

Max Jacobo Moreno-Madriñán, PhD, MEM

CONTACT INFORMATION

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EDUCATION

2012 **Postdoctoral Training** - Remote Sensing
NASA Postdoctoral Program, Marshall Space Flight Center, Huntsville, AL, USA

2008 **Doctor of Philosophy** - Public Health (Major in Environmental Health)
University of South Florida, Tampa, FL, USA

2000 **Master of Environmental Management** - Environmental Management for Sustainable
Development (Concentration in Coastal Zones)
Pontificia Universidad Javeriana, Bogotá, Colombia

1993 **Bachelor of Science** - Zootechny (Animal Agriculture)
Universidad Nacional de Colombia, Palmira, Valle, Colombia

ACADEMIC APPOINTMENTS

2013-Present¹ Assistant Professor, Department of Environmental Health Science, Richard M.
Fairbanks School of Public Health, Indiana University-Purdue University, IUPUI,
Indianapolis, IN

2006-2009 Adjunct Faculty, University of South Florida, College of Public Health, Tampa, FL

2002-2007 Graduate Teaching Assistant
University of South Florida, College of Public Health, Tampa, FL

2002-2007 Graduate Research Assistant
University of South Florida, College of Public Health, Tampa, Florida

¹ A bolded date indicates in-rank activity

NON-ACADEMIC APPOINTMENTS

1997-1999	Research Contractor, “ <i>Instituto Colombiano Agropecuario</i> ” (ICA, formerly “ <i>Instituto Nacional de Pesca y Acuicultura</i> ” (INPA), Colombia
1996	Research Assistant, Neguev Arava/Aquaculture R&D, Israel
1995	Farm Manager, Zoocral LTD, Colombia
1994	Field Manager, Camarones del Caribe S.A.

PROFESSIONAL ORGANIZATION MEMBERSHIPS

2010-Present	American Public Health Association (APHA)
2017-Present	Entomological Society of America (ESA)
2016-Present	International Society for Disease Surveillance (ISDS)
2007-2012	Florida Academy of Sciences
2008-2009	American Water Research Association (AWRA)
2006-2008	Florida section Air & Waste Management Association (FL A&WMA)

PROFESSIONAL HONORS AND AWARDS

RESEARCH

2004	Florida Air and Waste Management Association (FAWMA) scholarship
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OTHER

2018	Delta Omega, National Honorary Society in Public Health
2009-2012	NASA Postdoctoral Program fellowship
2002-2008	Latin American and Caribbean scholarship

PROFESSIONAL DEVELOPMENT

2013	ArcGIS II: Essential Workflows (version 10.1)
2007	SCUBA Certification – University of South Florida
2007	Adult and Infant CPR

TEACHING

TEACHING ASSIGNMENTS

Fairbanks School of Public Health, Indiana University

UNDERGRADUATE / COURSE DIRECTOR

Course #	Short Title	Term	Enroll. <i>n</i>	Student Evaluation	Global Index
A404/A640	Public Health Applications of GIS	Fa 18	6	NA	NA
H455	Health Systems Around the World	Sp 18	7	NA	NA
A424 /A670	Env. Health Science Technology: Managing Water and Waste	Sp18	5	4.50	4.50
A404/A640	Public Health Applications of GIS	Fa 17	3	4.79	4.40
H455/H670	Health Systems Around the World	Sp 17	5	NA	NA
A424/A614	Env. Health Science Technology: Managing Water and Waste	Sp 17	11	4.18	4.36
A400/A640	Public Health Applications of GIS	Fa 16	10	4.67	4.27
A424/A670	Env. Health Science Technology: Managing Water and Waste	Sp 16	12	4.70	4.40
A400/A640	Public Health Applications of GIS	Fa 15	6	3.80	3.80
A424/A670	Env. Health Science Technology: Managing Water and Waste	Sp 15	10	4.40	4.30
A400/A640	Public Health Applications of GIS	Fa 14	5	3.80	3.80
A424/A670	Env. Health Science Technology: Managing Water and Waste	Sp 14	14	4.10	4.00
<i>Undergraduate weighted average student evaluation:</i>				4.31 / 5.00	

GRADUATE / COURSE DIRECTOR

Course #	Short Title	Term	Enroll. <i>n</i>	Student Evaluation	Global Index
A650	Readings in Public Health	Fa 18	1	NA	NA
A640/A404	Public Health Applications of GIS	Fa 18	5	4.64	4.38
A614/A424	Water Quality	Sp 18	4	4.60	4.40
A640/A404	Public Health Applications of GIS	Fa 17	7	4.95	4.41
A650	Readings in Public Health	Fa 17	1	NA	NA
H670/H455	Health Systems Around the World	Sp 17	3	NA	NA
A614/A424	Water Quality	Sp 17	5	4.62	4.46
A670	Readings: Applied Geo-Technology to Water Related Diseases	Sp 17	1	NA	NA
A640/A400	Public Health Applications of GIS	Fa 16	8	4.57	4.38
A670/A424	Water Quality	Sp 16	3	4.60	4.40
A640/A400	Public Health Applications of GIS	Fa 15	9	4.10	3.90
A670/A424	Water Quality	Sp 15	5	4.70	4.50
A670	Readings: Remote Sensing & PH	Sp 15	1	NA	NA
A640/A400	Public Health Applications of GIS	Fa 14	9	4.00	4.00
A670/A424	Water Quality	Sp 14	7	4.70	4.60
A670	Public Health Applications of GIS	Fa 13	4	4.90	4.60

Graduate weighted average student evaluation: **4.50/ 5.00**

GUEST LECTURES

Course #	Short Title	Level	Term	Enroll.	Student Evaluation
A130	Novel Solutions in Global Health	Undergraduate	Sp 18	24	NA
H670	Population and Public Health	Undergraduate	Fa 16	26	NA
H330	Global Public Health	Undergraduate	Fa 16	40	NA
H 330	Global Public Health	Undergraduate	Fa 14	8	NA
A316	Environmental Health Science	Undergraduate	Sp 14	52	NA
E775	Doctoral Res. Seminar in Epi.	Graduate	Su 14	6	NA
A519	Environ. Science in Public Health	Graduate	Fa 13	44	NA

(All courses listed above are 3 credit hours, except Reading courses and E775, which are 1 credit hours)

Southeast University (Nanjing, China)

GRADUATE / COURSE DIRECTOR

Course #	Short Title	Role	Term	Enroll.	Student Evaluation
S042808	Health Policy and Management	Cour. Director	Fa 15	9	NA

PREVIOUS COURSES TAUGHT

University of Alabama at Birmingham

GRADUATE / GUEST LECTURES

Course #	Short Title	Role	Term	Enroll.	Student Evaluation
ANTH 434	Real World Remote Sensing	Guest Lecturer	Sp 10	≈15	NA

University of South Florida

UNDERGRADUATE

Course #	Short Title	Role	Term	Enroll.	Student Evaluation
HSC4631-311	Critical Issues in Public Health	Cour. Director	Sp 09	27	4.25
PHC4011-310	Introduction to Public Health	Cour. Director	Sp 09	99	4.35
PHC4011-313	Introduction to Public Health	Cour. Director	Sp 09	99	3.77
PHC4011-314	Introduction to Public Health	Cour. Director	Sp 09	99	4.36
HSC2100-004	Contemporary Health Science	Cour. Director	Fa 07	48	3.69
HSC2100-002	Contemporary Health Science	Cour. Director	Fa 07	45	3.38
HSC2100-004	Contemporary Health Science	Cour. Director	Su 07	9	3.88
HSC2100-002	Contemporary Health Science	Cour. Director	Fa 06	44	3.54

GRADUATE

Course #	Short Title	Role	Term	Enroll.	Student Evaluation
HSC5933-310	Critical Issues in Public Health	Cour. Director	Sp 09	14	4.25

GUEST LECTURES

Course #	Short Title	Level	Term	Enroll.	Student Evaluation
PHC 6934	Ocean and Coastal Zones	Undergraduate	Fa 10	8	NA
PHC	Sustainability and Health	Graduate	Fa 10	10	NA
PHC 6357	Environ. and Occupational Health	Graduate	Fa 05	≈ 50	NA
PHC 6357	Environ. and Occupational Health	Graduate	Sp 06	≈ 50	NA
PHC 6357	Environ. and Occupational Health	Graduate	Fa 06	≈ 50	NA
PHC 6357	Environ. and Occupational Health	Graduate	Sp 07	≈ 50	NA

MENTORING

GUIDED STUDENT RESEARCH

Student name	Status	Role	Degree aimed	Term	Department
Ruiguang Pan	Dissertation	Com. member	PhD	Fa 18-present	Earth Sciences
Fotios Fouskas	Dissertation	Com. member	PhD	Fa 15-present	Earth Sciences
Austin Stanforth	Dissertation	Com. member	PhD	Fa 15-Fa 16	Earth Sciences
Igor Ogashawara	Dissertation	Com. member	PhD	Fa 14-present	Earth Sciences
Shiva Ladan	Dissertation	Com. member	PhD	Fa 13-16	Earth Sciences
Nicolas Clercin	Dissertation	Com. member	PhD	Fa 13-present	Earth Sciences
Marie Kellemen	Capstone	Preceptor	MPH	Fa 17	EHS
Kaine Teme	Capstone	Preceptor	MPH	Fa 15	EHS
A. Shadman	Capstone	Preceptor	MPH	Fa 14	EHS

SUPERVISION OF RESEARCH ASSISTANTS AND STUDENTS

Student name	Status	Role	Degree aimed	Term	Department
Yibo Zhang	Visit. Scholar	Mentor	PhD	Sp 18-present	EHS
Marie Kellemen	Res. Assistant	PI	MPH	Su 17	EHS
Jeffrey Ashby	Res. Assistant	PI	MSc/MPH	Sp 15-present	Geograp./EHS
Austin Stanforth	Res. Assistant	PI	PhD	Fa 15-Fa 16	Earth Sciences
Mary Leffevers	Res. Assistant	PI	BSc	Sp 15-Sp 16	EHS
Edward Chikwana	Res. Assistant	PI	MPH	Sp 15	EHS
Katery Gomez	Res. Assistant	PI	BSc	Sp 15	EHS
SoeYu Naing	Sum. Intern	Advisor	BSc	Su 15	EHS
Courtney Austin	Sum. Intern	Advisor	BSc	Su 15	EHS

TEACHING ADMINISTRATION AND CURRICULUM DEVELOPMENT

COURSE DEVELOPMENT

Course #	Short Title	Credits
Not yet assigned	Co-develop, co-design, and implementation of the graduate/undergraduate combined study abroad course 'Eco-solutions in global health engineering'	3
H670/H455	Co-develop, co-design, and implementation of the graduate/undergraduate combined study abroad course 'Health Systems Around the World'	3
A400	Develop and design of a new undergraduate course 'Global Environmental Health and Sustainable Development' (this course has not been offered yet)	3
A640/A404	Develop, design and implementation of the graduate/undergraduate combined course 'Public Health Applications of GIS'	3

RESEARCH/CREATIVE ACTIVITY

GRANTS/FELLOWSHIPS IN RESEARCH

ACTIVE RESEARCH GRANTS

2018 – 2019 *A Novel Approach to Exploring Mosquito Populations and Associated Diseases Risk in Indiana*
Role: Co-Investigator
Agency: Indiana Space Grant Consortium
Amount: \$107,800

COMPLETED RESEARCH GRANTS

2014 – 2016 *Using remote sensing technology to identify areas at risk of dengue, Magdalena River watershed, Colombia, as a study case*
Role: Principal Investigator
Agency: IUPUI Office of the Vice Chancellor for Research
Amount: \$35,000

2015 – 2016 *Enhanced Mentoring Program (EMPOWER)*
Role: Principal Investigator
Agency: IUPUI Office of the Vice Chancellor for Research
Amount: \$4,000

2010 – 2012 *Investigating the Potential Range Expansion of the Vector Mosquito Aedes aegypti in Mexico with NASA Earth Science Remote Sensing Results*
Role: Co-Investigator

Agency: National Aeronautics and Space Administration (NASA) / Research Opportunities in Space and Earth Sciences (ROSES) (A.31) (10-PHFEAS10-0010)
Amount: \$121,584

2009 – 2012 *Association between Change in Land Use and Human Population with Lake Water Eutrophication Variables Linked to Abundance of Toxic Cyanobacteria in the Tampa Bay Watershed*
Role: Principal Investigator
Agency: NASA Postdoctoral Program
Amount: \$158,000

PENDING RESEARCH GRANTS

2019 – 2023 *Indiana University Wastewater Consortium, Responding to the Addiction Crisis*
Role: Co-Investigator
Agency: Indiana University's Grand Challenge Initiative, Responding to the Addiction Crisis
Amount: \$1,977,704

INVITED RESEARCH PRESENTATIONS

* *Speaker*; ** *Mentor*; † *Mentee*; ‡ *Refereed*

LOCAL

2015 ***Moreno-Madriñán**, M. J. Using remote sensing and geographical information systems to study environmental determinants of dengue geographical distribution, Colombia as a case. Indiana University, Fairbanks School of Public Health, Indianapolis, IN. November 12, 2015, Indianapolis, IN, USA

2013 ***Moreno-Madriñán**, M. J. Application of MODIS products to infer relationships between basin land cover and coastal water turbidity using the Magdalena River watershed, Colombia, as a case study. Indiana University, IUPUI, School of Sciences, Earth Science Department. Indianapolis, IN. April 29, 2013, Indianapolis, IN, USA

2012 *‡**Moreno-Madriñán**, Max. J. What is SERVIR? 6th Annual Science & Technology Jamboree. National Space Science and Technology Center held on November 30, 2012, in Huntsville, AL, USA

2011 *‡**Moreno-Madriñán**, Max. J., Mohammad Z. Al-Hamdan, Douglas L. Rickman, and Jun Ye. Watershed Land-Cover/Land-use Change and water Turbidity. 5th Annual Science & Technology Jamboree. National Space Science and Technology Center held on November 30, 2011, in Huntsville, AL, USA

2010 *‡**Moreno-Madriñán**, Max. J., Mohammad Z. Al-Hamdan, Douglas L. Rickman, and Frank E. Muller-Karger. Using the Surface Reflectance MODIS Terra Product to Estimate Turbidity in Tampa Bay, Florida. 4th Annual Science & Technology Jamboree. National Space Science and Technology Center held on December 7th, 2010, in Huntsville, AL, USA

2010 *‡**Moreno-Madriñán**, M. J. Temporal trends in trophic state parameters in Tampa Bay,

Florida. National Space Science and Technology Center (NSSTC), University of Alabama in Huntsville & Marshall Space Flight Center/NASA. April 28, 2010, Huntsville, AL, USA

REGIONAL

- 2015** ***Moreno-Madriñán**, M. J. Using remote sensing and geographical information systems to study environmental determinants of dengue geographical distribution. Indiana University, School of Public Health. November 19, 2015, Bloomington, IN.

NATIONAL

- 2016** ***Moreno-Madriñán**, M. J., †**Ashby**, J., †**Stanforth**, A. Using remote sensing to identify Areas at Risk of Diseases Caused by Mosquito-transmitted Pathogens. International Society for Disease Surveillance (ISDS) in collaboration with the Arizona Department of Health Services. June 14, 2016, Phoenix, AZ.
- 2012 *‡**Moreno-Madriñán**, Max. J., Ashutosh S. Limaye, Maudood N. Khan, and Dan Irwin. SERVIR and Public Health. NASA Public Health Program Review held from September 18-20, 2012, in Newport, RI, USA
- 2011 *‡**Moreno** Madriñán, Max. J., Mohammad Z. Al-Hamdan, David G. Parajón, Douglas L. Rickman, Jeffrey Luvall, Laura C. Parajón, Roberto Martínez, Sue Estes and Erika Podest. Identifying geographic areas at risk of soil transmitted helminthes infection using MODIS products: Boaco, Nicaragua as a case study. NASA Public Health Program Review held from September 14-16, 2011, in Santa Fe, New Mexico, USA
- 2010 *‡**Moreno** Madriñán, Max J., Mohammad Z. Al-Hamdan, and Douglas L. Rickman. Using Remotely Sensed Data to Study Possible Effects of Land Cover/Land Use Change on Water Quality in Tampa Bay. NASA Public Health Program Review held from September 26-28, 2010, in San Antonio, Texas, USA.

INTERNATIONAL

- 2015** *‡**Moreno-Madriñán**, M. J., †**Ashby**, J., †**Stanforth**, A. Using remote Using remote sensing technology to identify areas at risk of dengue, Magdalena River watershed, Colombia, as a case. Universidad San Francisco de Quito. First International Congress on Evolution and Ecology of Global Communicable Diseases. March 15, Quito, Ecuador
- 2015** ***Moreno-Madriñán**, M. J. Using remote Using remote sensing and geographical information systems to study environmental determinants of dengue geographical distribution, Colombia as a case. Southeast University, School of Public Health. December 29, 2015, Nanjing, China
- 2011 *‡**Moreno** Madriñán, Max J., Mohammad Z. Al-Hamdan, David G. Parajón, Douglas L. Rickman, Jeffrey Luvall, Laura C. Parajón, Roberto Martínez, and Sue Estes. Using Remote Sensing (RS) Data and Geographical Information Systems (GIS) to Infer Soil Transmitted Helminthes Infection in Boaco, Nicaragua. 5th International Symposium on Geospatial Health held from September 30 - Oct. 2, 2011, in Cartagena, Colombia

ADDITIONAL RESEARCH PRESENTATIONS

* *Speaker*; ** *Mentor*; † *Mentee*; ‡ *Refereed*; ¯ *Poster Presentation*

LOCAL

- 2016** *†Ashby, J., **‡ **Moreno**-Madriñán, M. J., & Stanforth, A. Predicting risk using remotely sensed environmental factors. Indiana State Government Center South. 2016 Indiana GIS Day Conference. September 20, 2016, Indianapolis, IN, USA

REGIONAL

- 2007 *‡ **Moreno**, Max and Noreen Poor. Identification and Modelling of Main Factors Affecting Water Quality in Suburban Lakes – Third place awarded. Florida Air and Waste Management Association Conference (FAWMA). October 28, 2007. Deerfield Beach, Florida, USA
- 2007 **Moreno**, Max and *Noreen Poor. Role of Submerged Aquatic Vegetation as a Nutrient Buffer in Suburban Lakes. “Implementation and Integration Workshop”, Gulf of Mexico Alliance, Florida – USA
- 2006 *‡ **Moreno**, Max and Noreen Poor. Application of a Total Nitrogen (TN) Analytical Method for Natural Waters – Third place awarded. Florida Air and Waste Management Association Conference (FAWMA). October 2006. Atlantic Beach, Florida, USA
- 2004 *‡ **Moreno**, Max and Noreen Poor. Mass Balance of Nitrogen at a Storm Water Research Facility in a Suburban Setting. Florida Air and Waste Management Association (FAWMA), November 2004. Orlando, Florida, USA

NATIONAL

- 2018** *†Stanforth, A. C., **‡ **Moreno**-Madriñán, M. J., Ashby, J. Vector Host Niche Analysis to Predict Emergent Zika Outbreak Patterns. AAG Annual Meeting. April 10, 2018. New Orleans, LA, USA
- 2018** *†Ashby, J., **‡ **Moreno**-Madriñán, M. J., Yiannoutsos, C. T., & Stanforth, A. Niche Modeling of Dengue Fever Using Remotely Sensed Environmental Factors and BRT. International Society for Disease Surveillance (ISDS). Annual Meeting. January 30 - February 2, 2018, in Orlando, FL, USA
- 2013** *‡ **Moreno** Madriñán, Max J, William Crosson, Andrew Monaghan, Maurice Estes Jr., Sue Estes, Dale Quattrochi, Mary Hayden, Saul Lozano-Fuentes, Lars Eisen, Carlos Welsh-Rodriguez, Carolina Ochoa-Martinez, Berenice Tapia-Santos, Sarah Hemmings. Using remote sensing technology to estimate abundance of vectors of disease agents: Association between remotely sensed rainfall data and abundance of pupae of the mosquito vector of dengue virus, *Aedes aegypti*, in Mexico, as a case. American Public Health Association's (APHA) 141th Annual Meeting and Exposition held from November 2 - 6, 2013, in Boston, MA, USA
- 2012 ‡ **Moreno**-Madriñán, Max J. and *Andrew M. Fischer. The validity Chlorophyll-*a* estimation by sun induced fluorescence in estuarine waters: An analysis of long-term

- (2003-2011) water data from Tampa Bay, Florida (USA). American Geophysical Union (AGU) 45th Annual Fall Meeting. December 3-7, 2012, in San Francisco, CA, USA
- 2012 *Fischer, Andrew M., John P. Ryan and [#]**Moreno-Madriñán**, Max J.. Applications of MODIS Fluorescence Line Height Measurements to Monitor Water Quality Trends and Algal Bloom Activity in Coastal and Estuarine Waters. American Geophysical Union (AGU) 45th Annual Fall Meeting. December 3-7, 2012, in San Francisco, CA, USA
- 2012 *Crosson, William L., M. , Hayden, Maurice G. Estes , Sue M. Estes, D. Quattrochi, ^{#T}**Moreno-Madriñán**, Max J., Monaghan, Andrew J., Eisen, L., Lozano-Fuentes, S., Ochoa, C., Tapia, B., and Welsh-Rodriguez, C.M. Investigating the Potential Range Expansion of the Vector Mosquito *Aedes aegypti* in Mexico with NASA Earth Science Remote Sensing Results. American Geophysical Union (AGU) 45th Annual Fall Meeting. December 3-7, 2012, in San Francisco, CA, USA
- 2012 *Molthan, Andrew; Case, Jonathan; Venner, Jason; ^{#T}**Moreno-Madriñán**, Max J.; and Delgado, Francisco. Development of a High Resolution Weather Forecast Model for Mesoamerica Using the NASA Nebula Cloud Computing Environment. American Geophysical Union (AGU) 45th Annual Fall Meeting. December 3-7, 2012, in San Francisco, CA, USA
- 2011 *[#]**Moreno** Madriñán, Max J., David G. Parajón, Mohammad Z. Al-Hamdan, Roberto Martínez, Douglas L. Rickman, Laura Parajón, and Sue Estes. Use of Remote Sensing/Geographical Information Systems (RS/GIS) to identify Environmental Limits of Soil Transmitted Helminthes (STHs) Infection in Boaco, Nicaragua. American Public Health Association's (APHA) 139th Annual Meeting and Exposition held from October 29 - November 2, 2011, in Washington D.C., USA
- 2010 *[#]**Moreno** Madriñán, Max J., Mohammad Z. Al-Hamdan, Douglas L. Rickman, and Maurice Estes. Relationships between urban development and the trophic status of Tampa Bay watershed: Potential effect on public health. American Public Health Association's (APHA) 138th Annual Meeting and Exposition held from November 6 - 10, 2010, in Denver, Colorado, USA

INTERNATIONAL

- 2015 *[#]**Moreno-Madriñán**, Max J., Douglas L. Rickman and Dan E. Irwin. Usando Teledetección para Identificar la Incidencia de Sedimentos del Canal del Dique en Sistemas Acuáticos Costeros. 1^{er} Congreso Iberoamericano sobre Sedimentos y Ecología 23 Julio 2015. Querétaro, México.
- 2015 *Fischer, A. M.; Kidd, I.; Pang, D.; Attard, M.; [#]**Moreno-Madrinan**, M.: Integrating *in situ* data, remote sensing and modeling to address anthropogenic stressors on tidally modulated sediment transport in an estuarine environment (ID: 25666). 2015 Aquatic Sciences Meeting. Aquatic Sciences: Global and Regional Perspectives – North Meets South. February 22-27, 2015, in Granada, Spain
- 2012 ***Moreno-Madriñán**, Max J., Africa Flores Cordova, Francisco Delgado Olivares, and Dan Irwin. Relationship between Change in Land Cover in the Magdalena River Watershed and Water Reflectance at the Points of Discharge. Joint LAPIS-FUNCEME Workshop on the Cooperative Experience for Integrating Land and Water Resources Management in Latin America held from August 13-14, 2012, in Fortaleza, Brazil.

SERVICE

UNIVERSITY SERVICE

DEPARTMENT

Dates	Role	Activity
07/12/2015	Guest lecturer	Student recruitment - Brownsburg High School
06/30/2015	Host	Student recruitment - Latino students - La Plaza
06/24/2015	Presenter	Student recruitment - Latino students - La Plaza
05/13/2015	Facilitator	Student recruitment - Ball State University
04/21/2015	Guest lecturer	Student recruitment - IUPUI Department of Geography
03/09/2015	Presenter	Student recruitment - water conservation Altern. Spring Break

SCHOOL

Inclusive Dates	Role	Activity
2015-Present	Member	UG Progress Review Committee, IU FSPH
2015-Present	Member	UG Curriculum Committee, IU FSPH
2013 - 2015	Member	Faculty Assembly Steering Committee, IU FSPH
2014	Member	Search Committee, PH Training Center Director, IU FSPH
2013	Member	Research Committee, IU FSPH
2013	Member	Diversity and Climate Task Force Group, IU FSPH

PROFESSIONAL SERVICE

LOCAL

Inclusive Dates	Activity	Organization
2015-Present	Member	Latino community – University Coalition of Indiana

INTERNATIONAL

Inclusive Dates	Activity	Organization / Journal
2016	Grant-Reviewer (two proposals)	NASA/Earth Science
2017	Peer-Reviewer (one article)	Spatial and Spatio-temporal Epidemiology
2017	Peer-Reviewer (one article)	GeoHealth
2017	Peer-Reviewer (one article)	Public Library of Science (PLOS) One
2016-2017	Peer-Reviewer (two articles)	PLOS Neglected Tropical Diseases
2010-2018	Peer-Reviewer (eight articles)	Remote Sensing
2015-2018	Peer-Reviewer (two articles)	International Journal for Equity in Health
2015	Peer-Reviewer (one article)	Biomedica
2014	Peer-Reviewer (one article)	Remote Sensing of the Environment
2013	Peer-Reviewer (one article)	International Journal of Remote Sensing

PUBLICATIONS

* *In-rank*; ** *In-rank and Mentor*; † *Mentee*

TEACHING

REFEREED

Journal Articles:

1. Lewis, David; **Moreno**, Max and John Large (2009). [Introductory videos: An analysis of student use patterns](#). *Journal of the Research Center for Educational Technology*, 5 (3) 68-79.

RESEARCH/CREATIVE ACTIVITY

REFEREED

Journal Articles:

1. †Zhang, Y., Shi, K., **Zhang, Y., ****Moreno-Madriñán**, M. J., Zhu, G., Zhou, Y., & Yao, X. (2018). [Long-term change of total suspended matter in a deep-valley reservoir with HJ-1A/B: implications for reservoir management](#). *Environmental Science and Pollution Research*, 1-14. DOI: 10.1007/s11356-018-3778-0
2. †Zhang, Y., Shi, K., **Zhang, Y., ****Moreno-Madrinan**, M. J., Li, Y., & Li, N. (2018). [A semi-analytical model for estimating total suspended matter in highly turbid waters](#). *Optics Express*, 26(26), 34094-34112. DOI: 10.1364/OE.26.034094
3. ***Moreno-Madriñán**, M. J. & Michael Turell. (2018). [History of Mosquito-Borne Diseases in the United States and Implications for New Pathogens](#). *Emerging infectious diseases*, 24(5):821-826. DOI: 10.3201/eid2405.171609.
4. Fischer, A. M., †Pang, D., †Kidd, I. M., & ****Moreno-Madriñán**, M. J. (2017). [Spatio-Temporal Variability in a Turbid and Dynamic Tidal Estuarine Environment \(Tasmania, Australia\): An Assessment of MODIS Band 1 Reflectance](#). *ISPRS International Journal of Geo-Information*, 6(11), 320. DOI: 10.3390/ijgi6110320
5. †Ashby, J., ****Moreno-Madriñán**, M. J., Yiannoutsos, C. T., & †Stanforth, A. (2017). [Niche Modeling of Dengue Fever Using Remotely Sensed Environmental Factors and Boosted Regression Trees](#). *Remote Sensing*, 9(4), 328. DOI: 10.3390/rs9040328
6. ***Moreno-Madriñán**, M. J., & Turell, M. (2017). [Factors of Concern Regarding Zika and Other Aedes aegypti-Transmitted Viruses in the United States](#). *Journal of Medical Entomology*, 54(2), 251-257. DOI: 10.1093/jme/tjw212.
7. †Ogashawara, I., Li, L., & ****Moreno-Madriñán**, M. J. (2017). [Slope algorithm to map algal blooms in inland waters for Landsat 8/Operational Land Imager images](#). *Journal of Applied Remote Sensing*, 11(1), 012005-012005. DOI: 10.1117/1.JRS.11.012005.
8. †Stanforth, A., ****Moreno-Madriñán**, M. J., & †Ashby, J. (2016). [Exploratory analysis of dengue fever niche variables within the Río Magdalena watershed](#). *Remote Sensing*, 8(9), 770. DOI: 10.3390/rs8090770.
9. ***Moreno-Madriñán**, M. J., Rickman, D. L., †Ogashawara, I., Irwin, D. E., Ye, J., & Al-Hamdan, M. Z. (2015). [Using remote sensing to monitor the influence of river discharge on watershed outlets and adjacent coral Reefs: Magdalena River and Rosario Islands, Colombia](#). *International Journal of Applied Earth Observation and Geoinformation*, 38, 204-215. DOI:10.1016/j.jag.2015.01.008.
10. †Ogashawara, I., & ****Moreno-Madriñán**, M. J. (2014). [Improving inland water quality monitoring through remote sensing techniques](#). *ISPRS International Journal of Geo-Information*, 3(4), 1234-1255. DOI: 10.3390/ijgi3041234.

11. ***Moreno-Madriñán**, M. J., Crosson, W. L., Eisen, L., Estes, S. M., Estes Jr, M. G., Hayden, M., Sarah N. Hemmings, Dan E. Irwin, Saul Lozano-Fuentes, Andrew J. Monaghan & Quattrochi, D. (2014). Correlating Remote Sensing Data with the Abundance of Pupae of the Dengue Virus Mosquito Vector, *Aedes aegypti*, in Central Mexico. *ISPRS International Journal of Geo-Information*, 3(2), 732-749. DOI: 10.3390/ijgi3020732.
12. ***Moreno-Madriñán**, M. J., & Fischer, A. M. (2013). Performance of the MODIS FLH algorithm in estuarine waters: a multi-year (2003–2010) analysis from Tampa Bay, Florida (USA). *International journal of remote sensing*, 34(19), 6467-6483. DOI:10.1080/01431161.2013.804227.
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