

**John Rogan, PhD.**

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**Professional Preparation**

**Ph.D. San Diego State University / University of California at Santa Barbara, USA**

Joint Doctoral Program in Geography, 2004

**M.A. University of Arizona, Tucson, USA**

Department of Geography and Regional Development, 1998

**B.A. University of Arizona, Tucson, USA**

Department of Geography and Regional Development, Magna Cum Laude, 1996

**Appointments**

Assistant Professor of Geography, Graduate School of Geography, Clark University

(August 2003 – May 2009)

Associate Professor of Geography, Graduate School of Geography, Clark University

(May 2009 – present)

Adjunct Associate Professor of Biology, Clark University (August 2007 – present)

**Specialties / Interests**

Biophysical remote sensing of terrestrial ecosystems, Biogeography and Landscape ecology, Geographic Information Science, Data uncertainty and visualization, Land cover / Land use change mapping and modeling, urban tree cover dynamics, invasive species modelling

**Awards and Honors**

2013: Christman, Z.J., and **J. Rogan**. ESRI Award for Best Scientific Paper in Geographic Information Systems (Association of Photogrammetry and Remote Sensing)

2012: Fortier, J., **J. Rogan** and C.E. Woodcock. Boeing Award for Best Paper in Image Analysis and Interpretation (Association of Photogrammetry and Remote Sensing).

2008: **Rogan, J.** Best Paper Award for Early Career Scholars in Remote Sensing (Association of American Geographers Remote Sensing Specialty Group). Presented at the Annual Meeting of the Association of American Geographers, Boston, MA, March 2008

2008: **Rogan, J.** Hayden Junior Faculty Fellow for excellence in teaching and scholarship (Clark University)

2005: **Rogan, J.** Clark University Hodgkins Junior Faculty Award (Clark University)

2004: **Rogan, J.** University Consortium for Geographic Information Science (UCGIS) Environmental Systems Research Institute (ESRI) Young Scholars Award.

2004: **Rogan, J.** LEICA Geosystems Award for Best Scientific Paper in Remote Sensing (Association of Photogrammetry and Remote Sensing).

2004: **Rogan, J.** University Consortium for Geographic Information Science (UCGIS) Environmental Systems Research Institute (ESRI) Young Scholars Award.

2003: **Rogan, J.,** Best Paper Award-International Geographic Information Foundation (IGIF). Presented at the Annual Meeting of the Association of American Geographers, New Orleans, LA, March 12-17, 2003.

2001: **Rogan, J.,** Certificate for Excellent Oral Paper Presentation, University Consortium for Geographic Information Science (UCGIS), Summer Assembly, June 20-24

2000: **Rogan, J.,** William and Vivian Finch Award for Remote Sensing, San Diego State University, Department of Geography.

2000: **Rogan, J.,** William A. Fischer Memorial Scholarship, American Society for Photogrammetry and Remote Sensing, 11th Annual Awards Ceremony, Washington D.C.

2000: **Rogan, J.,** First Place in Physical and Mathematical Sciences: Graduate Category. Mapping Forest Cover Change Using Multitemporal Spectral Mixture Analysis: a Pilot Study in Southern California. Presented at the California State University 14th Annual Student Research Competition (Hosted by California State Polytechnic University, Pomona, May 6th, 2000).

2000: **Rogan, J.,** First Place Remote Sensing Student Paper Award (Remote Sensing Specialty Group): Processing Multitemporal TM imagery to extract forest cover change features in Cleveland National Forest, Southern California. Presented at the Annual Meeting of the Association of American Geographers, Pittsburgh, Pennsylvania, April 4-8.

1999: **Rogan J.**, and J. Franklin. Most Analytical Poster Award: Monitoring alteration in regional forest structure using multitemporal remote sensing data. Presented at the 1999 ESRI User's Conference- San Diego Geography Showcase (Solutions with Geographic Information Systems (GIS) and the San Diego Region, San Diego, California, July

1998: **Rogan, J.** First Place Remote Sensing Student Paper Award (Remote Sensing Specialty Group): A comparison of linear and index-oriented image transformation techniques in fire-scar mapping. Presented at the Annual Meeting of the Association of American Geographers, Boston Massachusetts, March 25-28.

1997: **Rogan, J.** Best Student Poster Award: Analysis and Mapping of post-fire vegetation mortality using remote sensing and GIS. Presented at the Annual GIS/LIS Conference, Cincinnati Ohio, October 10-12.

### **External Funding**

P.I. – **J. Rogan**, 2016, Ocean Park Conservation Foundation. Assessing the conservation potential of the Amur Tiger in Northeast China. \$10,000 (in review)

P.I. – **J. Rogan**, 2016. Memorandum of Understanding between Clark University and DigitalGlobe Foundation. DigitalGlobe image archive access, \$0 (2016- 2017)

P.I. – **J. Rogan**, Co-PI –N. Cuba. Oxfam America. Geographic analysis of the territorial overlap between extractive industries and livelihoods in Honduras, \$23,000 (2016-2017)

P.I. – **J. Rogan**. Massachusetts Department of Conservation and Recreation. Assessment of tree canopy health in Worcester, \$6000 (2015-2016).

P.I. – A. Bebbington and **J. Rogan**. Oxfam America. Mapping Overlaps between Extractive Industries, Water and Agriculture in Ghana and Peru. \$49,908 (2012-2013)

PI – **J. Rogan**, Excelis Visual Solutions, ENVI Image Processing Software Educational Grant. \$10,000 (2013)

P.I. – **J. Rogan**, Co-PI – Deborah Martin. National Science Foundation. REU Site: Mapping Beetles, Trees, Neighborhoods, and Policies: A Multi-Scaled, Urban Ecological Assessment of the Asian Longhorned Beetle Invasion in New England (HERO). \$329,992 (2012-2015)

P.I. – C. Polsky, Co-PI – **J. Rogan**. National Science Foundation REU Site: Land Change and Vulnerability Studies in New England: The Human-Environmental Regional Observatory (HERO). Amount – \$354,147 (2009-2013)

P.I. – L. Schneider, Co-P.I. **J. Rogan**. Gordon and Betty Moore Foundation. Impact of Extreme Weather Events on the Forests of Yucatán. \$989, 934 (2008-2011)

P.I. – **J. Rogan**, Co-PI. C. Polsky. Henry David Thoreau Foundation. Characterizing Geomorphic Change in Central Massachusetts. \$24,762 (2007-2008)

P.I. –B.L. Turner II, Co-P.I., **J. Rogan**. NASA-LCLUC Program. Characterizing Fire Activity in the Yucatán Peninsula. \$200,000 (2006-2008)

P.I. – J.R. Eastman, Co-P.I., **J. Rogan**. USDA Animal Plant Health Inspection Service. Analysis and interpretation of hyperspectral imagery for mapping distributions of Fraxinus species and Emerald Ash Borer host trees. \$72,863 (2005-2006)

P.I. Intergraph Registered Research Laboratory (RRL) Program Award. \$116,165 (2005-2006)

P.I. J. Franklin, Co-P.I. D. Stow and **J. Rogan**. NASA-LCLUC Program. Operational monitoring of alteration in regional forest cover using multitemporal remotely sensed data. \$274,311 (2000-2003).

#### **Student Fellowships and Grants (Advisor is PI or Co-PI)**

P.I. –J.R. Eastman, Co-PI. **J. Rogan**, PhD Student Bernadette Arakwiye. NASA Earth Systems Science Fellowship. Monitoring forest degradation and restoration in a post-conflict landscape: A multidisciplinary and multiscale assessment in Western Rwanda. \$90,000 (2016-2019).

P.I. – **J. Rogan**, J., Z. Zhu, 2016, Edna Bailey Sussman Fellowship, Mapping the impact of tree planting programs in gateway cities in Massachusetts, \$6000 (2016-2017)

P.I. – **J. Rogan**, M. Andrews, 2014, Abraham Anson Memorial Scholarship. American Society for Photogrammetry and Remote Sensing, \$2000 (2014).

P.I. – **J. Rogan**, J., A. Elmes, 2015, Edna Bailey Sussman Fellowship, Juvenile tree inventory costs and benefits in the Asian Longhorned Beetle Quarantine Zone, \$6000 (2015-2016)

P.I. – **J. Rogan**, PhD Student N. Cuba. NASA Earth Systems Science Fellowship. Interannual variability in Seasonally dry tropical forest deciduousness and implications for soil carbon storage and aerosol emission in the Mexican Southern Yucatán. \$90,000 (2012-2015).

P.I. – **J. Rogan**, PhD Student S. McCauley. National Science Foundation Doctoral Dissertation Improvement Grant. A complex human-environment systems approach for land change analysis: a case study from eastern MA, USA. \$18,000 (2012-2013).

P.I. – B.L. Turner II, Co-P.I., **J. Rogan**, PhD Student Z. Christman. NASA Earth Systems Science Fellowship. Disaggregating phenological variation from discrete land cover change in the Rio Lerma-Chapala watershed, Mexico. \$80,000 (2006-2009).

### **Professional Service**

Applied Geography: Associate Editor (2016-present).

Canadian Journal of Remote Sensing: Associate Editor (2006-present).

Professional Geographer: Editorial Board (2004-2008)

Vice-Chairperson of the Association of American Geographers GIScience Specialty Group (2012-2013)

Chairperson of the Association of American Geographers GIScience Specialty Group (2013-2014)

**Book Chapters (italics denote student author)**

Schneider, L., **J. Rogan**, and B. Schmook (2016). Relacion de huracanes e incendios en bosques fragmentados de la region sur de la peninsula de Yucatan, Mexico:ejemplo de las sinergias en sistemas socio-ecologios. In, J. C. Postigo and K. R. Young (eds.). *Naturaleza y Sociedad: Perspectivas Socio-Ecológicas sobre Cambios Globales en América Latina*. Instituto de Estudios Peruanos, DESCO, INTE-PUCP, Lima, 444 p.

**Rogan, J.**, and *N. Mietkiewicz* (2015). Land cover change. In *Remote Sensing Handbook*, Edited by P. S. Thenkabail. CRC Press, 2200 pp.

Márdero, S., B. Schmook, *Z. Christman*, E. Nickl, L. Schneider, **J. Rogan**, and D. Lawrence (2014) Precipitation Variability and Adaptation Strategies in the Southern Yucatán Peninsula, Mexico: Integrating Local Knowledge with Quantitative Analysis. In *International Perspectives on Climate Change*, Edited by W. Leal Filho, F. Alves, S. Caeiro, and U.M. Azeiteiro, Springer, 299 pp.

Miller, J., and **J. Rogan** (2007). Using GIS and remote sensing for ecological modeling and monitoring. In *Integration of GIS and Remote Sensing*, V. Mesev, (Ed), Wiley and Sons, 312 pp.

**Rogan, J.** and J. Miller (2006). GIS data in mapping of forest disturbance and change. In, *Forest Disturbance and Spatial Pattern*. M. Wulder and S. Franklin (Eds), CRC/Lewis, 246 pp.

Kasischke, E.S., S. Goetz, M.C. Hansen, M. Ozdogan, **J. Rogan**, S. L. Ustin, and C.E. Woodcock (2004). Temperate and Boreal Forests. In *Manual of Remote Sensing Volume 4: Remote Sensing for Natural Resource Management and Environmental Monitoring*, S. Ustin (Editor). John Wiley & Sons, 848 pages.

Franklin, J., **J. Rogan**, S.R. Phinn and C.E. Woodcock (2003). Rationale and Conceptual Framework for Classification Approaches to Assess Forest Resources and Properties. In *Remote Sensing of Forest Environments*. M. Wulder and S. Franklin (Eds), Springer, 515 pp.

### **Journal Special Issue Editor**

Extractive Industries and Livelihoods; Edited by Anthony Bebbington, *Nicholas Cuba* and **John Rogan**. Applied Geography Volume 54, Pages 1-284 (October 2014)

### **Manuscripts in Preparation (italics denote student author)**

*Millones, M., J. Rogan, B.L. Turner II, D.G. Griffith, R.C. Harris and B. Parmentier.*

Fire data as proxy for land change and persistence in the Mexican Yucatán Peninsula. To be submitted to GIS and Remote Sensing in June 2016

**Rogan, J., A.J. Shatz, A. Elmes L. Ziemer, K. Frey, R.G. Pontius and C. Polsky.**

Thirty years of land cover conversion in Massachusetts: Change analysis of deforestation and urban sprawl trends using Landsat-derived land cover maps. To be submitted to Land Use Science in June 2016

### **Peer Reviewed Publications (italics denote student author)**

*Hisabayashi, M., and J. Rogan* (in-review). Quantifying shoreline change in Funafuti Atoll, Tuvalu using a time series of QuickBird and WorldView data. Photogrammetry and Remote Sensing.

*Kappel, A., R.T. Trotter, J. Rogan J, M. Keena, and C. Williams* (in-review). Mapping of the Asian Longhorned Beetle's Time to Maturity and Risk to Invasion at Contiguous United States Extent. Biological Invasions.

*Danko, J., V. DeLauer, D. Martin and J. Rogan* (2016). Asian Longhorned Beetle narrative timeline for the Worcester outbreak. Northeastern Geographer (accepted and forthcoming).

*Andrews, M., J. Rogan, D.G. Martin, A. Elmes, F. Sangermano, C.A. Williams and B. Weil* (2016). Mapping land surface temperature variability across the urban gradient in Worcester,

Massachusetts using in situ thermochrons and Landsat- 8 Thermal Infrared Sensor (TIRS) data  
GIScience & Remote Sensing (accepted and forthcoming).

**Rogan, J.**, A. Caiazzo, Y. Ogneva-Himmelberger, C.E. Woodcock, S. Ratick, Z. Christman and L. Young (2016). Pre-dating and post-dating land-cover maps with Landsat and Aster imagery using a Kauth-Thomas Change Index. GIScience & Remote Sensing (accepted and forthcoming).

Christman, Z., **J. Rogan**, J. R. Eastman, and B.L. Turner, II (2016). Distinguishing land change from natural variability and uncertainty in central Mexico with MODIS EVI, TRMM precipitation, and MODIS LST data. Remote Sensing (accepted and forthcoming).

Patel, K., **J. Rogan**, N. Cuba, and A.J. Bebbington (2016). Evaluating conflict surrounding mineral extraction in Ghana: Assessing the spatial interactions of large and small-scale mining. The Extractive Industries and Society, 3(2), 450-463.

**Rogan, J.**, T.M. Wright, J. Cardille, H. Pearsall, Y. Ogneva-Himmelberger, R. Riemann, K. Riitters and K. Partington (2016). Forest fragmentation in Massachusetts, USA: a town-level assessment using Morphological spatial pattern analysis and affinity propagation, GIScience & Remote Sensing, DOI:10.1080/15481603.2016.1141448

Turner, B.L., J. Geoghegan, D. Lawrence, C. Radel, B. Schmook, C. Vance, S. Manson, E. Keys, D. Foster, P. Klepeis, H. Vester, **J. Rogan**, R. Roy Chowdhury, L. Schneider, R. Dickson, and Y. Ogneva-Himmelberger (2016). Current Opinion in Environmental Sustainability, 19, 18-29.

Bebbington, J. Bury, N. Cuba and **J. Rogan** (2015). Mining, risk and climate resilience in the 'other' Pacific: Latin American lessons for the South Pacific. Asia Pacific Viewpoint, 56(2) 189–207.

Broderick, D.E., K.E. Frey, **J. Rogan**, H.D. Alexander, and N.S. Zimov (2015). Estimating upper soil horizon carbon stocks in a permafrost watershed of Northeast Siberia by integrating



field measurements with Landsat-5 TM and WorldView-2 satellite data. GIScience & Remote Sensing, 52 (2), 131-157.

*Cantor, A., V. DeLauer, D. Martin and J. Rogan* (2015). Training interdisciplinary “wicked problem” solvers: applying lessons from HERO in community-based research experiences for undergraduates, Journal of Geography in Higher Education, 39:3, 407-419, DOI: 10.1080/03098265.2015.1048508

Christman, Z., **J. Rogan**, J. R. Eastman and B. L. Turner II (2015). Quantifying uncertainty and confusion in land change analyses: a case study from central Mexico using MODIS data, GIScience & Remote Sensing, DOI 10.1080/15481603.2015.1067859

*Cunningham, S., J. Rogan, D. Martin, V. DeLauer, S. McCauley and A. Shatz* (2015). Mapping land development through periods of economic bubble and bust in Massachusetts using Landsat time series data, GIScience & Remote Sensing, 52:4, 397-415.

*Ghimire, B., Williams, C. A., Collatz, G. J., Vanderhoof, M., Rogan, J., Kulakowski, D. and Masek, J. G.* (2015), Large carbon release legacy from bark beetle outbreaks across Western United States. Global Change Biology. 21: 3087–3101. doi:10.1111/gcb.12933

Mardero, S., B. Schmook, C. Radel, Z. Christman, D. Lawrence, M. Millones, E. Nickl, **J. Rogan** and L. Schneider (2015). Smallholders’ adaptations to droughts and climatic variability in southeastern Mexico, Environmental Hazards, 14:4, 271-288, DOI: 10.1080/17477891.2015.1058741

*McCauley, S.M., J. Rogan, J.T. Murphy, B.L Turner II, and S. Ratick* (2015). Modeling the sociospatial constraints on land-use change: the case of periurban sprawl in the Greater Boston region. Environment and Planning B: Planning and Design 42 (2), 221-241

*Shatz, A.J., J. Rogan, F. Sangermano, J. Miller and A. Elmes* (2015). Modeling the risk of spread and establishment for Asian longhorned beetle (*Anoplophora glabripennis*) in Massachusetts from 2008-2009, Geocarto International, DOI: 10.1080/10106049.2015.1086901

Emel, J., *J. Plisinski* and **J. Rogan**, (2014). Monitoring geomorphic and hydrologic change at mine sites using satellite imagery: The Geita Gold Mine in Tanzania. *Applied Geography*, 54, 243-249.

Bebbington, A., *Cuba, N.*, and **Rogan, J.**, (2014). Visualizing competing claims on resources: approaches from extractive industries research, *Applied Geography*, 52, 55-56.

*Cuba, N.*, Bebbington A, **Rogan J.**, and *Millones M.*, (2014). Extractive industries, livelihoods and natural resource competition: mapping overlapping claims in Peru and Ghana, *Applied Geography*, 54, 250-261.

*Elmes, A., J-G. Yarlequé Ipanaqué, J. Rogan, N. Cuba,* and A. Bebbington (2014). Mapping licit and illicit mining activity in the Madre de Dios region of Peru. *Remote Sensing Letters*, 5 (10): 882-891.

*Palmer, S., D. Martin, V. DeLauer,* and **J. Rogan** (2014). Vulnerability and adaptive capacity in response to the Asian Longhorned Beetle infestation in Worcester, Massachusetts. *Human Ecology* 42 (6), 965-977.

Liu, L., E.E. Jafarov, K.M. Schaefer, B.M. Jones, H.A. Zebker, C.A. Williams, **J. Rogan**, and T. Zhang (2014). InSAR detects increase in surface subsidence caused by an Arctic tundra fire, *Geophysical Research Letters*, 41, 3906–3913, doi:10.1002/2014GL060533.

*Danko J., J. Rogan* and D. Kulakowski, (2014). Mapping Burn Severity using the Composite Burn Index in an Oak Savannah in Central Massachusetts, *The Geographical Bulletin*, 55: 36-48

*Runfola, D., T. Hamill, R.G. Pontius Jr, J. Rogan, N. Giner, A. Decatur,* and S. Ratick (2014). Using Fine Resolution Orthoimagery and Spatial Interpolation to Rapidly Map Turf Grass in Suburban Massachusetts, *International Journal of Geospatial and Environmental Research*, 1(1): Article 4.

Cheng, D., **J. Rogan**, L. Schneider, and M. Cochrane (2013). Evaluating MODIS active fire products in subtropical Yucatán forest. Remote Sensing Letters 4 (5), 455-464.

Cuba, N., **J. Rogan**, Z. Christman, C.A. Williams, L. Schneider and D. Lawrence (2013). Modelling dry season deciduousness in Mexican Yucatán forest using MODIS EVI data (2000-2011), GIScience & Remote Sensing, DOI:10.1080/15481603.2013.778559.

Eastman J.R, Sangermano F., E.A. Machado, **Rogan J.**, and Anyamba A, (2013). Global Trends in Seasonality of Normalized Difference Vegetation Index (NDVI), 1982–2011, Remote Sensing, 5(10), 4799-4818

Hostetler A.E, **Rogan J.**, Martin D, DeLauer V and O’Neil-Dunne J, (2013). Characterizing tree canopy loss using multi-source GIS data in Central Massachusetts, USA. Remote Sensing Letters, 4 (12), 1137.

Kolden, C.A., and **J. Rogan** (2013). Mapping wildfire burn severity in the Arctic tundra from downsampled MODIS data. Arctic, Antarctic, and Alpine Research 45 (1), 64-76

McGroddy M., Lawrence D., **Rogan J.**, and Schmook B., (2013). Damage patterns after Hurricane Dean in the southern Yucatán: Has human activity resulted in more resilient forests? Forest Ecology and Management, 15, 812-820.

O’Neal, K. J., Loboda, T. V., **Rogan, J.**, and Yool, S., (2013). Woody plant encroachment in semi-arid Madrean grasslands of southeastern Arizona, The Southwestern Geographer, 16, 24-36.

**Rogan J.**, Ziemer M, Ratick S, Martin D, Cuba N, and DeLauer V. (2013). The impact of tree cover loss on land surface temperature: A case study of central Massachusetts using Landsat Thematic Mapper Thermal Data. Applied Geography, 45 (12), 49.

Rossi E., **Rogan J.**, and Schneider L, (2013). Mapping forest damage in northern Nicaragua after Hurricane Felix using MODIS enhanced vegetation index data GIScience & Remote Sensing (50) 4, 67-73.

Schwert B., **Rogan J.**, Giner N.M, Ogneva-Himmelberger Y, Blanchard S, and Woodcock C, (2013). A comparison of support vector machines and manual change detection for land-cover map updating in Massachusetts, USA, Remote Sensing Letters (4)9, 882-890.

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

Vanderhoof, M.E, Williams C, and Ghimire B, **Rogan J.** (2013). Impact of mountain pine beetle outbreaks on forest albedo and radiative forcing as derived from MODIS, Rocky Mountains, USA, Journal of Geophysical Research – Biogeosciences, 118: 1-11, doi:10.1002/jgrg.20120.

Brenner, J. C., Z. Christman, and **J. Rogan** (2012). Segmentation of Landsat Thematic Mapper Imagery Improves Buffelgrass (*Pennisetum ciliare*) Pasture Mapping in the Sonoran Desert of Mexico. Applied Geography, 34: 569–575.

Christman, Z., and **J. Rogan** (2012). Error propagation in raster data integration: impacts on landscape composition and configuration. Photogrammetric Engineering and Remote Sensing, 78(6): 617-624.

Ghimire, B., **J. Rogan**, V. F. Rodriguez-Galiano, P. Panday and N. Neeti (2012). An evaluation of bagging, boosting, and random forests for land-cover classification in Cape Cod, Massachusetts, USA. GIScience & Remote Sensing 49 (5): 623-643.

Giner, N.M., **Rogan, J.**, (2012). A comparison of Landsat ETM+ and High-Resolution Aerial Orthophotos to Map Urban/Suburban Forest Cover in Massachusetts, USA. Remote Sensing Letters 3(8) pp. 667-676.

Neeti, N., **J. Rogan**, Z. Christman, J. R. Eastman, M. Millones, L. Schneider, E. Nickl, B. Schmook, B. L. Turner II and B. Ghimire. (2012). Mapping seasonal trends in vegetation using AVHRR-NDVI time series in the Yucatán Peninsula, Mexico. Remote Sensing Letters 3 (5): 433-442.

McCauley, S., **Rogan, J.**, and Miller, J. (2012). Modeling Forest Species Distributions in a Human- Dominated Landscape in Northeastern, USA. International Journal of Applied Geospatial Research, 4(3), 49-57.

Mardero, S., E. Nickl, B. Schmook, L. Schneider, **J. Rogan**, Z. Christman, and D. Lawrence (2012). Sequías en el Sur de la Península de Yucatán: Análisis de la variabilidad anual y estacional de la precipitación. Investigaciones Geográficas, 78: 19-33.

Rodriguez-Galiano, V., Ghimere, B., **Rogan, J.**, Chica-Olmo, M., and Rigol-Sanchez, J.P. (2012). An assessment of the effectiveness of a random forest classifier for land-cover classification. ISPRS Journal of Photogrammetry and Remote Sensing, 67: 93-104.

Taus, A., Ogneva-Himmelberger, Y., and **Rogan, J.**, (2012), Conversion to Organic Farming in the Continental United States: A Geographically Weighted Regression Analysis. Professional Geographer, 65(1): 87-102.

Woodcock D.W., **Rogan, J.**, Blanchard S. (2012) Accelerating Anthropogenic Land Surface Change and the Status of Pleistocene Drumlins in New England. PLoS ONE 7(10): e46702. doi:10.1371/journal.pone.0046702

Zhu, Z., Woodcock, C., **Rogan, J.**, and Kelldorfer, (2012), Assessment of spectral, polarimetric, temporal, and spatial dimensions for urban and peri-urban land cover classification using Landsat and SAR data. Remote Sensing of Environment, 117:72-82.

Fortier, J., **Rogan, J.**, Woodcock, C., *Runfola, D.M.*, (2011). Utilizing temporally invariant calibration sites to classify multiple dates of satellite imagery. Photogrammetric Engineering and Remote Sensing, 77(2), 181-189.

Griffin, C. G., K. E. Frey, **J. Rogan**, and R. M. Holmes (2011), Spatial and interannual variability of dissolved organic matter in the Kolyma River, East Siberia, observed using satellite imagery, Journal of Geophysical Research, 116, G03018, doi:10.1029/2010JG001634.

Griffin, S., **Rogan, J.**, *Runfola, D.M.*, (2011). Application of Spectral and Environmental Variables to Map the Kissimmee Prairie Ecosystem using Classification Trees. GIScience & Remote Sensing, 48(3).

Vandecar, K.L., D. Lawrence, D. Richards, L. Schneider, **J. Rogan**, B. Schmook, and H. Wilbur (2011). High mortality for rare species following hurricane disturbance in the Southern Yucatán, Biotropica, 43(6): 676-684.

**Rogan, J.**, L. Schneider, Z. Christman, M. Millones, D. Lawrence, and B Schmook (2011). Hurricane disturbance mapping using MODIS EVI data in the southeastern Yucatán, Mexico. Remote Sensing Letters, 2 (3), 259-267.

Schmook B., Palmer Dickson R., *Sangermano F.*, Vadjunec J.M., Eastman J.R., **Rogan J.** (2011). A step-wise land-cover classification of the tropical forests of the Southern Yucatán, Mexico. International Journal of Remote Sensing, 32(4): 1139-1164.

**Rogan, J.**, N. Bumbarger, D. Kulakowski, Z. Christman, D.M. Runfola, and S.D Blanchard (2010). Improving forest type discrimination with mixed lifeform classes using fuzzy classification thresholds informed by field observations. Canadian Journal of Remote Sensing, 36(6): 699-708.

*Versluis, A., and J. Rogan* (2010). Mapping land-cover change in a Haitian watershed using a combined spectral mixture analysis and classification tree procedure. Geocarto International 25 (2), 85-103

*Ghimire, B., J. Rogan, and J. Miller* (2010). Contextual land-cover classification: incorporating spatial dependence in land-cover classification models using random forests and the Getis statistic. Remote Sensing Letters, 1 (1), 45-54

*Blanchard, S., J Rogan, and D.W. Woodcock* (2010). Geomorphic change analysis using ASTER and SRTM digital elevation models in central Massachusetts, USA. GIScience & Remote Sensing, 47 (1), 1-24

*Barrett, K., J. Rogan, and J.R. Eastman* (2009). A case study of carbon fluxes from land change in the Southwest Brazilian Amazon. Journal of Land Use Science, 4 (4), 233-248

*Wulder, M.A., J.C. White, F. Alvarez, T. Han, J. Rogan, and B. Hawkes* (2009). Characterizing boreal forest wildfire with multi-temporal Landsat and LIDAR data. Remote Sensing of Environment, 113 (7), 1540-1555.

*Václavík, T., and J. Rogan* (2009). Identifying trends in land use/land cover changes in the context of post-socialist transformation in central Europe: a case study of the greater Olomouc region, Czech Republic. GIScience & Remote Sensing, 46 (1), 54-76

*Lippitt, C.D., J. Rogan, Z. Li, J. R. Eastman, and T.G Jones* (2008). Mapping Selective Logging in Mixed Deciduous Forest. Photogrammetric Engineering & Remote Sensing, 74(10): 1201-1211.

**Rogan, J., J. Franklin, D. Stow, J. Miller, C. Woodcock, and D. Roberts** (2008). Mapping land-cover modifications over large areas: A comparison of machine learning algorithms. Remote Sensing of Environment, 112 (5), 2272-2283.

Lippitt, C.D., **J. Rogan**, J. Toledano, F. Sangermano, J. R. Eastman, V. Mastro, and Alan Sawyer (2008). Incorporating anthropogenic variables into a species distribution model to map gypsy moth risk. Ecological Modelling, 210(3): 339-350.

Polsky, C., **Rogan, J.**, Pontius, R.G., and Turner B.L. II, (2007). Undergraduate GIScience research at Clark University: The HERO program. Council on Undergraduate Research Quarterly, 27, 124–130.

Stow, D., *Petersen, A.*, **Rogan, J.**, and Franklin, J. (2007). Mapping Burn Severity of Mediterranean-Type Vegetation Using Satellite Multispectral Data. GIScience & Remote Sensing, 44 (1): 1-23.

Treitz, P. and **Rogan, J.** (2004). Remote sensing for mapping and monitoring land cover and land use change: An introduction. Progress in Planning, 61 (4): 269-279.

**Rogan, J.**, and Chen, D.M. (2004). Remote sensing technology for mapping and monitoring land-cover and land-use change. Progress in Planning, 61 (4): 301-325.

Rashed, T., Weeks, J.R., Roberts, D., **Rogan, J.**, and Powell, R. (2003). Measuring the physical composition of urban morphology using multiple endmember spectral mixture models. Photogrammetric Engineering and Remote Sensing, 69(9), 1011-1020.

**Rogan, J.**, Miller, J., Stow, D.A., Franklin, J., Levien, L., and Fischer, C. (2003). Land-Cover Change Monitoring with Classification Trees Using Landsat TM and Ancillary Data. Photogrammetric Engineering and Remote Sensing, 69(7), 793-804.

**Rogan, J.**, Franklin, J., and Roberts, D.A. (2002). A comparison of methods for monitoring multitemporal vegetation change using Thematic Mapper imagery. Remote Sensing of Environment, 80, 143-156.



**Rogan, J.** and Franklin, J. (2001). Mapping wildfire burn severity in southern California forests and shrublands using Enhanced Thematic Mapper imagery. Geocarto International, 16(4), 89-99.

**Rogan, J.** and Yool, S.R. (2001). Mapping fire-induced vegetation depletion in the Peloncillo Mountains, Arizona and New Mexico. International Journal of Remote Sensing, 22(16), 3101-3121.

Franklin, J., Simons, D.K., Beardsley, D., **Rogan, J.**, and Gordon, H. (2000). Evaluating errors in a digital vegetation map with forest inventory data and accuracy assessment using fuzzy sets. Transactions in GIS, 5(4), 285-304.

### **Conference Proceedings**

*Cuba, N.*, and **J. Rogan** (2014). Modelling tropical dry forest deciduousness using spatially downscaled TRMM data. Proceedings of the Geoscience and Remote Sensing Symposium (IGARSS), 2014 IEEE International Conference, Quebec City, QC, Canada, 13 Jul - 18 Jul 2014. <ftp://ftp.legos.obs-mip.fr/pub/tmp3m/IGARSS2014/pdfs/0001057.pdf>

*Christman, Z.*, and **J. Rogan** (2010). Raster data transformation for land change analyses: Combined impacts of reprojecting and rescaling categorical maps on landscape composition and configuration. In Tate, N. and P. Fisher (eds.) 2010. Accuracy 2010—Proceedings of the Ninth International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences, 20-23 July, 2010. Leicester, UK. <http://www.spatial-accuracy.org/Accuracy2010>

*Pangelova, B.*, and **J. Rogan** (2006). Land cover and land use change detection and analyses in Plovdiv, Bulgaria, between 1986 and 2000. Conference proceedings of the American Society for Photogrammetry and Remote Sensing Annual Conference. Reno, Nevada May 1-5, 2006. <ftp://ftp.ecn.purdue.edu/jshan/proceedings/asprs2006/files/0110.pdf>

*Kuzera, K.*, **J. Rogan** and J.R. Eastman (2005). Monitoring vegetation regeneration and deforestation using change vector analysis: Mt. St. Helens study area. Conference proceedings

of the American Society for Photogrammetry and Remote Sensing 2005 Annual Conference. Baltimore MD. 7-11 March 2005, 8 p.

[http://www.geog.ucsb.edu/~kuzera/kuzera\\_rogan\\_eastman\\_1.pdf](http://www.geog.ucsb.edu/~kuzera/kuzera_rogan_eastman_1.pdf)

*O'Neal, K., J. Rogan* and S.R. Yool (2005). Monitoring Post-Fire Vegetation Regeneration in a Madrean Ecosystem. Conference proceedings of the 5th Conference on Research and Resource Management in the Southwestern Deserts, Tucson, Arizona. May 11-15, 2004

[http://www.fs.fed.us/rm/pubs/rmrs\\_p036/rmrs\\_p036\\_533\\_535.pdf](http://www.fs.fed.us/rm/pubs/rmrs_p036/rmrs_p036_533_535.pdf)

*Prah, J., J. Rogan*, and J. Miller (2005). Evaluating image thresholding techniques for land cover modification mapping. Conference proceedings of the American Society for Photogrammetry and Remote Sensing 2005 Annual Conference. Baltimore MD. 7-11 March 2005, 8 p.

<ftp://ftp.ecn.purdue.edu/jshan/proceedings/asprs2005/Files/0142.pdf>

**Rogan, J.**, K. O'Neal, and S.R. Yool (2005). Analysis of landscape fragmentation in the Peloncillo Mountains in relation to wildfire, prescribed burning, and cattle grazing. Conference proceedings of the 5th Conference on Research and Resource Management in the Southwestern Deserts, Tucson, Arizona. May 11-15, 2004

[http://www.fs.fed.us/rm/pubs/rmrs\\_p036/rmrs\\_p036\\_256\\_259.pdf](http://www.fs.fed.us/rm/pubs/rmrs_p036/rmrs_p036_256_259.pdf)

**Rogan, J.**, J. Miller, D. Stow, J. Franklin, L. Levien, and C. Fischer (2002). Land cover change monitoring using multitemporal Landsat TM and ancillary data. Ninth Biennial Forest Service Remote Sensing Conference (RS2002). San Diego, CA, 8-12 April.

**Rogan, J.**, J. Franklin, D. Stow, L. Levien, and C. Fischer (2001). Toward operational monitoring of forest cover change in California using multitemporal remote sensing data. Geoscience and Remote Sensing Symposium, 9-13 July, Sydney Australia.

**Rogan, J.**, and J. Franklin (2001). Mapping burn severity in southern California using spectral mixture analysis. Geoscience and Remote Sensing Symposium, 9-13 July, Sydney Australia

## **Popular Press/Media**

Worcester Telegram and Gazette, “College Town: Satellite imagery tracks tree growth in Clark study”, July 24, 2016

<http://www.telegram.com/news/20160714/clark-students-track-survival-rate-of-trees-planted-after-beetle-scourge-in-worcester>

Worcester Telegram and Gazette, “Clark students track survival rate of trees planted after beetle scourge in Worcester”, July 14, 2016

<http://www.telegram.com/news/20160724/college-town-satellite-imagery-tracks-tree-growth-in-clark-study>

Worcester Telegram and Gazette, “Real-world research”, April 29, 2015

<http://www.telegram.com/article/20150429/NEWS/304299992/101020>

The Hank Stolz Experience Charter Ch-3 TV: “Tree Loss Mapping at Clark University”  
Deborah Martin and John Rogan, January 15<sup>th</sup> 2014.

Worcester Telegram and Gazette, Deborah Martin and John Rogan (Op-ed), “Trees under multiple threats”, May 9<sup>th</sup> 2013.

<http://www.telegram.com/article/20130521/NEWS/105219947/0>

New England Cable News (NECN) Worcester News Tonight/Charter Ch-3 TV: “Clark University gets grant to battle Asian Longhorned Beetle”, June 15<sup>th</sup> 2012

Worcester Telegram and Gazette “Clark gets grant to study Asian Longhorned beetle”, June 5<sup>th</sup>, 2012

Worcester Telegram and Gazette, “Ice Havoc”, December 11<sup>th</sup> 2009

<http://www.telegram.com/article/20091211/NEWS/912110425>

The Landmark newspaper, “2008 New England ice storm”, December 1<sup>st</sup> 2009

The Christian Science Monitor, “California fires show limits of firefighting”, October 29<sup>th</sup> 2003  
<http://www.csmonitor.com/2003/1029/p02s01-usgn.html>

The Canberra Times, “California Wildfires”, November 20<sup>th</sup> 2003.

Earth Observation Magazine (2002). Rogan, J., D. Stow, J. Franklin, and J. Miller (2002).  
“Using multitemporal remote sensing and GIS to monitor land cover change in California”.

### **Invited external expert review panels**

National Science Foundation Science, Engineering and Education for Sustainability Fellows review panelist, Washington DC, February 6-8, 2014

National Science Foundation Cyber-Innovation for Sustainability Science and Engineering review panelist (CyberSEES), Washington DC, June 26-27, 2014.

USDA Agricultural and Food Research Initiative (AFRI), Sustainable Bioenergy and Water review panelist, Washington DC July 15-17, 2013

National Science Foundation Hubbard Brook LTER site review panelist, Hubbard Brook (VT), June 26-28, 2013

USDA Environmental Implications of Direct and Indirect Land use Change Priority within the Agricultural and Food Research Initiative (AFRI), Sustainable Bioenergy Research Program review panelist, Washington DC April 23-2, 2012.

Landsat- 8 Operational Land Imager and Data Continuity Mission Science Team Panelist. U.S. Geological Survey Earth Resources Observation and Science (EROS) Center, Sioux Falls, South Dakota, June 14-15, 2012.

U.S. Geological Survey Land Cover Trends Research Project peer-review Panelist. Washington DC: February 19-21, 2007.

**Reviewer for professional scientific journals (# times)**

Annals of the Association of American Geographer (8), Applied Geography (6), Canadian Journal of Remote Sensing (13), Conservation and Society (1), Ecological Modelling (6), Forest Ecology (4), Geocarto International (9), GIScience & Remote Sensing (21), International Journal of Remote Sensing (11), International Journal of Wildland Fire (8), Photogrammetric Engineering and Remote Sensing (15), Professional Geographer (17), Remote Sensing Journal (3), Remote Sensing of Environment (20), World Development (1).

**Presenter Invited by Universities and Research Centers**

Rogan, J., *N. Cuba*, and A. Bebbington. Oxfam America Washington D.C.: “Geographies of Conflict: Mapping Overlaps Between Extractive Industries and Agricultural Land Uses in Ghana and Peru” (March 27, 2014).

<http://www.oxfamamerica.org/press/overlaps-between-oil-gas-and-agriculture-shed-light-on-social-conflicts-and-land-competition/>

Rogan, J., Department of Geography and Geology West Virginia University, Morgantown WV: “Tropical Wildfire Dynamics and Land-use in southern Mexico” (September 4<sup>th</sup> 2011)

Rogan, J., Department of Geography, Rutgers University “Remote sensing of landscape change” (Sept 19<sup>th</sup> 2010)

Rogan, J., Department of Geography and the Environment, UT Austin, Austin TX: “Hurricane damage assessment using field plots and MODIS EVI data” (May 5<sup>th</sup> 2009).

Rogan, J., School of Natural Resources, University of California Berkeley, CA: “Tropical Fire: Results from the Southern Yucatán Peninsular Region” (March 4<sup>th</sup> 2008)

Rogan, J., GIS School of Excellence, South Dakota State University, Brookings, SD: “Mapping dry season deciduousness in the Yucatán Peninsula Mexico using multitemporal MODIS data” (September 3<sup>rd</sup> 2008)

Rogan, J., Department of Geography, Oklahoma State University, Norman, OK: “Large area mapping and monitoring using time series Landsat imagery” (October 12<sup>th</sup> 2008).

Department of Geography, San Diego State University, San Diego CA: “Leaves to landscapes: Mapping land cover through space and time” (November 2<sup>nd</sup> 2006).

Department of Geography, University of British Columbia, Victoria, Canada: “Large area monitoring using remotely sensed data” (March 8<sup>th</sup> 2006).

Department of Geophysics, Yale University, CT “A survey of change detection techniques for landscape monitoring” (September 21<sup>st</sup> 2005).

Department of Geography, University of Arizona, Tucson AZ: “Application of machine learning classifiers to complex land cover change mapping scenarios” (February 18<sup>th</sup> 2004).

Harvard Forest Research Center, Petersham, MA: “Proof of Concept: A Proposal to Map Land Cover Modifications in New England Using Remote Sensing Data” (November 5<sup>th</sup> 2003).

Rogan, J., J. Franklin and D. Stow. Operational monitoring of land cover change in California. Presented at the NASA Land Cover/ Land Use Change Annual Meeting, University of Maryland, (October 28<sup>th</sup>, 2001).

Rogan, J. Department of Arid Lands, University of Arizona, Tucson, AZ: “Mapping and monitoring forest resources using multitemporal remote sensing data” (October 5<sup>th</sup> 2001).

Rogan, J., J. Franklin and D. Stow. Operational monitoring of land cover change in California. Presented at the NASA Land Cover/ Land Use Change Annual Meeting, Bethesda, Maryland, (October 16<sup>th</sup>, 2001).

### **Presenter Invited by High Schools**

Worcester technical High School, Worcester Technical High School “The Importance of Trees in Urban Environments” (two talks to the Environmental Science Program). (March 10<sup>th</sup> 2015)

### **Conference Presentations (lead presenter only)**

Rogan, J. (2014). The Waldo Tobler Distinguished Lecture in GIScience - Chair, Organizer. Annual Meeting of the Association of American Geographers. April 4-12, Tampa, FL.

Rogan, J., N. Cuba and A. Bebbington (2012). Session organizer and presenter. Mapping Extractive Industries and Livelihoods I, and II. Annual Meeting of the Association of American Geographers. April 9-13, Los Angeles, CA.

Rogan, J. (2011). The right way to assess land change using remotely sensed data. Annual Meeting of the Association of American Geographers. April 12-16, Seattle, WA.

Rogan, J. (2010). Assessment of Damage resulting from Hurricane Dean in the Yucatán Peninsula, Mexico, and its Connection to Fire and Land Cover Change. Global Land Project Meeting. October 17-19, Phoenix AZ.

Rogan, J. (2010). Assessment of Hurricane Damage in the Yucatán Peninsula, Mexico, and its Connection to Fire and Land Cover Change. Annual Meeting of the Association of American Geographers. April 14-18, Washington DC.

Rogan, J. (2009). Assessing Environmental Disturbance to Forest Ecosystems: Linking regional approaches to place based research. Annual Meeting of the Association of American Geographers. March 22-27, Las Vegas, NV.

Rogan, J., M. Millones, C. Kolden, L. Schneider and B. Turner, II (2008). Characterizing fire dynamics in the Southern Yucatán Region using MODIS Active Fire (MOD-4) Data. Annual Meeting of the Association of American Geographers. April 15-19, Boston MA.

Rogan, J., and D. Roy, 2006, Use of Classification Generalization to Construct a historical burn severity database in Southern California. Presented at the Third International Fire Ecology and Management Congress, November 13-17, San Diego CA.

Rogan, J., 2005, Applications of remote sensing technology to mapping and analysis of fire hazard and fire effects. Annual Meeting of the Association of American Geographers, April 5-9, Philadelphia, PA.

Rogan, J. 2005, Generalization of land cover mapping methods in mixed deciduous forest. Association of Photogrammetry and Remote Sensing. March 7-11, Baltimore, MD

Rogan, J., J. Franklin, J. Miller, and D.A. Stow (2004). Assessing uncertainty in large area maps generated for land cover change monitoring. The Fifteenth Annual Conference of The International Environmetrics Society and The Sixth International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences. Portland, Maine, June 28 - July 1.

Rogan, J., J. Franklin, and D.A. Stow (2004). Mapping land cover modifications over large areas: A comparison of machine learning techniques. Annual Meeting of the Association of American Geographers, March 14-19, Philadelphia, PA.

Rogan, J., K.J. O'Neal, and S.R. Yool (2004). Analysis of twenty years of landscape fragmentation in the Peloncillo Mountains in relation to wildfire, prescribed burning and cattle grazing. Biodiversity and Management of the Madrean Archipelago II: Connecting Mountain Islands and Desert Seas, May 11-14, Tucson AZ.

Rogan, J., and S.R. Yool (2004). Measuring and Monitoring Responses of Madrean Ecosystems to Management Variability: Translating Fire Research into Local Expertise for Ecosystem Sustainability. Biodiversity and Management of the Madrean Archipelago II: Connecting Mountain Islands and Desert Seas, May 11-14, Tucson AZ.



Rogan, J., P. Kyriakidis, J. Franklin, D. Stow (2002). Evaluation of thematic change map classification accuracy using geostatistical methods. Presented at GIScience 2002 Second International Conference on Geographic Information Science, Boulder, Colorado, USA, September 25-28

Rogan, J., Franklin, J., and Stow, D., (2002). Operational Monitoring of land Cover Change in California. Presented at the 22nd Annual ESRI International User Conference, San Diego, California, July 8th-12th.

Rogan, J., J. Franklin and D. Stow (2002). Mapping disturbances in forest and shrub cover in southern California using remote sensing data. Presented at Santa Margarita Ecological Reserve Station Spring Celebration Showcase, Santa Margarita Ecological Reserve, Riverside County, California, April 27th.

Rogan, J. Franklin, D. Stow, L. Levien and C. Fischer (2002). Operational detection of changes in forest and shrub cover in California using multitemporal Landsat data. Presented at the Ninth Biennial Remote Sensing Applications Conference, April 8th-April 12th.

Rogan, J., J. Franklin, D. Stow, J. Miller (2002). A comparison of classification techniques for mapping multitemporal change in forest cover using Thematic Mapper imagery. Presented at the Ninth Biennial Remote Sensing Applications Conference, April 8th-April 12th.

Rogan, J., D. Stow, J. Franklin, L. Levien and C. Fischer (2002). Evaluating the utility of a space-varying haze equalization algorithm in multitemporal remote sensing applications. Presented at the Ninth Biennial Remote Sensing Applications Conference, April 8th-April 12th.

Rogan, J., and Franklin, J. (2002). Comparison of classification techniques for mapping multitemporal forest cover change using Thematic Mapper imagery. Presented at the Annual Meeting of the Association of American Geographers, Los Angeles, California, March 17-23.

Rogan, J., and J. Franklin (2000). Processing Multitemporal TM imagery to extract forest

cover change features in Cleveland National Forest, Southern California. Presented at the Annual Meeting of the Association of American Geographers, Pittsburgh, Pennsylvania, April 4-8.

Rogan, J. (2000). Mapping Forest Cover Change Using Multitemporal Spectral Mixture Analysis: a Pilot Study in Southern California. Presented at the California State University 14th Annual Student Research Competition (Hosted by California State Polytechnic University, Pomona, May 6<sup>th</sup>).

Rogan, J., (2000). Processing Multitemporal TM imagery to extract forest cover change features in Cleveland National Forest, Southern California. Presented at the Annual Meeting of the Association of American Geographers, Pittsburgh, Pennsylvania, April 4-8.

Rogan J., and J. Franklin (1999). Monitoring alteration in regional forest structure using multitemporal remote sensing data. Presented at the 1999 ESRI User's Conference- San Diego Geography Showcase (Solutions with Geographic Information Systems (GIS) and the San Diego Region, San Diego, California, July 16<sup>th</sup>.

Rogan, J. (1998). A comparison of linear and index-oriented image transformation techniques in fire-scar mapping. Presented at the Annual Meeting of the Association of American Geographers, Boston Massachusetts, March 25-28.

Rogan, J. (1997). Analysis and mapping of post-fire vegetation mortality using remote sensing and GIS. Presented at the Annual GIS/LIS Conference, Cincinnati Ohio, October 10-12.

### **Technical Reports**

Bebbington, A., **J. Rogan** and N. Cuba (2014). Geographies of Conflict: Mapping overlaps between extractive industries and agricultural land uses in Ghana and Peru. Report to Oxfam America. (March 26, 2014), 40 pp.

<https://www.oxfamamerica.org/explore/research-publications/geographies-of-conflict/>

**Rogan J.**, and J. Danko (2014). Report to Massachusetts Department of Conservation and Recreation. Assessing the locations of tree removal and replanting in the Asian Longhorned Beetle Quarantine Zone. (January 19<sup>th</sup>), 12 pp.

Cavallaro, N., M. Binford, R. Conant, J. Harrington, C.P. Lo, J. **Rogan, J.** Wiens and J. Wilson (2007). External Peer Review of the USGS Land Cover Trends Research Project: Panel Report (23 August 2007), 15 pp.

[http://landcover.trends.usgs.gov/documents/USGS\\_LCT\\_peer\\_report.pdf](http://landcover.trends.usgs.gov/documents/USGS_LCT_peer_report.pdf)

Coulter, L., D. Stow, A. Hope, J. O'Leary, J. Franklin, A. Johnson, E. Witzum, A Petersen, P. Longmire, A. Wall, **J. Rogan**, and E. Almanza (2003). Regional change monitoring of habitat reserve systems with very high resolution remotely sensed data. NASA Earth Science Directorate Final Report, Food and Fiber Applications of Remote Sensing, Grant # NAG13-99017, 173 pp.

### **Courses Taught at San Diego State University**

GEOG 488 Introduction to Remote Sensing/Lecture, Laboratory

### **Courses Taught at Clark University**

GEOG 087– Introduction to Environmental Information Systems/Lecture, Laboratory

GEOG 234/GEOG 334 – The Geography of Fire/Lecture

GEOG 282/GEOG 382 – Advanced Remote Sensing/Lecture, Laboratory

GEOG 232/GEOG 332– Landscape Ecology/Lecture, Laboratory

GEOG 293/GEOG 393 – Introduction to Remote Sensing/Lecture, Laboratory

IDND 299 – HERO Research Seminar (co-taught with Deborah Martin)

IDCE 391 – GISDE Professional Development Seminar/Lecture

GEOG 336 – Wildlife Conservation Seminar (co-taught with Florencia Sangermano)

### **Doctoral Advisor**

- 2009 – Jacob Brenner (co-advisor with B.L. Turner): Structure, agency, and the transformation of the Sonoran Desert by buffelgrass (*Pennisetum ciliare*): an application of land change science
- 2009 – Stephen McCauley: A complex human-environment systems approach for land change analysis
- 2010 – Crystal Kolden: Characterizing Alaskan wildfire regimes through remotely sensed data: assessments of large area pattern and trend
- 2010 – Zachary Christman (co-advisor with B.L. Turner): Land change in central Mexico: landscape heterogeneity, natural variability, and classification uncertainty
- 2011 – Marco Millones (co-advisor with B.L. Turner): Fire, flows and forests: anthropogenic land change, commodity networks, and multi-scale sustainability in the Mexican Yucatán
- 2016 – Nicholas Cuba: Interannual variability in the extent and intensity of tropical dry forest deciduousness in the Mexican Yucatán (2000-2016): Drivers and Links to Regional Atmospheric Conditions.
- 2017 – Arthur Elmes, Ali Santacruz Delgado (expected)

### **Doctoral Committee Member**

Danielsen Kisanga (2006), Jacqueline Vadjunec (2007), Ximena Rueda (2007), Zhe Li (2007), Stentor Danielson (2007), Anna Versluis (2008), Birgit Schmook (2008), Thidaneli Tshiguvo (2008), Kirsten Barret (2008), Deb Sinha (2009), Florencia Sangermano (2009), Rebecca Palmer-Dickson (2009), Lily Ray (2010), Wei Wei Dai (2010), Cynthia Adom (2011), Safaa Aldwaik (2012), Susan Aragon-Carrasco (2012), Bardan Ghimire (2012), Neeti Neeti (2012), Benoit Parmentier (2012), Rahul Rakshit (2012), Dominique Werboff (2012), Luke Trusel (2014), Melanie Vanderhoof (2014), Emily Gallagher (2015), Daniel Jarvis (2015), Kae Foo (2015), Daniel Jarvis (2016), Emily Gallagher (2016), Nathan Mietkiewicz (2017).

### **External Doctoral Committee Member**

2014 – Irene Zager, Department of Geography, Rutgers, The State University of New

Jersey. Analyzing the relationship between forest fragmentation and post-hurricane damage and recovery

2013 – Zhe Zhu, Department of Earth and Environment, Boston University. Continuous Change Detection and Classification of Land Cover Using All Available Landsat Data

**MSci Thesis Advisor (GIS, GISDE and ES & P)**

2003 – J. McArd-Mlotha, S. Sweet, S. Chakrabarti

2004 – M. Traina, S. Elliot, M. Kapala-Hoge, B. Pangelova

2005 – S. Griffin, D. Pomerleau, D. Parsley, N. Malizia, J. Prah

2006 – C. Lippitt, T.G. Jones, R. Bhatti

2007 – R. Frazier, J. Connors, R. Wahab-Twibell

2008 – R. Alper, J. Fortier, A. Curtis, I. Tercero

2009 – S. Blanchard, N. Bumbarger

2010 – A. Caiazzo, A. Taus

2011 – T.M. Wright, B. Schwert, N. Cuba

2012 – D. Chen, J. Vinduskova

2013 – A.J. Shatz

2014 – M. Manley, J. Danko

2015 – L. Earl, S. Cunningham, M. Andrews, A. Dardas, Z. Ritter, K. Patel

2016 – M. Hisabayashi, M. Day, S. Birdsell, F. Monroe, X. Lu

2017 – A. Khan, H. Rosenblum, K. Johnson, Y. Fuchino, C. Truong

**BA Hons Thesis Chair (Geography, Global Environmental Studies, Earth Systems Science)**

2006 – C. Lippitt, T.G. Jones

2007 – R. Frazier, J. Connors, J. Fortier

2008 – A. Caiazzo, A. Taus, S. Blanchard, N. Bumbarger

2009 – T. M. Wright, B. Schwert, R. Schmookler

2010 – T. Suarez, T. McCarthy

2011 – A.J. Shatz, J. Danko, N. Raffel, A. Hostetler

2012 – M. Manley, L. Ziemer, M. Ziemer, J. Yarleque Ipanaque

2013 – L. Earl, S. Cunningham, M. Andrews, A. Dardas, M. Andrews

2014 – Z. Ritter, M. Andrews, K. Patel

2015 – S. Birdsell, A. Knopf, E. Glennie, H. Rush, A. Phillips

2016 – Y. Fuchino, E. Goldman, H. Rosenblum, C. Ngyuen, K. Landesman, K. Johnson, I. Miranda

2017 – E. Simonson, R. Singh, S. Sanford, A. Filipovic, S. Khan

### **Major Service to Clark University**

NOAA-Mosakowski Fellowship student supervisor (2011-present)

Steinbrecher and LEEP initiatives student supervisor (2011-present)

Undergraduate Academic Board (2006- 2008)

Athletic Board (Men's Soccer) (2007-2008)

Environment Committee (2011-2013)

Traina Scholars Program Mentor (2015-present)

Traina Scholars Program Student Mentor (2015-present)

Davis Projects for Peace review committee member (2017)

### **Major Service to Graduate School of Geography and GISDE MSci Program**

Co-Director (with C. Polsky) Human-Environment Regional Observatory (HERO) Program, (2003-2012)

Co-Director (with D. Martin) Human-Environment Regional Observatory (HERO) Program, (2012-present)

Chair of Graduate School of Geography Atwood Committee (2008-2009)

Graduate School of Geography Director Search Committee (2008- 2009)

Chair of GIScience visiting professor search committee [two positions] (2011)

Chair of GIScience Assistant Professor Search Committee (2011-2012)

GISDE Program Steering Committee Member (2011-present)

Coordinator of Master of Science Advanced Degree Program in GIScience (2003-present)

Coordinator of Master of Science in GIScience for Development and Environment (2016-present)