Regional patterns and socio-economic determinants (2000-2003, completed)**

Natural rhythms, ethogenesis and dynamics of population: a new theory of long-term demographic waves (1998-2001, completed)

GIS and Remote Sensing:

Development and assessment of possible methodologies of creating digital census Enumeration Area boundary files for past Canadian Censuses of population (2006, completed with L. Ruus for Statistics Canada)**

Analysis of spatiotemporal dynamics of the urban-rural fringe landscapes in Iowa using remotely sensed data and landscape metrics (2004-2006, completed, with R. Sugumaran)**

GIS-aided LISA-analysis for studying spatial population dynamics in the Canadian and Russian North, GIS- integration with statistical analysis for social-science applications (2004-2005, completed)*

Monitoring, geostatistical analysis and modeling of land use-land cover change and farmland loss in Iowa (1984-2016) (2003-2004, completed, with R. Sugumaran)**

The effect of spatial resolution and classification accuracy of remotely sensed data in dasymmetric mapping of population density in residential areas (2004, completed, with R. Sugumaran and A. Bozheva)**

* part of dissertation or PhD coursework

** externally funded projects

Recent conference presentations
(since 2005)

2007

Canadian Regional Science Association Annual Meeting, Mississauga, ON
Canadian Association of Geographers Meeting, Saskatoon, SK
Canadian Population Society Meeting, Saskatoon, SK
Geological Association of Canada-MAC Meeting, Yellowknife, NWT
North and Nordicity: Representations of the North, Toronto, ON
103rd Association of American Geographers Annual Meeting, San Francisco, CA

2006

Federalism, Power and the North: Governance reforms in Russia and Canada, Toronto, ON
53rd North American Regional Science Association Meeting, Toronto, ON
102nd Association of American Geographers Annual Meeting, Chicago, IL

2005

Geography of and for public policy and West Lakes Division of the AAG Annual Meeting, Iowa City, IA
12th Russian Geographic Society Meeting, Kronshtagt, Russia
Canadian Regional Science Association Annual Meeting, Toronto, ON
Canadian Population Society Annual Meeting, London, ON
Canadian Association of Geographers Annual Meeting, London, ON
101th Association of American Geographers Annual Meeting, Denver, CO

Professional memberships

Association of American Geographers
Canadian Association of Geographers
Canadian Population Society
Canadian Regional Science Association
Regional Science Association International
Russian Geographic Society