

Florencia Sangermano

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EDUCATION

- Ph.D. Geography (2009): Graduate School of Geography, Clark University.
Dissertation Research: 'Inferential Monitoring of Global Change Impact on Biodiversity through Remote Sensing and Species Distribution Modeling'.
- M.A. Geography (2008): Graduate School of Geography, Clark University.
Major: Geographic Information Science and Remote Sensing.
First Minor: Landscape Ecology.
Second Minor: Global Change Impact on Biodiversity.
- B.Sc. / M.Sc. Biology (2003): Universidad Nacional de Mar del Plata (UNMdP) Argentina.
Thesis Research: 'Impact of different forest cover on sand dune soil development' (original title in Spanish)

RESEARCH INTERESTS

Conservation and Environmental applications of spatial analysis (Including Species distribution Modeling and Land change Modeling), Remote Sensing, GIS, Landscape Ecology

CURRENT POSITION

Visiting Assistant Professor, Graduate School of Geography and IDCE. Clark University.
Assistant Research Professor, Conservation GIS and Earth System Information Science, Clark Labs, Clark University

RESEARCH

- October 2013 – August 2014:** Researcher. Mapping shrimp mariculture activities and coastal habitats in Thailand, Vietnam and Cambodia.
Funded by: Moore Foundation
- November 2012 – March 2013:** Principal Investigator. Species distribution modeling in Panama.
Funded by: Hardner and Gullison. www.hg-llc.com
- April 2012 – August 2012:** Principal Investigator. Land cover change impacts on forest cover and biodiversity: Species modeling and biodiversity offset analysis in the Dominican Republic.
Funded by: Hardner and Gullison. www.hg-llc.com
- June 2011- January 2012:** Principal Investigator: Land cover change analysis and species distribution modeling in Donoso, Panama.
Funded by: Hardner and Gullison. www.hg-llc.com
- January 2010 – June 2011:** Post-doctoral researcher in Conservation GIS and Earth Systems Information Science, Clark Labs- Clark University.
Project: Land cover change and REDD

August 2009 - January 2010: Research associate. Development of a new algorithm for the calculation of land transition potentials in relation to REDD projects.

Funded by: Moore Foundation and Google.org

July 2008 - August 2009: Lead Investigator. Conservation prioritization for the Andes-Amazon region.

Funded by: Moore Foundation, through contract to Clark Labs

December 2007 - July 2008: Research associate. Early Warning System Technology for Food, Health and Ecosystem Security. Clark Labs, Clark University.

Funded by: Moore Foundation and Google.org

June 2006 - December 2007: Research associate. Use of time series for biodiversity monitoring. Clark Labs, Clark University.

Funded by: Moore Foundation.

January 2006 - June 2006: Research assistant / Student project leader. Modeling and conservation of biodiversity in the Andes Region. Clark Labs, Clark University and Conservation International- Andes CBC.

Funded by: Conservation International

June 2005 - January 2006: Research assistant / Student project leader. Land change modeling for biodiversity conservation in the Andes. Clark Labs, Clark University and Conservation International- Andes CBC.

Funded by: Conservation International

August 2004 - June 2005: Research assistant. Mapping Gypsy Moth risk infection in the United States. Clark Labs, Clark University and United States Department of Agriculture (USDA)

Funded by: United States Department of Agriculture (USDA)

July 2003 - June 2005: Research assistant. Southern Yucatan Peninsula Region (SYPR) Project. George Perkins Marsh Institute and Graduate School of Geography, Clark University.

Funded by: National Aeronautics and Space Administration (NASA)

PUBLICATIONS IN PEER-REVIEWED JOURNALS (* equal contribution)

Shatz A.J., Rogan J., **Sangermano F.**, J.Miller. 2015. Modeling the risk of spread and establishment for Asian Longhorned Beetle (*Anoplophora glabripennis*) in Massachusetts from 2008-2009. Geocarto International. In press.

Sangermano F., Bol L., Galvis P, Gullison T., Hardner J., and Ross G. 2015. Habitat suitability and protection status of four species of amphibians in the Dominican Republic. Applied Geography. doi:10.1016/j.apgeog.2015.06.002

Sangermano F., Bol L., Galvis P, Gullison T., Hardner J., and Ross G. 2015. Forest baseline and deforestation map of the Dominican Republic through the analysis of time series of MODIS data. Data in Brief. 10.1016/j.dib.2015.06.006

Shatz A.J., 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

- J. R Eastman*, **Sangermano F.***, Machado-Machado E A.* , Rogan J., and Anyamba A. 2013. Global Trends in Seasonality of NDVI, 1982-2011. *Remote Sensing* 5(10):4799-4818
- Sangermano F.**, Toledano J., Eastman, J.R. 2012. Land cover change in the Bolivian Amazon and its implications for REDD+ and Endemic Biodiversity. *Landscape Ecology* 27(4): 571-584
- Sangermano F.** and Eastman J.R. 2012. A GIS framework for the refinement of species geographic Ranges. *International Journal of GIS* 26 (1): 39-55
- Schmook B., Dickson R.P., **Sangermano F.**, Vadjunec J., Eastman J.R. and Rogan J. A. 2011. Step-Wise Land Cover Classification of the Tropical Forests of the Southern Yucatán, Mexico. *International Journal of Remote Sensing* 32(4): 1139-1164.
- Khatchikian C.* , **Sangermano F.***, Kendell D. and Livdhal T. 2010. Evaluation of Species distribution model algorithms for fine-scale container breeding mosquito risk prediction. *Medical and Veterinary Entomology* 25(3): 268-275
- Sangermano F.**, Eastman, J.R., and Zhu H. 2010 Similarity weighted instance based learning for the generation of transition potentials in land change modeling. *Transactions in GIS* 14(5): 569-580.
- Eastman, J.R., **Sangermano F.**, Ghimire B., Zhu H., Chen H., Neeti N., Cai Y., Machado E.A. and Crema S.C. 2009. Seasonal Trend Analysis of Image Time Series. *International Journal of Remote Sensing* 30(10): 2721-2726.
- Lippit C.D., Rogan J., Toledano J., **Sangermano F.**, Mastro V. and Sawyer A. 2008. Incorporating Human Interaction Variables in a Non-parametric Decision Support System to Predict Gypsy Moth Outbreak. *Ecological Modelling* 210(3): 339-350.
- Vester, H. F. M., Lawrence, D., Eastman, J. R., Turner, B. L. II, Calme, S., Dickson, R., Pozo, C., **Sangermano, F.** 2007. Land Change in the Southern Yucatán and Calakmul Biosphere Reserve: Implications for Habitat and Biodiversity. *Ecological Applications* 17:989–100.

OTHER PUBLICATIONS

- Contributor to Working Group 7: In situ / Remote-Sensing Integration through Modelling. Group on Earth Observations Biodiversity Observation Network (GEO BON) Detailed Implementation Plan. May 2010.
http://www.earthobservations.org/documents/cop/bi_geobon/geobon_detailed_imp_plan.pdf
- Sangermano, F.** 2009. Inferential Monitoring of Global Change Impact on Biodiversity through Remote Sensing and Species Distribution Modeling. Ph.D. Dissertation. Clark University, Worcester, MA.
- Toledano J., Eastman J.R., **Sangermano F.** and Killeen T. 2008. GIS Helps Gauge Land Change Effects on the Nation's Endemic Biodiversity: Conserving Bolivia's Critical Resources. ArcNews Magazine. Spring 2008.
<http://www.esri.com/news/arcnews/spring08articles/conserving-bolivias.html>
- Reprinted in GIS Best Practices: GIS for Climate change. November 2008. ESRI Press.
<http://www.esri.com/library/bestpractices/climate-change.pdf>
- Reprinted in GIS Best Practices: Forest Carbon Management. December 2009. ESRI Press.
<http://www.esri.com/library/bestpractices/forest-carbon-management.pdf>
- Eastman J.R. and **Sangermano F.** 2008. Spatial Priors Ease Classification of Tropical Dry Forest. Earth Imaging Journal. July/August 2008. 32-34.

Eastman, J.R., **Sangermano, F.**, 2005. Application of spatial priors in the maximum likelihood classification of tropical dry forest classes. Clark Labs News. Summer 2005 <http://www.clarklabs.org/Summer2005.asp?cat=5&subcat=1>

Sangermano, F. 2002. Efecto de diferentes coberturas vegetales en el desarrollo de suelos sobre dunas costeras en el Viviero Florentino Ameghino. Tesis de Licenciatura. Universidad Nacional de Mar del Plata, Argentina. (BSc./MSc. Thesis: Impact of different forest cover on sand dune soil development)

INVITED LECTURES AND PRESENTATIONS (**presenter*)

Sangermano F.* Geospatial Technologies for Environmental Conservation. Babson College. January 25th, 2016

Sangermano F.* Land Change Modeling for REDD+. Part of the Workshop: Modulo II y III: Inventarios nacionales de gases de efecto invernadero de la categoría uso de suelo, cambio de uso de suelo y silvicultura, para la medición, monitoreo, reporte y verificación de REDD+ en Perú. Organized by: The Ministry of Environment of Perú. Lima, Perú. July 22-25, 2013.

Sangermano F.*, Toledano J., Eastman, J.R. Cambios de uso de suelo en Bolivia, implicaciones para la biodiversidad. October 2011. Universidad Nacional de Loja, Ecuador.

Sangermano F.* Biodiversity conservation and land cover change. Atwood panel discussion. Clark University, October 14, 2011

Sangermano F.* Land cover change analysis and species distribution modeling in Donoso, Panama. Minera Panama SA, Biodiversity Action Plan: Modeling landscape and species distribution. Panama City, Panama. September 5-6, 2011.

Sangermano F.* Inferential biodiversity monitoring through remote sensing. BioSynC workshop "Integrating and refining the global knowledgebase of species distributions – data, tools, applications". Chicago IL. May 21 -23, 2009.

Eastman J.R. and **Sangermano F.*** Modelos de distribución de especies utilizando Tipicalidades estándar y ponderadas. Simposio: Modelos de Predicción para la Distribución de Especies Andinas. NatureServe September 26, 2005. Lima Peru.

Eastman J.R., Palmer R. and **Sangermano F.*** The use of prior probabilities for the classification of remotely sensed data with the Maximum Likelihood method: an application for land change analysis in the Southern Yucatan Peninsula Region. 1er Congreso de usuarios de Idrisi de Latinoamérica y España. Toluca, México. June 2004.

Guest lecturer:

- IDCE 391-394: GISDE professional Seminar + Environmental Applications of GIS (2012, 2013, 2014, 2015). Graduate School of Geography. Clark University
- GEOG 332: Landscape Ecology (2011, 2012, 2013, 2014). Graduate School of Geography. Clark University
- GEOG397: Advanced Topics in GIS (2008, 2009). Graduate School of Geography. Clark University
- BIOL084: Biodiversity Lab (2004). Biology Department. Clark University

INVITED WORKSHOPS

- United Nations Statistical Division, System for Environmental –Economic Accounting, and The Secretariat of the Convention on Biological Diversity. Expert Group Meeting: Modelling Approaches and Tools for Testing of the SEEA Experimental Ecosystem Accounting..
- Group on Earth Observations- Biodiversity Observation Network (GEO BON), 2nd 'all-hands' meeting. Working group "In-Situ / Remote Sensing: Integration and Modeling Across Scales", Pacific Grove, California, USA, 3-6 December, 2012.
- National Center for Ecological Analysis and Synthesis (NCEAS) working group "Choosing and making available the right environmental layers for modeling how the environment controls the distribution and abundance of organisms". March 2010 and October 2010, Santa Barbara, CA. <http://www.nceas.ucsb.edu/projects/12504>
- Group on Earth Observations- Biodiversity Observation Network (GEO BON) working group "In-Situ / Remote Sensing: Integration and Modeling Across Scales". February 2010, Monterey CA. http://www.earthobservations.org/cop_bi_geobon.shtml
- Biodiversity Synthesis Group (BioSynC) working group "Integrating and refining the global knowledgebase of species distributions – data, tools and applications". Chicago Field Museum, May 21-23, 2009. <http://synthesis.eol.org/synthesismetings/species-distributions>. This workshop discussed the feasibility of implementation of the "Map of Life" (<http://www.mappinglife.org/>, Jetz et al. 2012. Trends in ecology & evolution 27 (3):151 – 159).

PRESENTATIONS AT CONFERENCES (**presenter, * student*)

- Arakwiye B.* and **Sangermano F.** Albertine rift endemic bird's habitat suitability and protection status, US-IALE 2016 Asheville, NC.
- Arakwiye B.* and **Sangermano F.** Predictive distribution mapping and protection status of Albertine rift endemic birds, Student Conference on Conservation Science 2016, New York.
- Thieme A.*, **Sangermano F.**, Rogan J, Arakwiye B, Cormier H, Cox M, Gallant M, Gaudreau M, McCartney S, Naphen B, Stanley S, and Wilkie D. Evaluating CLASlite in Forest Monitoring for REDD+ within Four Wildlife Conservation Society Target Areas. US-IALE 2016 Annual Meeting.
- Gill N.* and **Sangermano F.** The africanized honeybee in a telecoupling framework: a comparison between species distribution models for southern California and southern Utah. US-IALE 2016 Annual Meeting (NASA-MSU Professional Enhancement Award to Nate Gill).
- Thieme A.*, McCartney S.*, Rogan S, **Sangermano F.**, Wilkie D "Using CLASlite to map deforestation in Makira Natural Protected Area, Madagascar" AGU 2015 Fall Meeting.
- Arakwiye, B.*, Gaudreau, M.*, Day M.* and **Sangermano, F.** Assessing land Cover change and potential restoration areas in Gishwati-Mukura Landscape, Rwanda. AAG Annual Meeting, 2015 Chicago, USA
- Sangermano F.***, Toledano J., Eastman, J.R. Spatial Modeling of Deforestation for REDD: Land change in the Bolivian Amazon and its implications for REDD and Endemic Biodiversity. AAG Annual Meeting, New York, NY. February 2012.
- Sangermano F.***, Toledano J., Eastman, J.R. Land change in the Bolivian Amazon and its implications for REDD and Endemic Biodiversity. AAG Annual Meeting, Seattle, WA. April 2011.

- Herrero-Jauregui C., Machado E.A., **Sangermano F.**, Foster D., Reuter F., Guzman A., Abt M. and Brassiolo M. Land sparing vs. land sharing in the Gran Chaco: the case of the Argentinean province of Santiago del Estero. 22nd Annual Harvard Forest Annual Symposium, Harvard Forest, Petersham, MA. March 15, 2011. (Poster)
- Sangermano F.***. Land Cover Change and Biodiversity Modeling. Full day workshop. US-IALE, Anchorage AK, 16-21 May, 2014.
- Shatz A.J.+, Rogan J., **Sangermano F.**, Miller J. Modeling the Risk of Spread and Establishment for Asian Longhorned Beetle (*Anoplophora glabripennis*) in Massachusetts from 2008-2009. NESTVAL, Worcester MA, October 2013.
- Eastman J.R*., **Sangermano F.***, Machado E., Rogan J. and Anyamba A. Global Trends in Seasonality of NDVI, 1982-2011. NESTVAL, Worcester MA, October 2013.
- Sangermano F*. Land Change Modeling and its implications for biodiversity. Half day workshop. US-IALE, Austin TX, 14-18. April, 2013.
- Shatz A.J.+, Rogan J., and **Sangermano F.** Assessing susceptibility of contiguous core forest habitats to Asian Longhorned Beetle (*Anoplophora glabripennis*) infestation in Worcester County, Massachusetts. AAG Annual Meeting, Los Angeles California, April 9-13, 2013
- Sangermano F.***. Land Change Modeling and its implications for biodiversity. Technical workshop. Society of Conservation GIS meeting, Monterrey California, July 2012.
- Johnson L.M.+, **Sangermano F.**, Jones M.T. and Willey L.L. Predicting Core Reproductive Habitat for Wolverine in Quebec, Canada Using a GIS-Based Deductive Modeling Approach. US-IALE, Newport RI, April 2012.
- Doiron K.+ and **Sangermano F.** Biodiversity Model Accuracy Assessment using North American Breeding Bird Species Data. AAG Annual Meeting, Washington DC. April 2010.
- Eastman J.R, Toledano J., **Sangermano F.** and Crema, S. Modeling Deforestation in the Bolivian Lowland – Species and Carbon Impact. Forest Day III Coinciding with UNFCCC COP 15. December 13th, 2009. Copenhagen, Denmark. (Poster)
- Tognelli M.F. and **Sangermano F.** Gap Analysis and Conservation Priorities of Argentine Terrestrial Mammals. X International Mammalogical Congress. 9-14 August, 2009. Mendoza, Argentina. (Poster)
- Sangermano F.*** and Eastman J.R. Assessing the impact of global change on biodiversity through remote sensing. AAG Annual Meeting Las Vegas NV, March 2009.
- Sangermano F.*** Inferential monitoring of global change impact on biodiversity. Society of Conservation Biology Annual Meeting, Chattanooga TN, July 2008. (Poster)
- Sangermano F.*** and Eastman J.R. Species Distribution Modeling from Polygon Data: A Procedure for the Re-definition of Species Range Polygons. AAG Annual Meeting Boston MA, April 2008.
- Mauco L., Favero M., Hays H., Di Constanzo J. and **Sangermano F.** Efecto de las condiciones ecológicas de invernada de *Sterna hirundo* en Argentina sobre la cronología migratoria y la performance reproductiva en sitios de nidificación. XII Reunión Argentina de Ornitología. San Martín de los Andes, Argentina. March 2008. (Poster)
- Toledano J., Eastman J.R. and **Sangermano F.** Conserving Bolivia's Critical Resources through GIScience. NCSE 8th National Conference on Science, Policy and Environment: Climate Change Science & Solutions. Washington DC., January 2008. (Poster)

Sangermano F.* and Eastman J.R. The use of Mahalanobis Typicalities to model the distribution of species with different response curves to environmental gradients. 7th IALE World Congress, Wageningen, The Netherlands, 8-12 July 2007.

Eastman J.R. and **Sangermano F.** An automated procedure for the bulk re-processing of species range polygons. . 7th IALE World Congress, Wageningen, The Netherlands, 8-12 July 2007.

Sangermano F.* and Eastman J.R. Linking GIS and Ecology. The use of Mahalanobis Typicalities to model species distribution. XI CONFIBSIG (Conferencia Iberoamericana de SIG). Buenos Aires, Argentina, May 2007. (oral – in Spanish)

Eastman J.R. and **Sangermano F.*** Re-defining species range polygons using GIS. XI CONFIBSIG (Conferencia Iberoamericana de SIG). Buenos Aires, Argentina, May 2007. (poster)

Lippitt C.D., Rogan J., Toledano J., **Sangermano F.**, Eastman J.R, Mastro V. and Sawyer A. Incorporating human interaction variables in a non-parametric decision support system to predict gypsy moth outbreak. US-IALE Annual Symposium Tucson Arizona, April 9-13, 2007.

Sangermano F.* GIS Workshop on Ecological Sustainability: The Land Change Modeler for Ecological Sustainability. 1st European Congress of Conservation Biology. Eger Hungary 22-26 August, 2006.

Lippitt C., Toledano J. , **Sangermano F.** and Eastman J.R. Gypsy Moth Risk Modeling for Uninfested Portions of the United States using Neural Networks. ASPRS Reno, 2006.

Sangermano F.* and Eastman J.R. Use of Typicality Probabilities derived from Mahalanobis Distance for modeling species distribution. AAG meeting Chicago 7-11 March, 2006.

Eastman J.R., Schmook B.I., Dickson R.P., **Sangermano F.** and Vadjunec J.M. Land Cover Classification of the Southern Yucatan Peninsula Region. AAG meeting Chicago 7-11 March, 2006.

Crema S., Dai W., Eastman J.R. and **Sangermano F.** A GIS-Based Multi-Criteria Biological Corridor Design Tool. AAG meeting Chicago 7-11 March, 2006.

ACADEMIC TEACHING

2015

Spring Semester

GEOG 336. Wildlife Conservation Research Seminar

IDCE 310. Introduction to Geographical Information Science

GEOG190. Introduction to Geographical Information Science

GEOG 330. Introduction to Species Distribution Modeling

Fall Semester

GEOG 293. Introduction to Remote Sensing

GEOG 383.02. Introduction to Remote Sensing

GEOG 39910. Directed Studies: Species Distribution Modeling

2014

Spring Semester

GEOG 336. Wildlife Conservation Research Seminar

IDCE 310. Introduction to Geographical Information Science

GEOG 39925. Directed Studies: Evaluating similarities between IUCN and rapid assessments in Peru.

Fall Semester

GEOG 293. Introduction to Remote Sensing

GEOG 383. Introduction to Remote Sensing

GEOG 39910. Directed Studies: Species Distribution Modeling

IDCE 3021329. Research advisor: Master's final research requirement

2013

GEOG 336. Wildlife Conservation Research Seminar. Spring Semester

2012

GEOG 336. Wildlife Conservation Society Research Seminar. Spring Semester

IDCE 31290. Directed Studies in Land Cover Change Modeling. Spring Semester 2012

2011

IDCE 39926. Research advisor: Species distribution modeling. Spring Semester 2011

IDCE 30213. Research advisor: Master's final research requirement. Fall Semester 2011

2009

GEOG190. Introduction to Geographical Information Science. Spring Semester 2009

INSTRUCTOR OF WORKSHOPS AND SHORT COURSES

Invited Instructor: Remote Sensing for Risk Mapping. May 18- 22, 2015. Organized by the Ministry of Agriculture and University of Cordoba, Argentina.

Instructor: Land Cover Change and Biodiversity Modeling. Full day workshop. US-IALE, Anchorage AK, 16-21 May, 2014.

Invited Instructor: Land Change Modeler and MARXAN: Spatial tools for conservation planning and land change monitoring in important conservation areas. Professional training workshop for government officials from Ecuador. Organized by: The Nature Conservancy. May 7-8 2013, Lago Agrio, Ecuador.

Instructor: Land Change Modeling and its implications for biodiversity. Half day workshop. US-IALE, Austin TX, 14-18. April, 2013.

Co-Instructor: Trend analysis in Forest Environments using GIS. 22-26 October 2012. Córdoba, Argentina. Organized by: Universidad Nacional de Córdoba, and Comisión Nacional de Aeronáutica Espacial, Argentina.

Co-Instructor: "New vertical applications in GIS: land change modeling, spatio-temporal analysis and REDD" ("Nuevos desarrollos verticales en geomática: modelación de cambios de uso de suelo, análisis espacio-temporal y herramientas REDD"). October 24-27. Universidad Nacional de Loja, Ecuador. (in Spanish)

Instructor: Modeling REDD-Baselines Using IDRISI's Land Change Modeler. AAG Workshop. April, 2010. Washington DC. With Stefano Crema (Clark Labs) and Marc Steininger (Conservation International)-

Instructor: Deforestation modeling for the Seima Protection Forest REDD in Cambodia – Wildlife Conservation Society, Worcester, 2009.

Instructor Workshop: "Spatial Planning: Applications of Multi-Criteria Evaluation for Land Use Planning in Suriname". November 16-24, 2009. Paramaribo, Suriname. With Grace Wong and Daniel Juhn (Conservation International)

Instructor: "Applications of GIS for environmental conservation" (Aplicaciones de SIG en la conservación del medio ambiente'). Universidad Nacional de Mar del Plata, Argentina. December 20-21, 2007. (in Spanish)

Teaching Assistant: "Land change modeling methods: calibration, validation and extrapolation". IALE World Congress. Wageningen, Netherlands, 2007

Instructor: "GIS Workshop on Ecological Sustainability: The Land Change Modeler for Ecological Sustainability". 1st European Congress of Conservation Biology. Eger Hungary August 22-26, 2006.

Instructor: "Applications of Idrisi for environmental conservation and planning" ("Aplicaciones de Idrisi en la planificación de la conservación del medio ambiente"). Heredia, Costa Rica May 22- 26, 2006. (in Spanish)

Instructor: "Introduction to GIS". 1st IDRISI Iberoamerican Users Conference. Toluca, Mexico, June 16- 18, 2004. (in Spanish)

ACADEMIC ADVISING

- Hannah Rush (5th year M.Sc. thesis committee) : Geography, Clark University. Expected 2016
- Erin Glennie (5th year M.Sc. thesis committee) : Geography, Clark University. Expected 2016
- Nate Gill, Ph.D candidate (dissertation committee): Geography, Clark University. Expected 2018
- Mandy Gaudreau, Ph.D candidate (dissertation committee): Biology, Clark University. Expected 2018
- Kate Markham, M.Sc. (Advisor): Environmental Science and Policy Program, Clark University. Expected 2017
- Andrea Cabrera (second reader): Environmental Science and Policy Program, Clark University. Expected 2016
- Flor Monroe (co-advisor): Environmental Science and Policy Program, Clark University. Expected 2016
- Zachary Peloquin, B.A. (Advisor). Honors Thesis in Geography, Clark University. Expected 2016
- Matthew Warndorf M.Sc. (thesis committee member) Biology, Clark University. 2015
- Sean McCartney, M.Sc. (Advisor) Geographical Information Science for Development and Environment Program, Clark University. 2015
- Liudmila Osipova, M.Sc. (Advisor) Environmental Science and Policy Program, Clark University. 2013
- Lori Johnson, M.Sc. (Advisor) Geographical Information Science for Development and Environment Program, Clark University. 2012

GRANTS AND AWARDS

- Principal Investigator: Training on Spatial tools for conservation planning and land change monitoring in important conservation areas. Nature Conservancy.
- Principal Investigator: Species Distribution Modeling in Panama - Hardner & Gullison.
- Principal Investigator: Species distribution modeling and biodiversity offsets analysis in the Dominican Republic - Hardner & Gullison.
- Principal Investigator: Land Cover Change Analysis and Species Distribution Modeling in Donoso, Panama. - Hardner & Gullison.
- Pruser-Halzhauer Graduate Enhancement Fund. 2008
- Clark University Ph.D. Scholarship. 2004 to 2009
- Graduate School of Geography Travel Awards, Clark University. 2005, 2006 and 2007

ACADEMIC SERVICE

- Invited member of IUCN Red List of Ecosystems Committee on Scientific Standards 4 years appointment
- Committee member of the Conservation Remote Sensing Network Best practices group
- Participant of GEOBON Working group 7
- Hiring Committee for Earth Systems Science position, Clark University, Fall 2008.
- Reviewed articles for:
 - Applied Geography. Elsevier
 - Remote Sensing Applications. Elsevier

Landscape Ecology. Springer.
 Land Use Science, Taylor and Francis
 Journal of Biogeography. Blackwell.
 Environmental Engineering Science. LibertPub
 Ecography: Pattern and Diversity in Ecology. Oikos
 Remote Sensing of the Environment. Elsevier
 Remote Sensing. MDPI
 Geocarto International. Taylor and Francis
 Transactions in GIS. Wiley
 European Journal of Remote Sensing
 Biodiversity and Conservation. Taylor and Francis
 Canadian Journal of Remote Sensing. Taylor and Francis
 Animal Conservation, Wiley
 Remote Sensing Applications: Society and Environment, Elsevier
 Journal of Insect Conservation, Springer
 Clark U Undergraduate Research Journal. Clark University

OTHER PROFESSIONAL ACTIVITIES

- Research and algorithm design
 - TerrSet 18 (Land Change Modeler for Ecological Sustainability, Habitat and biodiversity modeler, climate change adaptation modeler, ecosystem services modeler)
 - Idrisi 17.0 "Selva" (Land Change Modeler for Ecological Sustainability).
 - Idrisi 16.0 "Taiga" (Earth Trends Modeler and the Land Change Modeler for Ecological Sustainability).
 - Idrisi 15.1 "The Andes Edition" (participated in the development of the Land Change Modeler for Ecological Sustainability: a tool to explore, analyze and project land cover change and evaluate its implications on biodiversity — Also released as an extension of ArcGIS)
- Documentation and help system
 - TerrSet 18
 - Idrisi 17.0 "Selva".
 - Idrisi 16.0 "Taiga".
 - Idrisi 15.1 "The Andes Edition".
- Technical support. Clark Labs, Clark University: January 2003 – August 2004.
- Internship Southern Yucatan Peninsula Region Project. George Perkins Marsh Institute and Graduate School of Geography, Clark University: January 2003 – July 2003.
- Internship 2001-2002. Centro de Geología de Costas y Cuaternario. Universidad Nacional de Mar del Plata. Soil Geo-ecology.