

YELENA OGNEVA-HIMMELBERGER

Department of International Development, Community, and Environment
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EDUCATION

Institution	Dates attended	Degree and Major	Date Conferred
Clark University, Worcester MA	1990-1998	Ph.D., Geography	1998
Moscow State University, Russia	1982-1987	M.A., Geography	1987

TEACHING EXPERIENCE

Institution	Dates	Rank	Department
Clark University	2006-present	Assistant Professor	IDCE
Tufts University	2004-2006	Lecturer	Urban & Env. Planning
Mount Holyoke College	2002-2004	Visiting Assistant Professor	Earth and Environment
Worcester State College	2003	Adjunct Professor	Geography
National University of Costa Rica	July 1996	Instructor	Geography
Clark University	1994-1996	Instructor	Foreign Languages
Clark University	1991-1992	Teaching Assistant	Geography

COURSES TAUGHT

- Intro to Geographic Information Systems
- Advanced Geographic Information Systems
- GIS in Human and Animal Health
- Remote Sensing
- Mapping and Spatial Analysis
- State of the Environment in Russia
- Digital Image Processing

RESEARCH EXPERIENCE

Institution	Dates	Position
Clark University	2006-present	Assistant Professor
Tufts University	2004-2006	GIS Research Specialist, Academic Technology
GIS consultant (self-employed)	2001-2002	
Geography Department, Clark University	1998-2000	Postdoctoral Research Associate
IDRISI Project, Clark University	1992-1997	Research Assistant

SCHOLARSHIPS AND AWARDS

Institution	Type of award	Dates
TIE (Tufts Institute of the	Environmental Education Grant to design a new course	2006

Environment), Tufts University	“GIS Applications to Human and Animal Health”	
National Center for Geographic Information and Analysis (NCGIA)	Full scholarship for the International Young Scholars Summer Institute in Geographic Information, Berlin, Germany	1996
U.S. Man and Biosphere Program, Tropical Directorate	Research grant for dissertation field work in Quintana Roo, Mexico	1994-1995
Moscow State University	Full scholarship for Master's thesis field work and research at Havana University, Cuba	1986-1987

PUBLICATIONS

Peer-reviewed publications

McEntee, J. and Ogneva-Himmelberger, Y. 2008. Diesel particulate matter, lung cancer, and asthma incidences along major traffic corridors in MA, USA: A GIS analysis *Health and Place* 14:815-826.

Agyeman, J and Ogneva-Himmelberger, Y (eds.) (in press) *Environmental Justice in the Former Soviet Union (FSU)*. MIT Press, Cambridge, MA.

Rakshit, R and Ogneva-Himmelberger, Y. 2008 (in press) ‘Application of virtual globes in education’ *Geography Compass*.

Ogneva-Himmelberger, Y and Cooperman, B. 2008 ‘Spatio-temporal analysis of noise pollution near Boston Logan airport: Who carries the cost?’ (submitted to the *Urban Studies journal*)

Jocelyn Muller, Yelena Ogneva-Himmelberger, Stephen Lloyd, and J. Michael Reed (in preparation). *Predicting historic taro lo’I distribution in Hawaii*.

Chowdhury, R.R., L. Schneider, Y. Ogneva-Himmelberger, P. Macario Mendoza, and S. Cortina Villar, 2004. Land Cover and Land Use: Classification and Change Analysis. In B. L. Turner II, Jacqueline Geoghegan, David R. Foster (Editors), *Integrated Land-Change Science and Tropical Deforestation in the Southern Yucatan - Final Frontiers*, Oxford University Press, pp. 105-141.

Geoghegan, G., S.C. Villar, P. Klepeis, P.M. Mendoza, Y. Ogneva-Himmelberger, R.R. Chowdhury, B.L. Turner, C. Vance, 2001. Modeling tropical deforestation in the southern Yucatan peninsular region: comparing survey and satellite data. *Agriculture, Ecosystems and Environment*, 85 (1-3): 25-46.

Cortina Villar, S., P. Macario Mendoza, and Y. Ogneva-Himmelberger, 1999. Cambios en el uso del suelo y deforestación en el sur de los estados de Campeche y Quintana Roo, México. *Investigaciones Geográficas*, 38 : 41-56 (in Spanish)

Ogneva-Himmelberger, Y., 1998. Simulation of land-cover changes: Integrating GIS, socio-economic and ecological processes, and Markov chain models. In H. Onsrud and M. Craglia (eds.) *Geographic Information Research: Transatlantic perspectives*. Taylor and Francis Ltd., pp. 263-274.

Himmelberger, J. J., M. L. Baughman, and Y. A. Ogneva-Himmelberger, 1995. Tourism Impacts of the Three Mile Island and other adverse events: Implications for Lincoln County, Nevada and other counties

bisected by radioactive wastes intended for Yucca Mountain. *Journal of Environmental Management*, 19 (6): 915-922.

Other publications

Yelena Ogneva-Himmelberger and David Kahle, 2006. GIS teaching and research support model at Tufts University. *Transformations: Liberal Arts in the Digital Age*, issue 3, volume 2, pp.13-16. (<http://www.nitle.org/index.php/nitle/transformations>)

Ogneva-Himmelberger, Y., 1998. *Exploring empirical diagnostic modeling of land use/cover change: an example from Southern Yucatan peninsular region*. Dissertation manuscript. Clark University: Worcester, MA.

Geoghegan, J., L. Pritchard, Jr., Y. Ogneva-Himmelberger, R. R. Chowdhury, S. Sanderson, and B. L. Turner II. 1998. "Socializing the Pixel" and "Pixelizing the Social" in Land-Use/Cover Change. In *Peoples and Pixel*. Committee on the Human Dimensions of Global Environmental Change, National Research Council. Washington, D.C., pp. 51-69.

Himmelberger, J. J., Y. A. Ogneva-Himmelberger, and M. L. Baughman. 1993. Tourism Impacts of the Three Mile Island Accident. *Proceedings of the International High-Level Radioactive Waste Management Conference*, American Nuclear Society, La Grange, IL, pp. 1904-1910.

Ogneva, Y. 1990. Chinampas of Mexico: Useful experiences of the past. *Latin America* 8: 116-120 (in Russian).

Ogneva, Y. 1990. Land-use systems of the Yucatan Peninsula during the Pre-Columbian period. *Moscow University Vestnik Serie Geography* Issue #6 (in Russian).

PRESENTATIONS AT PROFESSIONAL MEETINGS

Yelena Ogneva-Himmelberger, Amar Azucena Cid, Sheryl-Ann Simpson, Rebecca Dezan. *Pizza joints, health clubs, bus routes, and GIS: Measuring accessibility to health-related community resources and its relationship with urban socio-demographic patterns*. AAG meeting, Boston, April 2008.

Pontius Jr, Robert Gilmore and Yelena Ogneva-Himmelberger. 2007. *Lessons from the first decade of running a Master of Arts program in Geographic Information Science in the United States*. Conference proceedings of the International conference "Electronic Culture and New Humanitarian Technologies of the XXI century". Astrakhan, Russia, pp. 36-37.

Ogneva-Himmelberger, Y. 2007. *The value of community-based projects in learning GIS: students addressing health and food security issues in Worcester, Massachusetts, USA*. Presented at the "Geography in the Americas: Collaboration on Research and Education" international conference, La Serena, Chile, May 21-26, 2007.

Ogneva-Himmelberger, Y. 2007. *Urban sprawl in Moscow, Russia: linking pattern to process*. AAG Annual meeting, San Francisco, California, April 17-21, 2007.

Ogneva-Himmelberger, Y. 2006. *GIS-Supported Undergraduate Research: Experiences from Tufts University*. 11th National Conference of the Council on Undergraduate Research (CUR) , DePauw University, Greencastle, Indiana, June 24-27, 2006.

Muller, J., J. M. Reed, Y. Ogneva-Himmelberger, S. Lloyd, and M. D. Silbernagle. 2005. *The potential for historic taro lo'i to support viable populations of endangered Hawaiian waterbirds*. Society for Economic Botany Annual Meeting, Fort Worth, Texas 5 – 9 June 2005.

Ogneva-Himmelberger, Y. 2005. *Green belt versus red bricks: urban sprawl in post-socialist Moscow*. GISPLANET 2005 Conference, Estoril, Portugal, May 31-June 2, 2005.

Geoghegan, J. , P. Klepeis, Y. Ogneva-Himmelberger, R. Roy Chowdhury, B. L. Turner II, C. Vance, 1999. *Modeling Tropical Deforestation: Comparing Survey and Satellite Data*, Presentation at "Current Progress in Quantifying Spatially Explicit Causes and Effects of Land-Use/Cover Change: Examples from Different Parts of the World", Wageningen, The Netherlands.

Roy Chowdhury, R. and Y Ogneva-Himmelberger, 1998. *A spatially explicit model of land-use/cover change in the SYPR, Mexico*. Presented at the Annual Meeting of the Association of American Geographers, Boston, Massachusetts.

Roy Chowdhury, R. and Y. Ogneva-Himmelberger, 1998. *Spatially explicit modeling of land-use/cover change in the southern Yucatán peninsular region, México*. Presented at The Earth's Changing Land. GCTE LUCC Open Science Conference in Global Change. Barcelona, Spain.

Ogneva-Himmelberger, Y., B. L. Turner II, and J. Geoghegan, 1997. *A Spatiality Explicit Markov Model of Land Cover Change in Southern Mexico*. Paper presented to the Association of Environmental and Resource Economists, Toronto, Canada, July 1997.

Ogneva-Himmelberger, Y., , B.L. Turner II, 1996. *Markov modeling experiments of deforestation in Yucatan*. Paper presented at the Joint BACH-LUCC Workshop, Quioto, Japan, November 5-7, 1996.

Ogneva-Himmelberger, Y., 1996. *Markovian approaches to deforestation in Yucatan: an exploration*. Paper presented at the NESTVAL Conference, Worcester, MA, November 1-3, 1996.

Ogneva-Himmelberger, Y., 1996. *Markov-chain analysis and land-use change modeling*. Presented at the GIS'96 Forum, Moscow, Russia, June 1996 (in Russian).

Ogneva-Himmelberger, Y., 1996. *Simulation of land-cover changes: integrating GIS, socio-economic and ecological processes, and Markov chain models*. Presented at the NSF-NCGIA 1996 Summer Institute in Geographic Information, Berlin, July 24- August 1, 1996.

Ogneva-Himmelberger, Y., 1995. *Cambios en el uso del suelo en la Península de Yucatán: Analisis de los imagenes de satélite* [Land-use change in the Yucatan peninsula: satellite image analysis]. University of Quintana Roo, Chetumal, Mexico, March 1995 (in Spanish).

Ogneva-Himmelberger, Y., 1995. *GIS and decision making: new developments at the Idrisi Project*. Presented at the GIS'95 Forum, Moscow, Russia, June 1995 (in Russian)

Ogneva-Himmelberger, Y., 1993. *SIG y la toma de decisiones* [GIS and decision making]. Presented at the Congreso Internacional sobre aplicaciones de cartografía digital, percepción remota y sistemas de información geográfica, INEGI, Aguascalientes, México, October 1993 (in Spanish).

INVITED LECTURES AND PROFESSIONAL WORKSHOPS

Geographic Information Systems and the National Children's Study – presentation to the Pediatric Grand Rounds at UMASS Medical School, June 20, 2008.

Community health and equity issues: GIS as a research tool – presentation to the IDCE faculty, Clark University, February 2008.

Applications of GIS to health and social issues – presentation in GISDE Seminar class, Clark University, February 2008.

GIS: a tool for measuring and monitoring social, environmental and economic change – presentation in Transportation Geography class, Clark University, October 2007.

Introduction to vector GIS and ArcGIS software – guest lecture for the “Introduction to GIS applications in emergency management” class, Anna Maria College, Paxton, MA, June 2, 2007.

Using GIS to address health and food security issues in Worcester, Massachusetts – presentation at Community Research and Service Learning Using GeoSpatial Tools workshop, Worcester State College, June 8, 2007.

Introduction to vector GIS and ArcGIS software – lecture for the Introduction to GIS applications in emergency management class, Anna Maria College, Paxton, MA, June 2, 2007.

GIS: a tool for measuring and monitoring social, environmental and economic change – lecture for the joint GSOM-IDCE course “People AND/OR Profits? Issues at the Nexus of Development and Management”, Clark University, Worcester, MA, April 9, 2007.

Noise pollution from Logan airport: is there an environmental injustice? – lecture at the Interdisciplinary and Global Studies Division of Worcester Polytechnic Institute, March 22, 2007.

Community-based GIS applications in Worcester – lecture for the Professional Seminar at the International Development, Community and Environment Department, Clark University, Worcester, MA, March 20, 2007.

GIS and anthropology applications – a lecture for the Cultural Anthropology class at the International Development, Community and Environment Department, Clark University, Worcester, MA, March 5, 2007.

GIS for Community Health and Development – intensive GIS training course developed for and delivered at the Christian Medical College, Vellore, Tamil Nadu, India; January 8-10, 2007.

GIS and planning - lecture for the Community-Development Decision Making and Negotiation class at the International Development, Community and Environment Department, Clark University, Worcester, MA, December 6, 2006.

NSF 2006 Summer Workshop for Early Career Geography Faculty. UC Boulder, Geography Faculty Development Alliance. June 17-24, 2006.

Health applications of GIS: data visualization and spatial pattern analysis - Hands-on day-long GIS workshop at UMASS Medical School, Worcester, MA, May 23, 2006.

Environment, Development, and GIS: some examples – lecture for the Professional Seminar at the International Development, Community and Environment Department, Clark University, Worcester, MA,

April 11, 2006.

Around the World with Raster and Vector GIS – lecture at Clark University, Worcester, MA, November 29, 2005.

Recent land use change history in the Southern Mexico as told by the farmers and observed from satellite imagery – lecture at Worcester Polytechnic Institute, Worcester, MA, February 19, 2004.

Analytical Modeling in GIS: Environmental Applications – lecture at Tufts University, Medford, MA, February 11, 2004.

PROFESSIONAL SERVICE

Reviewer for the US Civilian Research & Development Foundation (1530 Wilson Blvd. 3rd Floor
Arlington, VA 22209)

LANGUAGES

Native: Russian.

Fluent: English and Spanish.