

Andrei P Kirilenko

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SUMMARY INDICATORS

Publications:

h=24; i10=33; total citations: 3600+
Peer-reviewed journal articles: 58
Book chapters: 25
Professional presentations (national/international): 100+

External funding:

PI, past three years: \$260K
Overall activity (PI, co-PI, co-I): \$20M
Major funding agencies: US Army Corps of Engineers, NASA, Florida Dept. of Transportation

Major scientific collaborations:

Intergovernmental Panel on Climate Change Fourth Assessment Report (IPCC AR4)
United Nations 6th Global Environmental Outlook Report

Teaching:

Online: introductory statistics, research methods
Traditional: Global biogeochemical cycles, climate change, GIS, data mining, introductory statistics, research methods

1. EDUCATIONAL BACKGROUND

Computer Center of Russian Academy of Science

1990

PhD, Computer Modeling in Science and Industry
Dissertation: Modeling water cycle and production process in forest ecosystems

Moscow State University, Russia

1984

Qualification in Mathematics (M.S. equivalence), Applied Mathematics
Thesis: A numerical method of separation for linear systems

2. PROFESSIONAL EXPERIENCE

Associate Professor, Department of Tourism, Hospitality & Event Management,
University of Florida, Gainesville, FL

2015 – current

Associate Professor, Department of Earth Systems Science and Policy, University of
North Dakota, Grand Forks, ND

2006 – 2015

Associate Researcher, Department of Forestry and Natural Resources, Purdue University,
West Lafayette, IN

2002 – 2006

Senior Researcher, Center for Ecology & Forest Productivity of Russian Academy of
Science, Moscow, Russia

1992 – 2002

Visiting scientist, European Forest Institute, Joensuu, Finland

2000 – 2001

Research Fellow of the US National Research Council , US EPA National Health and Environmental Effects Laboratory, Corvallis, OR	1995 – 1998
Researcher , Computer Center of the USSR Academy of Science, Moscow, Russia	1989 – 1992
Junior Researcher , Computer Center of the USSR Academy of Science, Moscow, Russia	1986 – 1989
Software Engineer , Academy for National Economy of Council of Ministers of the USSR, Moscow, Russia	1984 – 1986

3. TEACHING

Regular Assignments

FNR 599 (2 credits) , Environmental modeling	2005
ESSP 599 (3 credits) , Readings in Climate Change	2007 – 2015
ESSP 502, 502L, 502R (10 credits) , Earth System Science and Policy II. Lead instructor in Global Biogeochemical Cycles	2008 – 2015
ESSP 520 (3 credits) , Earth Systems Modeling	2008 – 2015
ESSP 599 (3 credits) , Climate, Hydrology and Remote Sensing	2011
ESSP 200 (3 credits) , Sustainability Science. Co-teaching, topic: How the scientists do science	2013 – 2015
ESSP 160 (3 credits) , Sustainability & Society. Co-teaching, topic: Climate change communication	2014 – 2015
HLP 6535 (3 credits) , Research Methods	2015 – present
LEI 4880 (3 credits) , Research Methods in Tourism	2019 – present
HLP 6515 (3 credits) , Evaluation Procedures in Health and Human Performance	2016 – present
HMG 6448 (3 credits) , Spatial Analysis for Tourism and Social Data (2016-2018 LEI 6931)	2016 – present
HMG 6583C (3 credits) , Data Mining with Social Data (2016-2017 LEI 6931)	2016 – present

Online teaching

Evaluation Procedures in Health and Human Performance
 Research Methods

Select guest teaching

BOT4935/ZOO4926 , Global Biodiversity and Culture: Integrating Conservation and Human Well-being. Climate change impacts on biodiversity.	2019-2020
ESSP 501, 501L Earth System Science and Policy I. Four to Six guest lectures and labs in blocks “Biodiversity” and “Energy”	2007-2015
GEOL 105 , Geology. One guest lecture	2007
ESSP 502, 502L, 502R , Earth System Science and Policy II. Guest lectures and labs in “Hydrology” module	2007 – 2015
IDS 339 , Service and Global Citizenship. One guest lecture	2009
Non-credit, UND , Communicating Climate Change (Co-teaching undergraduate level course for students from regional colleges, funded by NASA)	2010

Graduate Student Advising (Bold font designates a committee chair assignment)

#	Student name	Degree	Dissertation, thesis or final report title	Year of defense
1	Leigh Ciofani	MS	Woody encroachment in North Dakota grasslands: using predictive modeling to examine key players and management implications	2007
2	Elliott Smith	MS	Remote sensing data integration into ecological niche modeling for two North American <i>Bombus</i> species	2009
3	Sandhuya Nepal	MEM	Addressing agro-environment policies related to wetland conservation	2009
4	Gordon Akudibillah	MEM	Predicting the global emergence of <i>chikungunya</i>	2009
5	Kristine Mattis	MS	The precautionary principle as environmental policy: is the US media undermining ecological health and environmental sustainability?	2009
6	Branden Bornemann	MEM	Assessing the impacts of human activities on the ecology of the Russian river, Alaska	2009
7	Hom Adhikari	MS	Ecosystem services assessment of Grand Forks county	2010
8	Junue Young	MS	Sensible Heat Flux Measurement Using Scintillometer and Comparison with Eddy-Correlation and Landsat Images	2011
9	Navin Thapa	MS	Agro-climatic and land suitability mapping for switchgrass grown as a bioenergy crop in North Dakota	2011
10	Ashley Tooley	MEM	Environmental internship with the City of Lakeville	2012
11	Sergey Molodtsov	MS	Climate change detection and attribution using GPS radio occultation and CMIP3 GCM data	2014
12	Tatiana Molodtsova	MS	Linking local weather to climate change: one year of Twitter in the US	2014
13	Jexia Wu	MS	Agricultural drought monitoring and prediction using soil moisture deficit index	2014
14	Seth Fore	Ph.D.	Land use change in North Dakota: Impact on ecosystem function and service (not finished)	
15	Gehendra Kharel	Ph.D.	The impacts of climate, land use, economics, and policies on the hydrology of the Devils Lake basin	2015
16	Jacob Coburn	MS	Statistical downscaling for the Northern Great Plains: A comparison of BCSD and canonical correlation analysis	2015
17	Cheri New	Ph.D.	Not finished	
18	Sergey Gulbin	M.S.	Impact of wetlands loss on the long-term flood risks of Devils lake in a changing climate	2017
19	Timothy Dillan	M.S.	A CMIP5 ensemble assessment of durum wheat production & the climate change in North Dakota, USA	2017
20	Bingjie Liu	Ph.D.	TBA	(2018)
21	Yeongbae Choe	Ph.D.	Modeling factors distinguishing market structure: implications for destination management	2017
22	Danni Wang	M.S.	The impact of service-based technology on customer satisfaction and purchase intention: evidence from Disney Magic Band users in Walt Disney World, Orlando, FL	2017
23	Shaorui Zhou	M.S.	Capstone Project	2017
24	Ellie Maccione	M.S.	TBA	(2017)
25	Bingjie Liu	Ph.D.	TBA	(2018)
26	David Ma	Ph.D.		2020

Curriculum development

Co-developed and taught two online courses on research methods and on statistics (graduate level)

Founding member of the ESSP Minor Program – Sustainability Studies

Re-designed ESSP 502 (10 credit) course, replacing the individual module-based student projects with integrated research

projects spanning over three modules. Based on project outcomes, three student-led scientific papers were published in peer-reviewed journals

Designed and implemented laboratory experiments for ESSP 501 and ESSP 502, centered at teaching climate change

Founded a regular graduate student research seminar Brownbag Friday Discussion

Developed/taught the following courses:

University of Florida:

HMG6583C Introduction to Data Mining for Social Science (traditional and online)

LEI 6931 Spatial Analysis for Social Data

LEI 4880 Research Methods in Tourism, Recreation and Sport Management (traditional and online)

HLP 6535 Research Methods (traditional and online)

HLP 6515 Evaluation Procedures in Health and Human Performance (traditional and online)

University of North Dakota:

ESSP 520 Earth Systems Modeling

ESSP 502 Earth System Science and Policy II, Global Biogeochemical Cycles block

ESSP 599 Readings in Climate Change

ESSP 599 Climate, Hydrology and Remote Sensing

ESSP 160 Sustainability & Society (co-teaching; topic: Climate change communication)

ESSP 200 Sustainability Science (co-teaching; topic: Methods of sustainability science)

Purdue University:

FNR 598M Ecological Modeling with Visual Basic

4. GRANTS AND CONTRACTS

Funded (Minor grants not listed)

2020. Kirilenko PI, Stepchenkova, Waddel Co-PIs. Eric Friedheim Tourism Institute. Economic and Social Value of Tourism Industry for Florida Communities: Objective Measures and Local Perceptions. \$19,950.

2019 – 2020. Kirilenko PI, Kim Co-PI. Florida Department of Transportation. Identification of tourist flows in Florida to support development of tourist travel module for FDOT Florida Transportation Model. \$160,000.

2016 – 2018. Developing approaches for evaluating alternative communication. US Army Corps of Engineers (Kirilenko PI), \$79,721.

2014 - 2019. North Dakota EPSCoR/ Center for Regional Climate Studies. NSF (Zhang PI; Kirilenko Co-PI), \$5,999,291.

2014 - 2015. People as sensors: Feasibility study on flood monitoring through Twitter communication data mining. UND Faculty Seed Money Award (Kirilenko PI), \$26,108.

2013. Summer Professorship Award, UND (Kirilenko PI), \$7,000; full GRA for two students.

2012. Development of conceptual and mathematical models to understand and describe the uncertainty of hydrological events in the changing conditions of the state of South Dakota, SDSU EPSCoR planning grant (Shmagin PI, Kirilenko Co-PI), \$6,512.

2011-14. Climate Change Communication: Engineering, Environmental Science, and Education (C3E3). NASA Applied Sciences Program (Primary institution: University of Texas, San Antonio; Kirilenko Co-PI), \$643,244.

2010-13. Northern Great Plains Center for People and the Environment. NASA Applied Sciences Program Grant #NNX10AH20G (Smith PI; Kirilenko Co-PI), \$3,000,014.

2009 - 2014. UND Center of Excellence in Space Technology and Operations. State of ND (Olsen PI; Kirilenko Co-I in the sub-project on application of the radio occultation data to climate change research), \$1,000,000.

2009 - 2011. The feasibility of combining NASA satellite data, general circulation models, and hydrologic model to inform decision making for flood mitigation on the Devils Lake basin of North Dakota. NASA Earth Science Applications Feasibility Studies (Zhang PI; Kirilenko Co-PI), \$114,247.

2010 - 2011. Communicating climate change. NASA Global Climate Change Education (GCCE) grant (Mullendor PI; Kirilenko Co-PI), \$149,000.

2009 - 2011. Northern Great Plains Center for People and the Environment. NASA Applied Sciences Program Grant #NNX09AQ81G (Seielstad PI; Kirilenko Co-PI). \$3,000,014.

2008 - 2009. Northern Great Plains Center for People and the Environment Phase II. NASA Applied Sciences Program Grant #NNX08AO97G (Seielstad PI; Kirilenko Co-PI) \$2,576,054.

2007 - 2008. Northern Great Plains Center for People and the Environment. NASA Applied Sciences Program Grant #NNX06AE16G (Seielstad PI; Kirilenko Co-PI), \$2,766,945.

Selected not funded

2017 – 2019. OR-DRPD-ROF2017: Impacts of extreme events on resilience and perception of climate change in Florida coastal tourism destinations. University of Florida (Kirilenko PI), \$80,651.

2016 - 2018. University of Florida Seed Grant DRPD-ROF2016. Comparative analysis of the climate change perceptions worldwide through image hosting website data mining (Kirilenko PI, Woodard Co-PI). \$92,707.

2016. Theodore Roosevelt National Park visitor experience. Theodore Roosevelt National Park (Stepchenkova PI, Kirilenko Co-PI). \$181,990.

2016. Resilience of coastal tourism to severe weather events in the Gulf of Mexico Region (Zambrano PI, Kirilenko, Fedler, Shariff, Kim, Broadbent, Habib, Pennington-Grey, Gibson, Fesenmaier Co-PIs).

2015. DRPD-ROF2016: Comparative analysis of the climate change perceptions worldwide through image hosting website data mining. U of Florida (Kirilenko PI, Woodard Co-PI), \$92,707

2014. Social network data mining for flood management. Google Inc. (Kirilenko PI), \$43,951

2014. People as sensors: Feasibility study on flood monitoring through Twitter communication data mining. Twitter, Inc. Data Grant (Kirilenko PI).

2013. Climate change impacts: peer-to-peer research-based Student Collaboration Network (SCoNe). THE U.S.-RUSSIA PEER-TO-PEER DIALOGUE PROGRAM, US Dept of State (Kirilenko PI), \$99,569.

2013. INnovative and Strategic Program Initiatives for Research and Education-North Dakota (INSPIRE-ND) NSF EPSCoR EPS-081442 (Zhang PI; Kirilenko Co-PI), \$20,000,000.

2010. Drought severity and climate change in Russia: from historical database to multi-model projection. US CRDF; Russian Academy of Science (Kirilenko PI), \$93,000.

2009. Climate Change and the Highway System: Impacts and Adaptation Approaches. Transportation Research Board NAS-NRC (Lim PI, Kirilenko Co-PI), \$990,554.

2008. Drought severity and climate change in Russia: from historical database to multi-model projection. US CRDF; Russian Academy of Science (Kirilenko PI), \$75,000.

2007. Reducing uncertainty in projection of climate change impact on geographical distributions of key pollinators for support of management decision. DOE National Institute for Climatic Change Research (Kirilenko PI), \$360,000.

2007. Climate change, Drought and Water Availability in Central Asia: Aral Sea case study. UND (Kirilenko PI), \$16,395.

5. PUBLICATIONS (*an asterisk designates a supervised student)

In preparation

Kirilenko, A., Long term trends in public opinion on climate change worldwide: content analysis of 50 million Twitter records.

Ma*, D., **Kirilenko**, A. Automated identification of tourist activities from social media photographs: a comparative analysis using image recognition, text modeling and fusion methods.

In review

Dorgu*, H., Stepchenkova, S., **Kirilenko**, A.P. Effect of Crowdedness, Personality Type, and Covid-19 on Tourist Experience: Experimental Photo-Elicitation. *Tourism Management*.

Dronin, N., **Kirilenko**, A. Recent grain production boom in Russia in historical context. *Climatic Change*.

Refereed

Refereed Journal Articles

62. 2020. Ma*, D., **Kirilenko**, A. Automated Identification of Tourist Activities in Social Media Photographs: a Comparative Analysis Using Visual-based, Textual-based and Joint-based Methods. *E-review of Tourism Research*, 17(4).
61. 2020. Wang*, L., Stepchenkova, S., & Kirilenko, A. P. Will the present younger adults become future orbital space tourists?. *Tourism Recreation Research*, 1-15.
60. 2020. **Kirilenko**, A. P., Stepchenkova, S. O., & Dai*, X. Automated topic modeling of tourist reviews: Does the Anna Karenina principle apply? *Tourism Management*, 83, 104241.
59. 2020. **Kirilenko**, A. P., Stepchenkova, S. O. Automated Topic Modeling of Negative Tourist Reviews. *E-review of Tourism Research*, 17(4), 532-545.
58. 2020. Mehraliyev*, F., **Kirilenko**, A., Choi, Y. From Measurement Scale to Sentiment Scale: Examining the Effect of Sensory Experiences on Online Review Rating Behavior. *Tourism Management*, 79: 104096, doi: 10.1016/j.tourman.2020.104096
57. 2020. Solis*, E.M., **Kirilenko**, A., Gomez, C.V. Indoor Gardening with Hydroponics: A Reddit Community Analysis to Identify Knowledge Gaps. *HortTechnology*, 30(3), 346-355.
56. 2020. Guerrero-Rodríguez*, R., Stepchenkova, S., **Kirilenko**, A. Experimental investigation of the impact of a destination promotional video with physiological and self-reported measures. *Tourism Management Perspectives*, 33: 1-13. 100625.
55. 2020. Ma*, D., **Kirilenko**, A., Stepchenkova, S. Special interest tourism is not so special after all: Big data evidence from the 2017 Great American Solar Eclipse. *Tourism Management* 77: 1-13; 104021.
54. 2020. Stepchenkova, S., Dai*, X., **Kirilenko**, A. P., & Su*, L. The influence of animosity, ethnocentric tendencies, and national attachment on tourists' decision-making processes during international conflicts. *Journal of Travel Research*, 59(8), 1370-1385.
53. 2020. Su*, L., **Kirilenko**, A. P., & Stepchenkova, S. The effect of geographical and personal proximity on online discussions of service failure incidents. *Current Issues in Tourism*, 23(18), 2230-2234.
52. 2020. Ma*, S., & **Kirilenko**, A. P. Climate Change and Tourism in English-Language Newspaper Publications. *Journal of Travel Research*, 59(2), 352-366.
51. 2020. Liang*, Y., **Kirilenko**, A., Stepchenkova, S., Ma*, D. Using social media to discover unwanted behaviours displayed by visitors to nature parks: comparisons of nationally and privately owned parks in the Greater Kruger National Park, South Africa. *Tourism Recreation Research*, 45(2), 271-276.
50. 2019. Su*, L.J., Stepchenkova, S., **Kirilenko**, A. P. Online public response to a service failure incident: Implications for crisis communications. *Tourism Management*, 73:1-12. doi.org/10.1016/j.tourman.2019.01.011.
49. 2019. Stepchenkova, S., **Kirilenko**, A. P., Shichkova, E. Influential factors for intention to visit an adversarial nation: Increasing robustness and validity of findings. *International Journal of Tourism Cities*: 5(3), 491-510. doi/10.1108/IJTC-11-2018-0085.
48. 2019. Gulbin*, S., **Kirilenko**, A., Kharel*, G., Zhang, X. Wetland loss impact on long term flood risks in a closed watershed. *Environmental Science & Policy*, 94, 112-122.
47. 2019. **Kirilenko**, A., Stepchenkova, S., Hernandez, J.M. Comparative clustering of destination attractions for different origin markets with network and spatial analyses of online reviews. *Tourism Management*, 72, 400-410.

46. 2018. **Kirilenko**, A., Stepchenkova, S. Tourism research from its inception to present day: Subject area, geography, and gender distributions. *PLOS ONE* 13(11): e0206820, 1-20.
45. 2018. Hernandez, J.M., **Kirilenko**, A., Stepchenkova, S. Network approach to tourist segmentation via user-generated content. *Annals of Travel Research*, 73, 35-47.
44. 2018. Kharel*, G., Romsdahl, R., **Kirilenko**, A., Managing the wicked problem of Devils Lake flooding along the USA-Canada border. *International Journal of Water Resources Development*, doi: 10.1080/07900627.2018.1523050
43. 2018. Romsdahl, R., Blue, G., **Kirilenko**, A. Action on climate change requires deliberative framing at local governance level. *Climatic Change*, 149(3-4), 277-287.
42. 2018. **Kirilenko**, A. Review of Urban Social Listening, Potential and Pitfalls for Using Microblogging Data in Studying Cities by Justin B. Hollander, Erin Graves, Henry Renski, Cara Foster-Karim, Andrew Wiley, and Dibyendu Das, (London, Palgrave Macmillan, 2016). *Journal of Urban Affairs*, 40, 1177-1178.
41. 2018. Kharel*, G., **Kirilenko**, A. Comparing CMIP-3 and CMIP-5 climate projections on flooding estimation of Devils Lake of North Dakota, USA. *PeerJ*, 6, e4711; doi: 10.7717/peerj.4711
40. 2017. **Kirilenko**, A. Data for Sochi 2014 Olympics discussion on social media. *Data in Brief*, 13, 605-608
39. 2017. **Kirilenko**, A., Desell, T., Kim*, H. N., Stepchenkova, S. Crowdsourcing Analysis of Twitter Data on Climate Change: Paid Workers vs. Volunteers. *Sustainability*, 9(11), 1-15; doi:10.3390/su9112019
38. 2017. **Kirilenko**, A., Stepchenkova, S., Kim*, H. N., Li, X. Automated Sentiment Analysis in Tourism: Comparison of Approaches. *Journal of Travel Research*, 57(8), 1012-1025.
37. 2017. **Kirilenko**, A., Stepchenkova, S. Sochi-2014 Olympics on Twitter: The Perspectives of Hosts and Guests. *Tourism Management*, 63, 54 – 65.
36. 2017. Romsdahl, R.J., **Kirilenko**, A., Wood, R.S., Hultquist, A. Assessing National Discourse and Local Governance Framing of Climate Change for Adaptation in the United Kingdom. *Environmental Communication*, 11(4), 515-536.
35. 2016. Molodtsova*, T., Molodtsov*, S., **Kirilenko**, A., Zhang, X., VanLooy, J. Evaluating flood potential with GRACE in the United States. *Natural Hazards and Earth System Sciences*, 16, 1011-1018.
34. 2016. Kharel*, G., Zheng, H., **Kirilenko**, A., Can land use change mitigate long-term flood risks? *Regional Environmental Change*, 16(8), 2443 – 2456.
33. 2016. **Kirilenko**, A.P., Stepchenkova, S. Inter-Coder Agreement in One-to-Many Classification: Fuzzy Kappa. *PLoS ONE*, 11(3): e0149787. doi:10.1371/journal.pone.0149787
32. 2015. Dronin, N., Telnova, N., **Kirilenko**, A., Milanova, E., Kalutskova, N., Observed and projected climate change and its impact on ecosystems' productivity in forest-steppe and steppe zones of Russia and neighboring (FSU) countries. *Romanian Journal of Geography*, 59(2), 91–100.
31. 2015. Kharel*, G., **Kirilenko**, A. Considering Climate Change in the Estimation of Long-Term Flood Risks of Devils Lake in North Dakota. *Journal of the American Water Resources Association*, 51(5), 1221-1234.
30. 2015. **Kirilenko**, A., Molodtsova*, T., Stepchenkova, S. People as sensors: mass media and local temperature influence climate change discussion on Twitter. *Global Environmental Change*, 30, 92-100.
29. 2014. **Kirilenko**, A., Stepchenkova, S. Public microblogging on climate change: One year of Twitter worldwide. *Global Environmental Change*, 26, 171-182.
29. 2014. Stepchenkova, S., Kim, H., **Kirilenko**, A. Cultural Differences in Pictorial Destination Images: Russia through the Camera Lenses of American and Korean Tourists. *Journal of Travel Research*, 54(6), 758-773.
28. 2013. Proulx*, R.A., Knudson*, M., Kirilenko, A., VanLooy, J.A., Zhang, X. Significance of surface water in the terrestrial water budget: A case study in the Prairie Coteau using GRACE, GLDAS, Landsat, and groundwater well data. *Water Resources Research*, 2013, 49(9), 5756-5764
27. 2013. Dronin, N., **Kirilenko**, A. Weathering the Soviet countryside: The impacts of climatic and political factors on dynamics of grain yields in Russia over the past five decades. *The Soviet and Post-Soviet Review*, 40, 114-143.
26. 2012. Dronin, N., **Kirilenko**, A. Rol' klimaticheskogo i politjekonomicheskogo faktora v otechestvennoi istorii XX veka (The role of climate and political economics in national history in the 20th century). *Moscow University Geography Bulletin*, 5, 13-18 (in Russian).

25. 2012. **Kirilenko**, A., Stepchenkova, S. Climate Change Discourse in Mass Media: Application of Computer-Assisted Content Analysis. *Journal of Environmental Studies and Sciences*, **2**(2), 178-191.
24. 2012. Lemons*, R., Hewitt*, A., Kharel*, G., New*, C., **Kirilenko**, A., Zhang, X. Evaluation of satellite-derived agro-climate variables in the Northern Great Plains. *Geocarto International*, **27**(8), 613-626.
23. 2012. **Kirilenko**, A., Stepchenkova, S., Romsdahl, R., Matiss*, K. Computer-assisted analysis of public discourse: a case study of the precautionary principle in the US and UK Press. *Quantity and Quality*, **46**(2), 501-522.
22. 2011. Munski, L.B., **Kirilenko**, A., Remer, F.M., Mullendore, G.L., Baker, M.E. Undergraduates using multimedia to present how climate and land use are interrelated: an overview of the Communicating Climate Change program at the University of North Dakota. *Prairie Perspectives: Geographical Essays*, **14**, 10-16.
21. 2010. Dronin, N., **Kirilenko**, A. Climate change, food stress, and security in Russia. *Regional Environmental Change*, **11**(1), 167-178.
20. 2010. Stepchenkova, S., Tang, L., Jang, S.C., **Kirilenko**, A., Morrison, A. Benchmarking CVB website performance: spatial and structural patterns. *Tourism Management*, **31**(6), 611-620.
19. 2009. Bryant, J.P., Clausen, T.P., Landhäusser, S.M., Swihart, R.K., **Kirilenko**, A.P., Carrière, S., Stevens, M.T., Cleland, D.T., Jakubas, W.J., Williams, J.H., Veitch, A.M., Popko, R.A., Hawkins, C.D.B., Carlson, M.R., Weber, R.J., Packee, E.C., Malone, T.T., Lehmkhul, K.L., Cebrian, M., Paragi, T.F., Niemi, F.M., Picone, P.M., Brown, S.C., Moore, J.E., Glowacky, E., Kangas, A. Fire Drives Transcontinental Variation in Tree Birch Defense against Browsing by Snowshoe Hares. *American Naturalist* **174**(1), 13-23.
18. 2008. Stepchenkova, S., **Kirilenko**, A., Morrison, A. Facilitating content analysis in tourism research. *Journal of Travel Research*, **47**(4), 454-446.
17. 2008. Dronin, N., **Kirilenko**, A. Climate change and food stress in Russia: what if the market transforms as it did during the past century? *Climatic Change*, **86**(1-2): 123-150.
16. 2007. **Kirilenko**, A., Sedjo, R. Climate Change Impacts on Forestry. *PNAS*, **104**, 19697-19702.
15. 2007. Alcamo, J., Dronin, N., Endejan, M., Golubev, G., **Kirilenko**, A. A New Assessment of Climate Change Impacts on Food Production Shortfalls and Water Availability in Russia. *Global Environmental Change*, **17**(3), 429-444.
14. 2007. **Kirilenko**, A., Chivoiu, B., Crick, J., Ross-Davis, A., Schaaf, K., Shao, G., Swihart, R., Singhania, V. An Internet-based decision support tool for non-industrial private forest landowners. *Environmental Modelling and Software*, **22**, 1498-1508.
13. 2004. **Kirilenko**, A.P., Alcamo, J., Golubev, G.N., Dronin, N.M., and Endejan, M. Modeling the Impact of Climate Changes on Agriculture in Russia. *Doklady Akademii Nauk Geografia (Reports of Russian Academy of Sciences, Geography)*, **396**(6), 819-822.
12. 2001. **Kirilenko**, A.P. On variability of predicted vegetation migration under changing climate. *Doklady Akademii Nauk Rossii. (Reports of Russian Academy of Science)*, **376**(1), 130-133.
11. 2000. **Kirilenko**, A.P., Belotelov, N.V., Bogatyrev, B.G. Global model of vegetation migration: incorporation of climatic variability. *Ecological modelling*, **132**(1-2), 125-134.
10. 1998. Lighthart, B., **Kirilenko**, A.P. Simulation of summer-time diurnal bacterial dynamics in the atmospheric surface layer. *Atmospheric Environment*, **32**(14/15), 2491-2496.
9. 1998. **Kirilenko**, A.P., Solomon, A.M. Modelling dynamic vegetation response to rapid climate change using bioclimatic classification. *Climatic Change*, **38**(1), 15-49.
8. 1997. Solomon, A.M., **Kirilenko**, A.P. Climate change and terrestrial biomass: What if trees do not migrate? *Global Ecology and Biogeography Letters*, **6**, 139-148.
7. 1997. Krankina, O.N., Dixon, R.K., **Kirilenko**, A.P., Kobak, K.I. Global climate change adaptation: examples from Russian boreal forests. *Climatic change*, **36**, 197-215.
6. 1996. Belotelov, N.V., Bogatyrev, B.G., **Kirilenko**, A.P., Venevsky, S.V. Modelling of time-dependent biome shifts under global climate changes. *Ecological Modelling*, **87**(3-4), 29-40.
5. 1996. Belotelov, N.V., Bogatyrev, B.G., **Kirilenko**, A.P. Dynamic bioclimatic approach to modeling vegetation shifts. *PhysTech Journal*, **2**(4), 47-58.
4. 1994. **Kirilenko**, A.P., Belotelov, N.V., Bogatyrev, B.G. Simulation of vegetation zones' shifts and climate variability.

Doklady Akademii Nauk Rossii (Reports of Russian Academy of Science) **338**(1), 116-118 (in Russian).

3. 1992. Tarko, A.M., Bogatyrev, B.G., **Kirilenko**, A.P. Proportion of countries and regions in the formation of global atmospheric carbon dioxide budget. Doklady Akademii Nauk SSSR (Reports of the USSR Academy of Science), **322**(3), 610-613 (in Russian, English summary).
2. 1991. **Kirilenko**, A.P. Mathematical model of water cycle in forest ecosystems. Zhurnal Obschey Biologii (Journal of General Biology), **52**(6), 863-867 (in Russian, English summary).

Books, Book Chapters

27. 2021. Wang*, L., & **Kirilenko**, A. P. Do Tourists from Different Countries Interpret Travel Experience with the Same Feeling? Sentiment Analysis of TripAdvisor Reviews. In Information and Communication Technologies in Tourism 2021 (pp. 294-301). Springer, Cham.
26. 2021. Ma*, S., & **Kirilenko**, A. How Reliable Is Social Media Data? Validation of TripAdvisor Tourism Visitations Using Independent Data Sources. In Information and Communication Technologies in Tourism 2021 (pp. 286-293). Springer, Cham.
25. 2019. McClain, S., ..., **Kirilenko**, A.P., ... (Multiple authors). Chapter 4: Cross-cutting Issues. In: Global Environment Outlook (GEO-6): Healthy Planet, Healthy People. United Nations Environment Programme, Nairobi, Kenya.
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6. PROFESSIONAL PRESENTATIONS

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86. 2019. Liang, Y.*, **Kirilenko**, A.P., Stepchenkova, S.O., Using Social Media Photographs to Analyze Tourists' Risky Behaviors. American Association of Geographers Annual Meeting, Washington, DC, April 3-7. 2019
85. 2019. Su, L.*, **Kirilenko**, A.P., How Citizens Utilize In-State Recreation Resources: A Geographically Weighted Regression Analysis of Floridian's TripAdvisor Reviews. American Association of Geographers Annual Meeting, Washington, DC, April 3-7. 2019
84. 2019. Stepchenkova, S.O., **Kirilenko**, A.P., Hernández, J.M. Comparing Tourism Clusters with Network and Spatial Analyses of Online Reviews. American Association of Geographers Annual Meeting, Washington, DC, April 3-7. 2019
83. 2019. **Kirilenko**, A.P., Stepchenkova, S.O., Hernández, J.M. Tourist segmentation through network analysis of user generated content. American Association of Geographers Annual Meeting, Washington, DC, April 3-7. 2019
82. 2018. Ma*, S., and **Kirilenko**, A. Identify Tourist Activities and Spatial Distributions from Geotagged Instagram Photos. TTRA Annual International Conference (TTRA 2018), June 26-28, 2018. Miami, USA
81. 2018. **Kirilenko**, A. P., Stepchenkova, S., & Fesenmaier, D. Tourism Analytics: Preparing students for the digital revolution in tourism. The 7th International Tourism Studies Association (ITSA) Biennial Conference and the 2nd International Tourism Educators South Africa (TESA) Conference, August 6-10, Tshwane, South Africa.
80. 2018. Stepchenkova, S., **Kirilenko**, A. Tourism Analytics: preparing students for digital revolution in tourism. 7th International Tourism Studies Association (ITSA) conference, Tshwane, South Africa, August 6-10, 2018.
79. 2018. **Kirilenko**, A.P., Ma, D*. Public perceptions of Climate Change impacts on Tourism: content analysis of newspapers and social media publications worldwide. The Fifth International Conference on Climate, Tourism and Recreation CCTR 2018, Umea, Sweden, June 25-27, 2018.
78. 2018. Ma, D.*, **Kirilenko**, A. P. Integration of social media from multiple platforms for destination research. Association of American Geographers, New Orleans, LA, Apr. 10, 2018.
77. 2018. **Kirilenko**, A. P., Ma, D.*. Public perceptions of climate change impacts on tourism: content analysis of newspapers and social media publications worldwide. Association of American Geographers, New Orleans, LA, Apr. 10, 2018.
76. 2018. Stepchenkova, S., **Kirilenko**, A. P. Trends in Tourism Research from the 1970s: Topical, Geographical, and Gender Distributions. Association of American Geographers, New Orleans, LA, Apr. 10, 2018.
75. 2018. Su, L.*, Stepchenkova, S., **Kirilenko**, A. P. The power of a headline: Hotel service failure on Sina Weibo. The 23rd Annual Graduate Education and Graduate Student Research Conference in Hospitality and Tourism. January 3-5, Fort Worth, Texas, USA.

74. 2017. Stepchenkova, S., **Kirilenko**, A. P. Looking at long-term trends in tourism scholarship with Big Data analytics. *Workshop on Analytics in Tourism Design*, November 10-13, Vienna, Austria.
73. 2017. Stepchenkova, S., **Kirilenko**, A. Intention of young Russian tourists to visit country-target of animosity: Theory- and data-driven models. 7th Advances in Hospitality and Tourism Marketing and Management conference, Famagusta, Cyprus, July 10-15.
72. 2017. **Kirilenko**, A., Ma*, S. (g) Climate change and tourism in English language newspaper publications. 7th Advances in Hospitality and Tourism Marketing and Management conference, Famagusta, Cyprus, July 10-15.
71. 2017. **Kirilenko**, A. Comparative analysis of Sochi Olympics coverage in general and social media. 3rd Global Tourism & Hospitality Conference, June 5-7, Hong Kong, China
70. 2017. Stepchenkova, S., **Kirilenko**, A. Tourist decision-making model to visit country-target of animosity. 3rd Global Tourism & Hospitality Conference, June 5-7, Hong Kong, China
69. 2017. **Kirilenko**, A., Stepchenkova, S. Changing geography of climate change discourse on Twitter. American Association of Geographers Annual Meeting, Boston, April 5-9, 2017.
68. 2016. Stepchenkova, S., **Kirilenko**, A. Content and Sentiment Analyses of Travel Barriers to China. 4th Interdisciplinary Tourism Research Conference, May 24-29, Bodrum, Turkey.
67. 2016. **Kirilenko**, A., Stepchenkova, S. Content analysis of public perceptions of Sochi Olympics using mass media and social networks data mining. 4th Interdisciplinary Tourism Research Conference, May 24-29, Bodrum, Turkey.
66. 2016. **Kirilenko**, A., Stepchenkova, S. Public opinion mining on Sochi-2014 Olympics, CARMA 2016 - 1st International Conference on Advanced Research Methods and Analytics, July 6-7, Valencia, Spain.
65. 2016. Dillon*, T., **Kirilenko**, A. A CMIP5 Ensemble Assessment of Climate Change Impact on Durum Wheat Production in North Dakota, USA. American Geophysical Union Fall Meeting, Dec. 12-16, San Francisco, CA.
64. 2016. Gulbin*, S., **Kirilenko**, A., Accounting for wetlands loss in a changing climate in the estimation of long-term flood risks of Devils Lake, North Dakota. American Geophysical Union Fall Meeting, Dec. 12-16, San Francisco, CA.
63. 2016. Milanova, E., Nikanorova*, A., Dronin, N., **Kirilenko**, A. Water deficit estimation in connection with climate change in the Fergana valley, Central Asia. The 9th IGU Conference on Land Use changes, climate extremes and disaster risk reduction, March 23-25 Delhi, India.
62. 2016. **Kirilenko**, A., Kharel*, G., Zheng, H., Gulbin*, S. Effects of climate and land use change on the long-term flooding in the Devils Lake, North Dakota watershed. Association of American Geographers Annual Meeting, March 28 - April 2, San Francisco, CA.
61. 2015. Mullendore, G.L., Kennedy, A.D., Simms, M., **Kirilenko**, A., Coburn, J. Dynamical Downscaling of Global Circulation Models With the Weather Research and Forecast Model in the Northern Great Plains. American Geophysical Union Fall Meeting, Dec. 14-18, San Francisco, CA.
60. 2015. Dronin, N., **Kirilenko**, A., Liobimtseva, E. Estimates of grain exports of Russia, Ukraine and Kazakhstan for the 2020s. Agriculture and Climate Change in Transition Economies, June 17-19, Halle, Germany.
59. 2015. **Kirilenko**, A., Stepchenkova, S. Sochi Olympics on Twitter: Geographical Landscape and Temporal Dynamics. Association of American Geographers Annual Meeting, April 21-25, Chicago, IL
58. 2015. **Kirilenko**, A., Zypchin, K., Gulbin*, S. Social network data mining for flood management: 2013 Alberta flooding case study. Association of American Geographers Annual Meeting, April 21-25, Chicago, IL
57. 2015. Romsdahl, R.J., **Kirilenko**, A. Changing the Narrative: Assessing Local Governance of Climate Change in the United Kingdom. Midwest Political Science association, Apr. 16-19, Chicago, IL.
56. 2014. **Kirilenko**, A., Molodtsova*, T., Stepchenkova, S. People as sensors: mass media and local temperature influence climate change discussion on Twitter. American Geophysical Union Fall Meeting, Dec. 15-19, San Francisco, CA.
54. 2014. Kharel*, G., **Kirilenko**, A. Taking climate change into estimation of long-term flood risks: A case of Devils Lake of North Dakota, USA. American Geophysical Union Fall Meeting, Dec. 15-19, San Francisco, CA.
54. 2014. Kharel*, G., **Kirilenko**, A. Taking Climate Change into Estimation of Long-Term Flood Risks: A Case of One Billion Dollar Disaster. Water and Society: A Space-Time Framework for Integrated Studies. May 2014, CAES-CNRS, Oleron, France.

53. 2014. Kharel*, G., **Kirilenko**, A. Estimating long-term flood risks under changing climate: a case of Devils Lake, ND. 7th International Congress on Environmental Modelling and Software, June 2014, San Diego, California.
52. 2013. Molodtsov*, S., **Kirilenko**, A., Olsen, D. Climate Change detection using GPS RO and CMIP5 data. American Geophysical Union Fall Meeting, Dec. 9-13, San Francisco, CA.
51. 2013. Molodtsova*, T., **Kirilenko**, A., Stepchenkova, S. Utilizing the social media data to validate “climate change” indices. American Geophysical Union Fall Meeting, Dec. 9-13, San Francisco, CA.
50. 2013. Kharel*, G., **Kirilenko**, A. Modeling the Impacts of Climate Change on the hydrology of the Devils Lake Basin of North Dakota. 2013 International SWAT conference, Toulouse, France, July 19, 2013.
49. 2013. **Kirilenko**, A., Stepchenkova, S. Inter-Coder Reliability Assessment with Fuzzy Kappa: Climate Change Discourse, Travel Reviews, and Visual Images Applications. International Communication Association, June 17-21, 2013, London, UK.
48. 2013. Stepchenkova, S., **Kirilenko**, A., Kim, H. Grassroots Branding with Twitter: Amazing Florida. ENTER 2013, Jan. 22-25 2013, Innsbruck, Austria.
47. 2012. Mullendore, G., Munski, L., **Kirilenko**, A., Remer, F., Baker, M. Challenges of Communicating Climate Change in North Dakota: Undergraduate Internship and Collaboration with Middle School Educators. American Geophysical Union Fall Meeting, Dec. 3-7, San Francisco, CA.
46. 2012. **Kirilenko**, A., Stepchenkova, S. Detecting climate change through distributed human sensor network: climate change in social media. American Geophysical Union Fall Meeting, Dec. 3-7, San Francisco, CA.
45. 2012. Molodtsova*, T., **Kirilenko**, A. Development of the Climate Change Perception Index (CCPI). American Geophysical Union Fall Meeting, Dec. 3-7, San Francisco, CA.
44. 2012. Molodtsov*, S., **Kirilenko**, A., Olsen, D. GCM simulated geopotential heights compared to GPS RO data. American Geophysical Union Fall Meeting, Dec. 3-7, San Francisco, CA.
43. 2012. Dronin, N.M., **Kirilenko** A.P., 2012. Weather-related yield of cereals in Russia in the 20th century (1958–1990) (Zavisimost’ urozhaev zernovyh ot pogodnyh uslovij v Rossii v XX veke (1958–1990 gg.)) International Scientific Conference “Regional effects of global climate change in the XXI century (drivers, consequences, projections)”, Voronezh, Russia, June 26–27.
42. 2012. Mullendore, G., Munski, L., **Kirilenko**, A., Remer, F., Baker, M., Southerland, K. Communicating Climate Change: Undergraduate Internship and Development of Middle School Lesson Plans, NASA-NOAA-NSF Climate Change Education Principal Investigators Meeting, Arlington, VA, Apr. 17-20, 2012.
41. 2012. Lim, Y.H., Zhang, X., **Kirilenko** A., Teng, W., Munna, H. Flood frequency analysis of Devils Lake under current and projected future climates utilizing HEC hydrologic models, NASA satellite observations and downscaled GCM simulations. World Environmental and Water Resources Congress, Albuquerque, New Mexico, May 20-24, 2012.
40. 2011. Mullendore, G., Munski, L., **Kirilenko**, A., Remer, F., Baker, M. Undergraduates using multimedia to present climate research in their own words: An overview of the Communicating Climate Change program at the University of North Dakota. 91st American Meteorological Society Annual Meeting, January 22-26, 2012, New Orleans, LA.
39. 2011. WCRP Open climate conference, Oct. 24-28, Denver, CO (no presentation).
38. 2011. Kharel*, G., Kirilenko, A., Zhang, X. Performance of TMPA satellite precipitation product over the Northern Great Plains. American Geophysical Union Fall Meeting, Dec. 5-12, San Francisco, CA.
37. 2011. **Kirilenko** A., Zhang, X., Lim, Y.H., Teng, W., Climate change impacts on North Dakota: agriculture and hydrology. American Geophysical Union Fall Meeting, Dec. 5-12, San Francisco, CA.
36. 2011. Lin, Z, **Kirilenko**, A.P., Rahman, M.M. Coping with uncertainty in assessing climate change impacts on streamflows. AWRA 2011 spring specialty conference, Baltimore, April 18-20, 2011.
35. 2010. Munski, L.B., **Kirilenko**, A., Remer, F.M., Mullendore, G.L., Baker, M.E. Undergraduates using multimedia to present how climate and land use are interrelated: an overview of the Communicating Climate Change program at the University of North Dakota. PCAG 34th Annual Conference and Annual General Meeting, University of Saskatchewan, September 24-26, 2010.
34. 2010. **Kirilenko** A., Dronin, N., Climate change impacts on water availability: developing regional scenarios for agriculture of the Former Soviet Union countries of Central Asia. American Geophysical Union Fall Meeting, Dec. 14-18, San Francisco, CA.

33. 2010. Xiaodong, Z., Lim, Y.H., **Kirilenko** A., Teng, W., Combining hydrological modeling and remote sensing observations to enable data-driven decision making for Devils Lake flood mitigation in a changing climate. American Geophysical Society Fall Meeting, Dec. 14-18, San Francisco, CA.
32. 2010. **Kirilenko** A. Climate change, water, and agriculture. Can we base our projections on a yield model alone? International Congress on Environmental Modelling and Software IEMSS, July 5-8, Ottawa, Canada.
31. 2009. **Kirilenko** A., Dronin, N., Xiaodong, Z. Climate change, water, and agriculture: a study of two contrasting regions. American Geophysical Society Fall Meeting, Dec. 14-18, San Francisco, CA.
30. 2009. Xiaodong, Z., Lim, Y.H., **Kirilenko** A., Teng, W., Will the Devils Lake of North Dakota continue to rise: A case study of combining NASA satellite data, global climate model and hydrologic model. American Geophysical Society Fall Meeting, Dec. 14-18, San Francisco, CA.
29. 2009. Ready or not: Global Challenges, College Learning, and America's Promise. Association of American Colleges and Universities, January 21-24, Seattle, Washington (no presentation).
28. 2009. American Meteorological Society Science 89th Annual Meeting, January 10, Phoenix, AZ (no presentation).
27. 2009. Milanova, E., Kirilenko, A., Dronin, N. Agriculture and climate change in Russia (input to IGU-LUCC atlas). EUGEO congress, August 13-16, 2009, Bratislava, Slovakia, p. B43.
26. 2008. **Kirilenko** A., Dronin, N. Climate Change and Water Resource in North Caucasus and South Urals. NATO Advanced Research Workshop on Rescue of Sturgeon Species by means of Transboundary Integrated Water Management of the Ural River Basin. Orenburg, Russia, 13-16 June, 2007.
25. 2008. **Kirilenko** A., Hanley, R. Reducing Uncertainty in Ecological Niche Models with Artificial Neural Networks Ensembles. International Congress on Environmental Modelling and Software IEMSS, Barcelona, Spain, July 7-10, 2008.
24. 2008. Stepchenkova, S., Tang, L., Jang, S., **Kirilenko**, A., Morrison, A. Mapping CVB website quality: Spatial and structural patterns. The 13th Annual Hospitality and Tourism Graduate Student Education and Research Conference. Orlando, FL, January 3-5, 2008.
23. 2007. **Kirilenko** A., Hanley, R. Predicting climate change impact on insect biodiversity: comparison of scenarios. San Jose, Costa Rica, June 25-29, 2007.
22. 2007. **Kirilenko**, A.P., Hanley, R.S. Using multiple methods to predict climate change impacts on bumblebees in North America. The Third IASTED International Conference on Environmental Modelling and Simulation EMS 2007, August 20-22, 2007, Honolulu HI, USA.
21. 2007. **Kirilenko**, A., Climate change impact on cereals production: adaptation under constraints. Fourth USDA Greenhouse Gas Conference: Positioning Agriculture and Forestry to Meet the Challenges of Climate Change February 6 - 8, 2007 Baltimore, Maryland
20. 2006. **Kirilenko**, A., Integrated Modeling of Land Use Change. A Summit on Environmental Modelling and Software, Burlington, Vermont, July 9-12, 2006.
19. 2006. Stepchenkova, S., **Kirilenko**, A., Morrison, A. Facilitating statistical analysis of digital textual data: a two-step approach. 11th Annual Conference on Graduate Education and Graduate Student Research in Hospitality and Tourism, Seattle, January 5-7, 2006. Best paper nomination.
18. 2005. Dronin, N., **Kirilenko**, A., Climate Change and Food Stress in Russia: A Comparison of Socioeconomic Scenarios. 24th Annual Balaton Group Meeting. Regional-Scale Models for Sustainability. Balaton, Hungary, September 16-19.
17. 2005. Dronin, N., **Kirilenko**, A., Climate Change and Food Stress in Russia: A Comparison of Market Scenarios. Summer school "Environment and Development: Policies for our Sustainable Future", Simferopol, Ukraine. June 27 – July 18.
16. 2004. **Kirilenko** A. Spatially distributed integrated modeling of land use change impact on hydrology. IASTED International Conference on Environmental Modelling and Simulation, St. Thomas, US VI, Nov. 22-24, 2004.
15. 2003. **Kirilenko**, A., Alcamo, J., Dronin, N., Endejan, M., Golubev, G. Assessment of Climate Change Impact on Agriculture. The 30th International Symposium on Remote Sensing of Environment. Honolulu, November 10-14.
14. 2003. Alcamo, J., Dronin, N., Endejan, M., Golubev, G., **Kirilenko**, A. A new perspective on the impacts of climate change on Russian agriculture and water resources. World Climate Change Conference. Moscow, Russia, 29 September - 3 October
13. 2003. **Kirilenko**, A., Dronin, N. Climatic and political factors in agricultural performance of Russia. Workshop on Global

and Regional Land Use/Cover Changes, International Geographic Union. Moscow, Russia, July 17-20.

12. 2003. Alcamo, J., Golubev, G., Endejan, M., Dronin N., **Kirilenko** A. Climate change and its impact on agricultural production in regions of Russia. Workshop in Global and Regional Land Use/Cover Changes, International Geographic Union. Moscow, Russia, July 17-20.
11. 2003. Shao, G., **Kirilenko**, A., Martin, B. Enhancing precision in assessing forest acreage changes with remotely sensed data. Proceedings of the Second International Precision Forestry Symposium, Seattle, Washington, June 15-17, 2003, 67-74.
10. 2003. **Kirilenko** A. Modeling agriculture in changed climate: impact and adaptation. The 14th Global Warming International Conference & Expo. May 27-30, Boston, USA, p. 23.
9. 1996. Solomon, A.M. and **Kirilenko**, A.P. The impacts of future rapid climate change on slowly responding boreal forests. In: Proceedings of the 7th conf. of the International Boreal Forest Research Association. Aug. 19-23, St. Petersburg, Russia, p. 47.
8. 1995. **Kirilenko**, A.P., Belotelov, N.V., Bogatyrev, B.G. Dynamic model of global vegetation. 10th International conf. on state of the art in ecological modeling. Beijing, China, Aug. 15-17. p. 52.
7. 1994. Belotelov, N.V., Bogatyrev, B.G., **Kirilenko**, A.P. Modeling of time-dependent vegetation shifts at a global scale under climate changes. 5th Global Warming International Conference & Expo (San-Francisco, USA, Apr. 4-7), SUPCON International, Chicago, USA, p.12.
6. 1993. **Kirilenko** A.P., Bogatyrev B.G. Simulation of structural changes in forest associations due to alternation in production process. Forests of Russian Plains Conference, Moscow, INION RAN, 80-82. (in Russian)
5. 1993. Bogatyrev, B.G., **Kirilenko**, A.P., Belotelov, N.V. Modeling of vegetation pattern transformation under dynamic scenarios of climate change. Forests of Russian Plains Conference, Moscow, INION RAN, 28-29. (in Russian)
4. 1993. Belotelov N.V., Bogatyrev B.G., **Kirilenko** A.P. Modeling vegetation dynamics using landscape approach. In: Proceedings of the conf. Forests of Russian Plains Conference, Moscow, INION RAN, 15-18. (in Russian)
3. 1990. **Kirilenko**, A.P. Simulation of impact of anthropogenic climate change on dynamics of coniferous. Mathematical modeling of Phytocenose conference, Acad. Sci. USSR, Moscow, Russia, 55-57 (in Russian)
2. 1990. **Kirilenko**, A.P. Modeling of taiga ecosystem reaction to anthropogenic impacts. Problems of biological systems stability Conference, Kharkov, 461-462 (in Russian).
1. 1989. **Kirilenko**, A.P., Tarko, A.M. A model of natural ecosystem dynamics. Mathematical problems of ecology conference, Chita Natural Resources Institute, Acad. Sci. USSR, Chita, Russia, 34-36 (in Russian)

State

11. 2016. Dillon*, T., **Kirilenko**, A., Simulating Future Yields of Canola (*Brassica rapa*) and Durum Wheat (*Triticum durum*) in North Dakota under Future Climate Scenarios. ND EPSCoR/IDeA 2016 State Conference, April 19, Grand Forks, ND.
10. 2016. Gulbin*, S., **Kirilenko**, A., Zhang, X, Accounting for Wetlands Loss in the Estimation of Long-Term Flood Risks of Devils Lake in North Dakota. ND EPSCoR/IDeA 2016 State Conference, April 19, Grand Forks, ND.
9. 2012. Molodtsov*, S., **Kirilenko**, A. GCM simulated geopotential heights compared to GPS RO data. EPSCoR 2-12 State Conference, Sept. 18, Grand Forks, ND.
8. 2012. Kharel*, G., **Kirilenko**, A. Estimating Future Devils Lake Water Levels Using the Soil and Water Assessment Tool (SWAT). Beginnings, Breakthroughs, and Beautiful Ideas including the ND EPSCoR 2012 State Conference, Sept. 18, Grand Forks, ND.
7. 2012. Molodtsova*, T., **Kirilenko**, A. Weather anomalies affect Climate Change microblogging intensity. Beginnings, Breakthroughs, and Beautiful Ideas including the ND EPSCoR 2012 State Conference, Sept. 18, Grand Forks, ND.
6. 2012. Biesecker, M., ... **Kirilenko**, A., ... (35 authors). Development of conceptual and mathematical models to understand and describe the uncertainty of hydrological events in the changing conditions of the State of South Dakota. 2012 Western South Dakota Hydrology Conference, Rapid City, SD. April 19, 2012.
5. 2011. **Kirilenko** A., Climate change discourse in mass media: application of computer-assisted content analysis. ESSP Brownbag discussion seminar, Oct. 21, UND, Grand Forks, ND.

4. 2011. Lemons*, R., Hewitt*, A., Kharel*, G., New*, R., **Kirilenko**, A., Zhang, X. Evaluation of satellite-derived agro-climate variables in the Northern Great Plains. ND-SD joint EPSCoR conference, Oct. 4, 2011, NDSU, Fargo, ND.
3. 2004. Bhati, M.S., Chivoiu, B., Crick, J., **Kirilenko**, A., Ross-Davis, A., Schaaf, K., Shao, G., Singhania, V., Swihart, R. 4S Tool: Building Wildlife Values into a Web-Based Support System for Forest Landowners. Fish and Wildlife at the Crossroads: Preparing for Future Challenges. 65th Annual Midwest Fish and Wildlife Conference, Indianapolis, IN, Dec. 12-15.
2. 2004. **Kirilenko**, A., Schaaf, K. Stand Support Software System Tool for Non-industrial Private Forest Landowners: Future Directions for Version 2.0. IFAFS Sustaining Private Forest Consortium Conference, West Lafayette, IN, November 5-7.
1. 2004. Bhati, M.S., Chivoiu, B., Crick, J., **Kirilenko**, A., Ross-Davis, A., Schaaf, K., Shao, G., Singhania, V., Swihart, R. A Web-based Version of Larson and Larsen: 4S Tool. IFAFS Sustaining Private Forest Consortium Conference, West Lafayette, IN, November 5-7.

Local

30. 2020. Wang*, L., **Kirilenko**, A. Beyond the Star-rating: Analyzing TripAdvisor Reviews of Manuel Antonio National Park. 2020 Graduate student conference. University of Florida. Gainesville, Florida.
29. 2019. Liang*, Y., **Kirilenko**, A., Stepchenkova, S. Using Social Media Travel Photographs to Analyze Tourists' Improper Behaviors. D.K. Stanly Lecture Poster Symposium, 19 March 2019. University of Florida. Gainesville, Florida.
28. 2019. Ma*, S., and **Kirilenko**, A. Spatial Movement and Travel Network in Astro-Tourism: Evidence from Social Media during 2017 Eclipse. UF Data Science and Informatics Symposium, April 10, 2019. Gainesville, FL, USA.
27. 2019. Ma*, S., and **Kirilenko**, A. Spatial Movement and Travel Network in Astro-Tourism: Evidence from Social Media during 2017 Eclipse. 2019 D.K. Stanly Lecture Poster Symposium, March 19, 2019. Gainesville, FL, USA.
26. 2018. Ma*, S., Park*, J., and **Kirilenko**, A. Automated Identification and Spatial Distribution of Tourist Activities from Online Photographs. 13th Annual Conference of the Social Science of UF, April 17, 2018. Gainesville, FL, USA
25. 2017. Ma*, S., and **Kirilenko**, A. Climate Change and Tourism Discourse in English Language Newspaper Publications. 2nd Annual Graduate Student Appreciation Week of UF, April 6-9, 2017. Gainesville, FL, USA
24. 2017. Gulbin*, S., **Kirilenko**, A. Accounting for wetlands loss in a changing climate in the estimation of long-term flood risks of Devils Lake in North Dakota. ESSP lunch seminar, April 4, 2017.
23. 2016. Dillon*, T., **Kirilenko**, A., Simulating Future Yields of Canola (*Brassica rapa*) and Durum Wheat (*Triticum durum*) in North Dakota under Future Climate Scenarios. UND Graduate School Scholarly Forum. Grand Forks, ND, March 1, 2016.
22. 2016. Gulbin*, S., **Kirilenko**, A., Zhang, X, Accounting for Wetlands Loss in the Estimation of Long-Term Flood Risks of Devils Lake in North Dakota. UND Graduate School Scholarly Forum. Grand Forks, ND, March 1, 2016.
21. 2015. Gulbin*, S., **Kirilenko**, A., Zypchin, K., Twitter communications during the 2012 Alberta flood. UND Graduate School Scholarly Forum. Grand Forks, ND, 2015.
20. 2014. Molodtsova*, T., **Kirilenko**, A., Stepchenkova, S. Utilizing the social media data to validate "climate change" indices. UND Graduate School Scholarly Forum. Grand Forks, ND, March 12, 2014.
19. 2014. Molodtsov*, S., **Kirilenko**, A., Olsen, D. Climate Change detection using GPS RO and CMIP5 data. UND Graduate School Scholarly Forum. Grand Forks, ND, March 12, 2014.
18. 2014. Kharel*, G., **Kirilenko**, A. Devils Lake Water Levels Under Changing Climate for Different Outlet Alternatives. UND Graduate Scholarly Forum. Grand Forks, ND, March 11, 2014.
17. 2014. Kharel*, G., **Kirilenko**, A. Devils Lake Water Levels Under Changing Climate for Different Outlet Alternatives. ND EPSCoR/IDeA 2014 State Conference, Grand Forks, ND, April 29, 2014
16. 2012. Molodtsova*, T., **Kirilenko**, A., Stepchenkova, S. Climate change discourse: Comparisons of topics and attitudes in conservative and liberal U.S. press. UND Graduate School Scholarly Forum. Grand Forks, ND, February 28, 2012.
15. 2012. Kharel*, G., **Kirilenko**, A. Zhang, X. Modeling the Devils Lake Basin using the Soil and Water Assessment Tool (SWAT). UND Graduate School Scholarly Forum. Grand Forks, ND, February 28, 2012.

14. 2012. Lemons*, R., Hewitt*, A., Kharel*, G., New*, C., **Kirilenko**, A., Zhang, X. Evaluation of Satellite-Derived Agro-Climate Variables in the Northern Great Plains of the United States. UND Graduate School Scholarly Forum. Grand Forks, ND, February 28, 2012.
13. 2012. Molodtsov*, S., **Kirilenko**, A., Analysis and comparison of COSMIC and AIRS humidity level 2 datasets. UND Graduate School Scholarly Forum. Grand Forks, ND, February 28, 2012.
12. 2008. Nepal*, S., **Kirilenko**, A. Climate change in the Northern Great Planes. North Dakota State University. September 12-13, 2008.
11. 2008. **Kirilenko**, A.P., Hanley, R.S. An ecological niche model based on ensembles of artificial neural networks. University of North Dakota Scholarly Forum, Grand Forks ND, February 11-12, 2008.
10. 2008. Hanley, R.S., **Kirilenko**, A.P. Ecological fingerprinting to estimate phyoclimatic patterns within a group of South American beetles. University of North Dakota Scholarly Forum, Grand Forks ND, February 11-12, 2008.
9. 2008. Soizik, L., Hanley, R.S., **Kirilenko**, A.P. Predictive distributional modeling of three cattails species across North American Northern Great Plains. University of North Dakota Scholarly Forum, Grand Forks ND, February 11-12, 2008.
8. 2005. Chivoiu, B., **Kirilenko**, A., Shao, G. Climate change impact on forests: primary effects and interactions. Department of Forestry and Natural Resources, 2005 Graduate Research Symposium, Purdue University, West Lafayette, IN, April 11.
7. 2005. Chivoiu, B., Crick, J., Ross-Davis, A., Schaaf, K., Singhania, V., **Kirilenko**, A., Shao, G., Swihart, R. 4S Tool: An Internet-based decision support tool for non-industrial private forest landowners or How to get your grandma hooked on forest management. Department of Forestry and Natural Resources, 2005 Graduate Research Symposium, Purdue University, West Lafayette, IN, April 11.
6. 2005. Chivoiu, B., Crick, J., Ross-Davis, A., Schaaf, K., Singhania, V., **Kirilenko**, A., Shao, G., Swihart, R. 4S Tool: An Internet-based Decision Support System for Non-industrial Private Forest Landowners. Sigma Xi Graduate Student Research competition and the poster presentation, February 17.
5. 2004. **Kirilenko**, A. Integrated Modeling with LUCI. GISCIENCE-L GIScience Coordination meeting, Indiana University – Purdue University, Indianapolis, IN. May 14
4. 2004. Bhati, M.S., Singhania, V., **Kirilenko**, A., Chivoiu, B. 4S Tool: An Internet based Forest Stand Software Support System. 2004 Graduate Research Symposium, Department of Forestry and Natural Resources, Purdue University, West Lafayette, IN, April 16.
3. 2004. Shao, G., **Kirilenko**, A., Chivoiu, B. Projecting Future Forests under Global Climate Change: An Overview. PCCRC Workshop, Climate Change Research and Education at Purdue. Purdue University, West Lafayette, IN, November 19.
2. 2004. **Kirilenko**, A., Chivoiu, B., Shao, G. Climate change impact on forests: primary effects and interactions. PCCRC Workshop, Climate Change Research and Education at Purdue. Purdue University, West Lafayette, IN, November 19.
1. 2004. Bhati, M.S., Singhania, V., **Kirilenko**, A., Chivoiu, B. 4S Tool: An Internet based Forest Stand Software Support System. 5th Annual Environmental Research Symposium, Environmental Science & Engineering Institute (ESEI), Purdue University, West Lafayette, IN, April 8-9.

7. SERVICE

Department

Eric Friedhaim Tourism Institute research seminar series, Founding chair	2017 – 2020
Graduate committee	2017 – 2018
International Education Committee, member	2015 – 2016
Faculty search committee, member	2015 – 2016
Brownbag Friday Discussion seminars, Chair	2007 – 2015
Evaluation, Tenure & Promotion Committee, member	2013 – 2014

Faculty Evaluations, Promotion and Tenure Departmental Guidelines development, Chair	2013 – 2014
Student Evaluation, Chair	2007 – 2013

College

Stanley Lecture & Research Symposia committee, member	2019 – 2022
Research committee, member	2017 – 2020
Petitions committee, chair	2017 – 2019
Curriculum committee, member	2013 – 2015

University

Presidential committee on Promotions, member	2012 – 2013
Outstanding Faculty Awards Committee, member	2010 – 2012

Professional Associations

Coordinating Leading Author: Global Environment Outlook (GEO), United Nations Environment Programme

Leading Author: Intergovernmental Panel on Climate Change Fourth Assessment Report (IPCC AR4)

Editorial board: Journal of Travel Research; Carbon Balance and Management

Reviewer, journals: Global Environmental Change; Environment, Development and Sustainability; Ecological Informatics; Environmental Modelling and Software; International Journal of Climate Change Strategies and Management; Environment, Development and Sustainability; Journal of Applied Meteorology; Climatic Change; Journal of Plant Pathology; Tourism Management; Carbon Balance and Management; Mitigation and Adaptation Strategies for Global Change; Environmental Science and Policy; International Journal of Climate; Ecological Informatics

Reviewer, books: IPCC Climate Change 2007 WG2 Chapter 12 SOD; IPCC Climate Change 2007 WG3 SOD; Hare, W.L., Battaglini, A., Jaeger, C., Cramer, W. (eds.) Climate impact hotspots – Key vulnerable regions and climate change; IPCC Special Report on Safeguarding the Ozone Layer and the Global Climate System: Issues related to Hydrofluorocarbons and Perfluorocarbons; IPCC Climate Change 2007 WG3 Chapter 9 ZOD; IPCC Climate Change 2007 WG2 Chapter 12 FOD

Reviewer, conference submissions: IASTED International Conference on Modelling and Simulation (multiple years); International Congress on Environmental Modelling and Software (iEMSS)

Reviewer, grants and awards: NSF Population and Community Ecology Program; NASA GCCE; UK Natural Environment Research Council; World Bank; IIASA Peccei and Mikhalevich Award; Fulbright Senior Scholars Program in Russian Federation

Conference Organizing:

Session organizer, Tourism analytics: social media, spatially distributed data and data mining in tourism research. AAG, April 13, 2019.

Session organizer, Tourism analytics: social media, spatially distributed data and data mining in tourism research. AAG, April 10, 2018.

Session moderator. UND Scholarly Forum; Earth, Space & Flight Session. March 5, 2013

Session organizer, International Environmental Modelling and Software Conference (iEMSS), 2010

International Program Committee for IASTED International Conference on Modelling and Simulation EMS 2010

International Program Committee for the Fifth IASTED International Conference on Environmental Modelling and Simulation EMS 2009

International Program Committee for the Fourth IASTED International Conference on Environmental Modelling and Simulation EMS 2008

International Program Committee for the Third IASTED International Conference on Environmental Modelling and Simulation EMS 2007, August 20 – 22, 2007, Honolulu HI, USA

Judge, Best Paper Awards, Forestry and Natural Resources Graduate Student Conference, Purdue University (2005, 2006)
Session chair, the Second IASTED International Conference on Environmental Modelling and Simulation EMS-2004, St. Thomas VI

Community at Large

Committees:

Scientific advisory group for North Dakota Climate Solutions Partnership (2009 – 2014)

Participated in preparing the testimony before the ND House Natural Resources Committee in opposition to HCR 3038 (oppose CO2 standards) and HCR 3030 (oppose climate legislation). HCR 3030 amended; HCR 3038 withdrawn (2009)

Land Use subcommittee Chair. Green Grand Forks Resource Committee (developing suggestions for the city of Grand Forks for tangible actions on a wide range of programs and policies involving the community at large, city government and community-wide entities, 2007–2010)

Panel discussions and presentations, invited:

Public symposium "Climate Change—A 21st Century Challenge to American National Security", hosted by the UND History Department, and Phi Alpha Theta. Panel discussion. Grand Forks, ND. September 24, 2009

Climate Change and Why We Need to Address it Now. Town Hall Forum organized by Alliance for Climate Protection/ Repower North Dakota, Grand Forks, ND. September 14, 2009

Panel discussion of the movie The Inconvenient Truth. Northland Community and Technical College, Thief River Falls, MN. April 19, 2007

Panel discussion of the movie The Inconvenient Truth. Department of Geology and Geological Engineering of the University of North Dakota and the Dakota Science Center of Grand Forks, Empire Arts Center, Grand Forks, ND. April 14, 2007

Climate Change Science: What We Know Now. University of North Dakota, Grand Forks, ND. March 6, 2007

Global Warming. Purdue University School of Agriculture. Presentation to high school students, participating at the Purdue Agriculture Exploration Summer Camp. July 13, 2004

Interviews, TV appearances, and newspaper coverage:

2010. March. "Errors in Climategate". Polit.ru, scientific section (invited discussion)

2009. December. Interview, scientific.ru (leading scientific newspaper of Russia)

2009. Press-conference, Scientific advisory group for North Dakota Climate Solutions Partnership. Published in Fargo Forum, Minot Daily News, Jamestown Sun Dec. 9

2008. Interview, Grand Forks Herald, June

2007. Interview, Grand Forks Herald, December

2007. Interview, Grand Forks Cable TV Channel 3, cir. October 17

2007. Nobel Peace Prize connects with UND climate scientist. UND University letter, October 17

2007. Y. Lee. A piece of the prize. UND professor part of the panel that wins Nobel Prize. Grand Forks Herald, October 13, issue 106 (numerous reprints)

2007. UND climate change expert to comment on President Bush's global carbon emission reduction plan. UND News, June 1. <http://www2.und.edu/our/news/story.php?id=2086>

2007. K. Johnson. Scientist hopes climate study "makes a difference." Grand Forks Herald, March 6, issue 219 (numerous reprints in local newspapers)

2007. Officials say climate change will hurt Upper Midwest. Associated Press, April 8 (numerous reprints in local newspapers)

2007. Climate change would affect Midwest. Rapid City Journal, April 10

2007. UND researcher plays role in report on climate change. Associated Press, February 3

2007. A part of history. UND professor has hand in international report. Grand Forks Herald, February 3, issue 219

2007. Interview, Grand Forks Cable TV Channel 3, April 10

2004. Russian national daily newspaper Izvestia (News) published an article on my research in climate change impact on Russian agriculture in their Science section. Natalia Reznik, Global warming in Russia – frequent draughts and more potatoes. Izvestia, September 11, issue 168(26725)

7. ADDITIONAL PROFESSIONAL ACTIVITY

Authored software

NeuroNiche, software for projecting ecological niche modifications with climate change using Artificial Neural Networks.

Species Fingerprint, software for ecological niche visualization. <http://kirilenko.org/fingerprint>

WORDER, software for analysis of digital textual data. <http://kirilenko.org/worder>

4Stool, An Internet-based decision support tool for non-industrial private forest landowners. Purdue University

Professional education

MATLAB. Mathworks Corp.	2014
Grades and Grading in an Age of Assessment. Workshop. AAC&U	2009
Issues in Higher Education Leadership Seminar. UND President's program	2008 – 2009
College Teaching Workshop: Basics of Teaching. Purdue University	2006
Macromedia Dreamweaver. Purdue University	2006
Bayesian Statistics. Purdue University	2005
Microsoft Access. Purdue University	2005
ESRI ARC GIS. ESRI	2004 – 2007
Certificate of the Microsoft Certified Systems Engineer. Microsoft	2000
FORTRAN 90 and Parallel Computing. EPA National Environmental Supercomputing Center	1997
ERDAS IMAGINE. US EPA	1996

Professional societies

American Association of Geographers (AAG)	2014 – 2020
Travel and Tourism Research Association (TTRA, institutional membership)	2019 – 2020
American Geophysical Union (AGU)	2007 – 2015
International Environmental Modelling & Software Society (iEMSs)	2007 – 2014
American Meteorological Society (AMS)	2009 – 2010
International Communication Association (ICA)	2013 – 2014

8. HONORS/AWARDS

Expedia Inc. – IFTTT Best Insights prize (with David Ma, Lijuan Su), Data science competition (Surrey, UK)	2020
HHP International Educator of the Year	2017
UND President's program “Issues in Higher Education Leadership Seminar”	2008 – 9
Nobel Peace Prize (shared between Al Gore and the IPCC), IPCC	2007
Certificate of Appreciation, School of Agriculture, Purdue University	2004
EFI Research Scholarship, European Forest Institute, EU	2000

Research Associateship Awards, U.S. National Research Council

1995; renewed 1996, 1997, and 1998