

**YELENA OGNEVA-HIMMELBERGER, Ph.D.**

Department of International Development, Community, and Environment  
Clark University, 950 Main St., Worcester, MA 01610  
yogneva@clarku.edu; 508.421.3805

**EDUCATION**

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**Ph.D. in Geography (1998)**

**Clark University, Worcester, MA**

Dissertation title: *Exploring empirical diagnostic modeling of land-use/cover change: an example from Southern Yucatan Peninsula region*

**M.A. in Geography with Distinction (1987)**

**Moscow State University, Moscow, Russia**

Thesis title: *Karst landscapes in Cuba; their use and protection*

**PROFESSIONAL EXPERIENCE**

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**Associate Professor, Department of International Development, Community and Environment, Clark University (2015–present)**

**Adjunct Associate Professor, Graduate School of Geography, Clark University (2015–present)**

**Research Associate Professor, George Perkins Marsh Institute, Clark University (2015–present)**

**Assistant Professor, Department of International Development, Community and Environment, Clark University (2006–2014)**

**Adjunct Assistant Professor, Graduate School of Geography, Clark University (2013–2014)**

**Research Assistant Professor, George Perkins Marsh Institute, Clark University (2007–2014)**

Courses taught: *Introduction to GIS, Advanced Vector GIS, Environmental Applications of GIS, Social Applications of GIS, GIS for Community Development and Planning, GIS for International Development, Spatial analysis for health, GISDE Professional Seminar, and Introduction to Remote Sensing*

**GIS Research Specialist and Lecturer, Department of Urban and Environmental Policy and Planning and Department of Academic Technology, Tufts University (2004–2006)**

Courses taught: *Introduction to GIS, Advanced GIS, GIS Applications to Human and Animal Health*

**Adjunct Assistant Professor, Department of Geography, Worcester State College (2003)**

Course taught: *Environmental Degradation in the Former Soviet Union*

**Visiting Assistant Professor, Department of Earth and Environment, Mount Holyoke College (2002–2004)**

Courses taught: *Introduction to Remote Sensing, Introduction to GIS, and Environmental Degradation in the Former Soviet Union*

**Postdoctoral Research Associate, Geography Department, Clark University (1998–2000)**

**Research Assistant, IDRISI Project, Clark University (1992-1997)**

**PEER REVIEWED JOURNAL ARTICLES** (\*denotes graduate student author)

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**Ogneva-Himmelberger, Y.**; Ross, L.; Caywood, T.; Khananayev, M.; Starr, C. Analyzing the Relationship between Perception of Safety and Reported Crime in an Urban Neighborhood Using GIS and Sketch Maps. *ISPRS Int. J. Geo-Inf.* **2019**, *8*, 531.

<https://doi.org/10.3390/ijgi8120531>

Laurie Ross, **Yelena Ogneva-Himmelberger** and Casey Starr, 2019. The Use of Geographic Information Systems for Real-Time Monitoring of Comprehensive Community Initiatives. *Justice Research and Policy*. <https://doi.org/10.1177/1525107119843259>

B. Claus Henn, **Y. Ogneva-Himmelberger**, A. Denehy , M. Randall , N.Cordon , B. Basu , B. Caccavale , S. Covino , R. Hanumantha , K. Longo , A. Maiorano , S. Pillsbury , G. Rigutto , K. Shields , M. Sarkis and T. J. Downs, 2017. Integrated Assessment of Shallow-Aquifer Vulnerability to Multiple Contaminants and Drinking-Water Exposure Pathways in Holliston, Massachusetts. *Water*, *10* (1): 23; [doi:10.3390/w10010023](https://doi.org/10.3390/w10010023)

J. Rogan, T.M. Wright\*, J. Cardille, H. Pearsall, **Y. Ogneva-Himmelberger**, R. Riemann, K. Riitters & K. Partington, 2016. Forest fragmentation in Massachusetts, USA: a town-level assessment using Morphological Spatial Pattern Analysis and Affinity Propagation, *GIScience & Remote Sensing*, *53*(4): 506-519. [DOI: 10.1080/15481603.2016.1141448](https://doi.org/10.1080/15481603.2016.1141448)

**Ogneva-Himmelberger, Y.**, Dahlberg, T\*, Kelly, K., and Moore Simas, T., 2015. Using Geographic Information Science to Explore Associations between Air Pollution, Environmental Amenities, and Preterm Births. *AIMS Public Health*, *2*(3): 469-486. [doi: 10.3934/publichealth.2015.3.469](https://doi.org/10.3934/publichealth.2015.3.469)

**Ogneva-Himmelberger, Y.** and Huang, L\*. 2015. Spatial distribution of unconventional gas wells and human populations in the Marcellus Shale in the United States: Vulnerability analysis *Applied Geography*, *60*: 165-174. [doi:10.1016/j.apgeog.2015.03.011](https://doi.org/10.1016/j.apgeog.2015.03.011)

**Ogneva-Himmelberger, Y.**, L. Huang\*, H. Xin\*. 2015. CALPUFF and CAFOs: Air Pollution Modeling and Environmental Justice Analysis in the North Carolina Hog Industry. *ISPRS International Journal of Geo-Information*, *4*(1), 150-171; doi:[10.3390/ijgi4010150](https://doi.org/10.3390/ijgi4010150)

**Ogneva-Himmelberger, Y.**, Meng, F.\* 2014. Geospatial analysis of neighborhood characteristics and access to fresh produce: The role of farmers' markets and roadside farm stands. *International Journal of Applied Geospatial Research*, *5* (3):68-81. [DOI: 10.4018/ijagr.2014070105](https://doi.org/10.4018/ijagr.2014070105)

Shatz,A.\*, Rogan, J., Sangermano, F., **Ogneva-Himmelberger, Y.** , and Chen, H. 2013. Characterizing the potential distribution of the invasive Asian longhorned beetle (*Anoplophora*

glabripennis) in Worcester County, Massachusetts. *Applied Geography*, 45: 259-268.  
[DOI: 10.1016/j.apgeog.2013.10.002](https://doi.org/10.1016/j.apgeog.2013.10.002)

Lenhardt, J.\* and **Ogneva-Himmelberger, Y.** 2013. Environmental Injustice in the Spatial Distribution of Concentrated Animal Feeding Operations in Ohio. *Environmental Justice*, 6 (4)  
[DOI: 10.1089/env.2013.0023](https://doi.org/10.1089/env.2013.0023)

Harun, R.\* and **Ogneva-Himmelberger, Y.** 2013. Distribution of Industrial Farms in the US and Socio-economic, Health and Environmental Characteristics of Counties. *Geography Journal* Volume 2013, Article ID 385893, 12 pages <http://dx.doi.org/10.1155/2013/385893>

Schwert, B.\* , Rogan, J., Giner, N.\* , **Ogneva-Himmelberger, Y.**, Blanchard, S.\* , Woodcock, C. 2013. A comparison of support vector machines and manual change detection for land-cover map updating in Massachusetts, USA. *Remote Sensing Letters*, Vol. 4 (9): 882-890.  
<http://dx.doi.org/10.1080/2150704X.2013.809497>

Taus, A.\* , **Ogneva-Himmelberger, Y.**, Rogan, J. 2013. Conversion to Organic Farming in the Continental US: A Geographically Weighted Regression Analysis. *Professional Geographer* 65 (2), 187-204. DOI: 10.1080/00330124.2011.639634

**Ogneva-Himmelberger, Y.**, R. Rakshit\* and H. Pearsall \*, 2013. Examining the impact of environmental factors on quality of life across Massachusetts. *Professional Geographer* 65(1): 87-102. DOI: 10.1080/00330124.2011.639631

Hattis, D.\* , **Ogneva-Himmelberger, Y.** Ratick, S. 2012. The Spatial Variability of Heat Related Mortality in Massachusetts. *Applied Geography* 33: 45- 52.  
doi:10.1016/j.apgeog.2011.07.008

Carnes, A.\* , **Ogneva-Himmelberger, Y.** 2011. Temporal Variations in the Distribution of West Nile Virus within the United States; 2000-2008. *Applied Spatial Analysis and Policy*. 5: 211-229. DOI 10.1007/s12061-011-9067-7

Downs T.J., **Ogneva-Himmelberger Y.**, Aupont O., Wang Y.\* , Raj A.\* , Zimmerman P.\* , et al. 2010. Vulnerability-based Spatial Sampling Stratification for the National Children's Study- Worcester County, Massachusetts: Capturing Environmental and Socio-Demographic Variability. *Environmental Health Perspectives* 118 (9): 1318-1325. doi:10.1289/ehp.0901315

**Ogneva-Himmelberger, Y.**, Ross, L., Burdick, W. \* and Simpson, S\*. 2010 Using Geographic Information Systems to Compare the Concentration of Stores Selling Tobacco and Alcohol: Youth Making an Argument for Increased Regulation of the Tobacco Permitting Process in Worcester, Massachusetts. *Tobacco Control* 19:475-480. doi:10.1136/tc.2008.029173

**Ogneva-Himmelberger, Y.** and Cooperman, B.\* 2010. Spatio-temporal analysis of noise pollution near Boston Logan airport: Who carries the cost? *Urban Studies*, 47: 169-182.  
doi:10.1177/0042098009346863

Müller, J., **Ogneva-Himmelberger, Y.**, Lloyd, S.\* and Reed, M. 2010. Predicting pre-historic taro lo'i distribution on Hawaii. *Economic Botany*, 64(1): 22-33.

DOI 10.1007/s12231-010-9113-4

**Ogneva-Himmelberger, Y.**, C. Pearsall\* and R. Rakshit\*, 2009. Concrete evidence & geographically weighted regression: A regional analysis of wealth and the land cover in Massachusetts. *Applied Geography* 29: 478-487. DOI: 10.1016/j.apgeog.2009.03.001

Rakshit, R\* and **Ogneva-Himmelberger, Y.** 2009. Teaching and learning guide for “Application of virtual globes in education” paper. *Geography Compass* 3(4): 1579-1595.

Rakshit, R\* and **Ogneva-Himmelberger, Y.** 2008. Application of virtual globes in education. *Geography Compass*, 2 (6): 1995-2010.

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. DOI: 10.1016/j.healthplace.2008.01.002

**Y. Ogneva-Himmelberger** and D. Kahle, 2006. *GIS teaching and research support model at Tufts University*. Transformations: Liberal Arts in the Digital Age, 3 (2):13-16.

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. DOI: 10.1016/S0167-8809(01)00201-8

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)

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.

**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).

## PEER-REVIWED BOOKS AND BOOK CHAPTERS

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Agyeman, J and **Ogneva-Himmelberger, Y** (editors.) 2009 *Environmental Justice and Sustainability in the Former Soviet Union (FSU)*. MIT Press, Cambridge, MA  
<http://mitpress.mit.edu/catalog/item/default.asp?ttype=2&tid=11804>

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, 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.

**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.

## PEER-REVIWED CONFERENCE PROCEEDINGS

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**Y. Ogneva-Himmelberger**, 2019. *Spatial Analysis of Drug Poisoning Deaths and Access to Substance-use Disorder Treatment in the United States*. 5<sup>th</sup> International Conference on Geographical Information Systems Theory, Applications and Management (GISTAM 2019), pp. 315-321. SCITEPRESS - Science and Technology Publications. ISBN: 978-989-758-371-1

**Y. Ogneva-Himmelberger**, 2018. *Spatio-temporal analysis of adverse birth outcomes using space-time cube*. 26th GIScience Research UK Conference (GISRUK), University of Leicester.

**Ogneva-Himmelberger, Y.** 2013. *Spatial analysis of health data: collaborative partnership between Clark University and medical institutions in Massachusetts*. Conference proceedings of the International Health GIS Conference, St. Petersburg, Russia, May 22-24, 2012, pp. 163-164.

A. Brandão Júnior, **Y. Ogneva-Himmelberger**, C. Moreira de Souza Jr., 2011. *Analyzing temporal and spatial dynamics of deforestation in the Amazon: a case study in the Calha Norte region, State of Pará, Brazil*. Proceedings of the XV Brazilian Remote Sensing Symposium, Curitiba, April 30 – May 5, 2011, pp. 2756-2762. Available at <http://www.dsr.inpe.br/sbsr2011/files/p1396.pdf>

Harun, S.M. and **Ogneva-Himmelberger, Y.** 2010. *Is spatial distribution of industrial farms raising the issue of environmental justice in USA?* Proceedings of International Conference on Environment 2010, Penang, Malaysia.

Pontius, R. and **Ogneva-Himmelberger, Y.** 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.

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.

## CONFERENCE PRESENTATIONS

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**Y. Ogneva-Himmelberger**, 2019. *Spatial Analysis of Drug Poisoning Deaths and Access to Substance-use Disorder Treatment in the United States*. 5<sup>th</sup> International Conference on Geographical Information Systems Theory, Applications and Management. Heraklion, May 1-2, 2019.

**Y. Ogneva-Himmelberger**, 2019. *Sustainable development goals and geospatial education*. Geospatial World Forum. Amsterdam, April 2-4, 2019.

**Y. Ogneva-Himmelberger** and M. Haynes, 2018. *Analyzing spatio-temporal trends in adverse birth outcomes in Massachusetts, USA, 2000-2014*. 12th International Symposium on Geospatial Health. Moscow, Russia, June 4-6, 2018.

**Y. Ogneva-Himmelberger**, 2018. *Spatio-temporal analysis of adverse birth outcomes using space-time cube*. 26th GIScience Research UK Conference (GISRUK), University of Leicester.

**Yelena Ogneva-Himmelberger**, 2017. *Birth Weight in Massachusetts: Spatial variation and Associations with Socio-demographic and Environmental Factors* – presented at the AAG meeting, Boston, MA, April 5-9, 2017.

**Yelena Ogneva-Himmelberger**, 2017. *Secondary Cities Project. Case study overview: Kharkiv, Ukraine* – presented at the AAG meeting, Boston, MA, April 5-9, 2017.

**Yelena Ogneva-Himmelberger**, 2016. *GIS Analysis of Associations between Preterm Births, Air Pollution, and Environmental Amenities* – presented at URISA GIS and Health Symposium, Washington, DC, June 1-3, 2016.

**Yelena Ogneva-Himmelberger**, 2016. [Using QGIS in an Advanced GIS course: Instructor and Student Perspectives](#) – presented at the 2nd International QGIS User and Developer Conference, Girona, Spain, May 24-29, 2016.

**Yelena Ogneva-Himmelberger**, 2014. *Review of raster analysis with IDRISI software* – invited guest speaker at GIS conference «Use of GIS for resource management» organized by the Southern Urals State University, Russia, January 21, 2014 (delivered via Skype).

**Yelena Ogneva-Himmelberger**, Tyler Dahlberg, Tiffany Simas-Moore, Kristen Kelly, 2013. *Preterm births in Worcester, MA: Spatial Analysis of Associations with Environmental and Socio-demographic Factors* – presented at the NESTVAL Annual meeting, Clark University, Worcester, MA, October 19, 2013.

Supriya Khadke, Octavia Taylor, **Yelena Ogneva-Himmelberger**, Gilles Charest, Deidre Sepavich, Kristen Roy Bujnowski, Tim Downs, 2013. *Using the Power of Spatial Environmental and Socio-Demographic Data: Gauging PBS Sample Representativeness and Informing Health-care Policies and Practices*. Presented at the National Children's Study Expanded Steering Committee Meeting, Bethesda, MD, September 2013.

Kelly K, Moore-Simas T, **Ogneva-Himmelberger Y**, Dahlberg T. 2013. *Racial Differences in Preterm Birth: Geocoding of Worcester*. AAP Perinatal Section - New England Conference on Perinatal Research, Chatham, MA 2013.

**Yelena Ogneva-Himmelberger**, 2013. *Birth Weight Disparities in Massachusetts: Spatial Analysis of Associations with Socio-demographic Factors and Air Pollution* – presented at the 2013 AAG Annual Meeting, Los Angeles, California, April 9-13, 2013.

**Yelena Ogneva-Himmelberger**, 2012. *GIS for regional development* – presented at the international seminar “Geospatial Technologies: current issues and development trends”, Southern Urals State University, Chelyabinsk, Russia, November 1, 2012 (delivered via Skype).

**Yelena Ogneva-Himmelberger**, 2012. *Spatial analysis of health data: collaborative partnership between Clark University and medical institutions in Massachusetts*. Presented at the International Health GIS Conference, St. Petersburg, Russia, May 22-24, 2012.

**Yelena Ogneva-Himmelberger**, Warren Ferguson, Suzanne Cashman, Rahul Rakshit, Marie Caggiano, Konstantinos Deligiannidis, Heather-Lyn Haley, Ben Adler 2011. *Mapping patient distributions informs community-oriented primary care in four Community Health Centers in Central Massachusetts* - presented at the “Community Health and Research: Making the Connections” research symposium. UMASS Medical School, November 4, 2011, Worcester, MA

**Yelena Ogneva-Himmelberger**, 2011. *Reflections about geoweb for crisis analysis and beyond*. 18th Annual Critical Geography Conference: Constructing a radical politics in an age of crisis. November 5, 2011. Worcester, MA.

**Yelena Ogneva-Himmelberger**, Timothy J. Downs, Robert Goble, Octavia Taylor, Onesky Aupont, Tiffany Moore Simas, Jena Adams, Linda Churchill; Mayra Tisminetzky, Deidre Sepavich, Thomas McLaughlin, Marianne Felice, 2011. *Vulnerability-Based Stratified Random Sampling of 100% of Providers/Catchments/Eligible Women Patients in Worcester County*. Poster presentation at the Research Day at the National Institutes of Health, Bethesda, August 2011.

**Yelena Ogneva-Himmelberger**, 2011. *Geoportals and geospatial technologies for regional development: the US experience* – keynote address at the workshop “Geospatial Technologies as Tools for Regional Development and Innovation”, Southern Ural University, Chelyabinsk, Russia, June 1, 2011.

**Yelena Ogneva-Himmelberger**, 2010. *Incorporating community spatial analysis needs into the GIS Curriculum*. ESRI Educational User conference, San Diego, California, July 10-13, 2010.

**Ogneva-Himmelberger, Y.**, C. Pearsall and R. Rakshit, 2009. *Using Geographically Weighted Regression to Explore Socioeconomic Indicators and Impervious Surface across Massachusetts*. 17th International Conference on Geoinformatics, Fairfax, VA, August 12-14, 2009.

**Yelena Ogneva-Himmelberger**, Tim Downs. *Sampling for National Children’s Study: Applying GIS and Vulnerability Concepts*. URISA's Second GIS in Public Health Conference, Providence, Rhode Island June 5-8, 2009.



**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.

**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.

**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.

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 water birds*. Society for Economic Botany Annual Meeting, Fort Worth, Texas 5 – 9 June 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).

## WORKSHOPS TAUGHT

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*Using open-source GIS to analyze accessibility of community resources to people with disabilities* – delivered lecture to 30 faculty, students and community members in Kharkiv, Ukraine. The lecture was part of the ‘Secondary Cities’ project, sponsored by the Department of State and the AAG, September 21, 2016 (via Skype).

*Field data collection methods and spatial analysis for public security, accessibility, and vulnerable populations* - Designed workshop materials and delivered lectures for the ‘Secondary Cities’ project, sponsored by the Department of State and the AAG, Kharkiv, Ukraine, May 10-14, 2016.

*Spatial analysis and image processing with IDRISI and ArcGIS* - workshop for GIS professionals from the Southern Urals State University (Russia) taught at Clark University, June 6-12, 2012.

*Introduction to GIS and remote sensing* – workshop taught to government officials and educators from Russia, Southern Urals State University (Russia) taught in Chelyabinsk, Russia, June 1-2, 2011.

*Mapping and GIS for health professionals* – workshop for the faculty of the Department of Family Medicine and Community Health, UMASS Medical School, Worcester, March 27, 2009.

*Introduction to GIS* – a six-week long workshop taught at the Claremont Academy in Worcester to a class of high-school juniors and seniors, October – December 2008.

*Applications of Remote Sensing to natural resource management and land cover change analysis* – invited lectures and hands-on workshop at Astrakhan State University, Russia, October 13-18, 2008.

*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.

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

*Introduction to remote sensing (in Spanish)* - 5-days hands-on workshop at the National University of Costa Rica, summer 1996.

## **INVITED PRESENTATIONS**

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*GIS and community health* - presentation to physicians from the Hahnemann Family Health Center, Worcester MA, January 8, 2019.

*Health applications of GIS* - presentation to physicians from the Hahnemann Family Health Center, Worcester MA, January 11, 2018.

*GIS and public health* - presentation to physicians from the Hahnemann Family Health Center, Worcester MA, January 18, 2017.

*GIS, public health and urban sustainability: some examples* - invited presentation for the Greater Worcester Community Foundation, November 6, 2014.

*GIS and public health* - presentation to MD residents from the Hahnemann Family Health Center, Worcester MA, January 15, 2014.

*Food production, environment and health: the role of spatial analysis* – presentation in Food Production, Environment, and Health class, Clark University, March 27, 2013.

*Spatial analysis of low birth weight in Massachusetts* – presentation at the Geography Department Colloquium, Clark University, October 19, 2012.

*GIS and public health: asthma prevalence and environmental factors* – presentation to the medical and graduate nursing students at Family Health Center, Worcester, October 17, 2012.

*Geographic Information Systems for Community Development Planning* – presentation for the People and Places Seminar, IDCE Department, Clark University, November 30, 2010.

*GIS and spatial analysis for family and community health* – two day workshop for the Department of Family Medicine and Community Health at the University of Massachusetts Medical School, Worcester, MA, January and April 2010.

*The value of mapping in community-based research: Application of GIS for the National Children's Study in Worcester County* - an invited presentation to the Family Medicine Grand Rounds at UMASS Medical Center, Worcester, MA, January 13, 2009.

*GIS and the National Children's Study* – Keynote presentation at the International GIS Day, Mt. Holyoke College, South Hadley, MA, November 18, 2008.

*Geographic Information Systems and the National Children's Study* – an invited presentation to the Pediatric Grand Rounds at UMASS Medical School, Worcester, MA, 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.

*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* – invited 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 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.

*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.

## GRANTS

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2014-2015. **\$74,997** to Clark University for the 1<sup>st</sup> year. Researcher. U.S. Department of Justice, Bureau of Justice Assistance. *Byrne Criminal Justice Innovation Program*.

2009. **\$2,740**. Principal investigator. UMASS Memorial Medical Center, Inc., Worcester, MA. *Mapping the uninsured populations in Worcester*.

2007-2013. **\$415,831**. Co-Investigator. National Institute of Child Health and Human Development. *The National Children's Study*

1994-1995. **\$5,000**. U.S. Man and Biosphere Program, Tropical Directorate. Research grant for dissertation field work in Mexico

## SCHOLARSHIPS AND AWARDS

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Hodgkins Junior Faculty Award	Clark University, 2013
Environmental Education Award to design a new course "GIS Applications to Human and Animal Health"	Tufts University, 2006
Scholarship to attend the International Young Scholars Summer Institute in Geographic Information (Berlin, Germany)	National Center for Geographic Information and Analysis, 2006
Full scholarship for Master's thesis field work and research in Cuba	Moscow State University, 1986-1987

## PROFESSIONAL SERVICE

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

Member of the U.S. Environmental Protection Agency (EPA) Science to Achieve Results (STAR) Graduate Fellowship Review Board

Reviewer for the following journals: Applied Geography, Professional Geographer, International Journal of GIS, International Journal of Applied Geospatial Research, International Journal of Environmental Engineering, Building and Environment, Biotropica, Environmental Management, Sustainability, Pure and Applied Geophysics.

## COMMUNITY SERVICE – GIS PROJECTS IN WORCESTER

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March - April 2016 – collaborated with Dr. Anita Fabos on a project related to the refugee food culture in Worcester. Designed methodology to map food-related resources in the city (ethnic restaurants, grocery stores, wholesale food distributors, and farmers markets).

February - April 2016 – created interactive online map (with three GISDE students) for the Community Harvest Project (<http://www.community-harvest.org/>). The map shows current and potential food distribution sites for the Worcester County Food Bank and the Community Harvest project.

February – May 2016 – Managed research team (three GISDE Students and myself) for the project called “Missed medical appointments in refugee patients of the Family Health Center of Worcester (FHCW): Does geographic proximity matter?” Collaborators from the FHCW include Dr. Valdman, Dr. Koebele and Ms. Amy Feeley.

November 2014 – created interactive online map (with students in Advanced vector GIS class) showing local farms and their business partners for Lettuce Be Local, LLC. Map is [here](#).

April 2013 – at the request of City Councilor Sarai Rivera created series of maps showing community resources in District 4 in Worcester (in collaboration with students in GIS for Community development and planning class). Results were presented to the Councilor in May 2013.

April 2013 – Mapping street walkability near Woodland School in Worcester. Created maps showing walkability score for streets within 1/2mile of school (in collaboration with students in GIS for Community development and planning class). Presented results to Karin Valentine Goins from the “Safe Routes to School” Project.

February 2013 – Main South Community mapping project. Created series of online digital maps using publicly available data that characterize the Main South neighborhood (in collaboration with Rachael Maingot, GISDE student). This online map collection is used by Clark University, community groups and NGOs to develop proposals for funding various community projects.

September 2011 - GIS analysis of solar energy suitability in Auburn (in collaboration with students in Environmental applications of GIS class). Results were presented to the Auburn officials.

March-April 2010 – Mapping and spatial analysis of food security in Worcester in relationship to the existing and potential community gardens (in collaboration with students in Advanced vector GIS class). This was a request of the Regional Environmental Council of Worcester.

October-November 2009 – GIS analysis of the Union Station visibility from highways in Worcester (in collaboration with students in Advanced vector GIS class). This was a request of the Executive Office of Economic, Neighborhood & Workforce Development of the City of Worcester. Results were presented to the City of Worcester officials

March-April 2009 – GIS analysis of solar energy suitability in Worcester (in collaboration with students in Advanced GIS class). Results were presented to the City of Worcester officials

April 2008 – created a map of properties owned by the Worcester Common Grounds in Worcester (Requested by the Executive Director of the Worcester Common Grounds)

April 2008 – Mapping of school choice children and “drop-outs” for the Worcester public schools Department (in collaboration with students in Vector GIS class). Delivered to the Superintendant’s office.

October 2007 – Mapping of food security-related resources in Worcester for the Worcester Historical Museum Exhibit “Got Food? Creating a Hunger Free Community” (November 8, 2007 – April 12, 2008).

November 2007 – created a map of food pantries in Worcester (Requested by Bill Highlands, Director of Saint Paul's Outreach, a food pantry in downtown Worcester)

Fall 2007 – Colleges of Worcester Consortium – created series of maps showing where college students volunteer in Worcester (in collaboration with students in Vector GIS class). Delivered to the Community Engagement Committee of the Consortium.

May 2007 – Worcester Advisory Food Policy Council. Mapping and spatial analysis of hunger vulnerability in Worcester. Results of GIS analysis helped Worcester Advisory Food Policy Council to identify a location for their pilot project for hunger alleviation in the city.

Spring 2007 – Map of wheelchair-accessible ramps on campus. Delivered to Jane Daigneault, Associate Director of Academic Advising, Coordinator of Disability Services

Spring 2007 - Maps of emergency phones on Clark campus. Delivered to Stephen Goulet, Campus Police Chief.