

August 2020

## JULIE ANN CLENNON

Department of Environmental Sciences, Emory College of Arts and Sciences  
400 Dowman Drive, Atlanta, GA 30322  
Tel: (404)727-XXXX; Fax: (404)727-4448; e-mail: [jclenno@emory.edu](mailto:jclenno@emory.edu)

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### Degrees & Training

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- 2001 – 2006 **Ph.D., Veterinary Pathobiology**, Advisor: Dr. Uriel Kitron  
University of Illinois, Urbana-Champaign, IL, USA  
Dissertation: ‘Eco-Epidemiology of *Schistosoma haematobium*: Spatial and Temporal Heterogeneity of Infection and Snail Dispersal in Msambweni, Kenya’
- 1999 – 2001 **M.Sc., Community Health – Epidemiology**, Advisor: Dr. Uriel Kitron  
University of Illinois, Urbana-Champaign, IL, USA  
Thesis: ‘Temporal and spatial patterns of pediatric tuberculosis in Illinois: 1993-1999’
- 1992 – 1996 **B.Sc., Anthropology, Minor: Biological Sciences**, Advisor: Fred H. Smith  
Northern Illinois University, DeKalb, IL, USA

#### Postdoctoral Training:

- 2010- 2011 **Postdoctoral Researcher**. Department of Environmental Health, Rollins School of Public Health, Emory University, Atlanta, GA
- 2008- 2013 **Postdoctoral Research Fellow**. Department of Biostatistics and Bioinformatics, Rollins School of Public Health, Emory University, Atlanta, GA
- 2006-2008 **Postdoctoral Research Fellow**. Department of Molecular Microbiology and Immunology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

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### Work Experience

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- 2020- present **Instructor, part-time** (80% FTE) Department of Environmental Science, Emory University, Atlanta, GA
- 2020- present **Instructor Secondary Appointment**. Gongarosa Department of Environmental Health, Emory University, Atlanta, GA
- 2018- 2019 **Contractor**. Department of Communicable Diseases, Pan American Health Organization, Washington D.C.
- 2018- 2020 **Adjunct Instructor**. Department of Environmental Science, Emory University, Atlanta, GA

2013- 2020 **Research-Track Instructor** (2019-present 100% FTE, 2015-2019 80% FTE, 2013-2015 50% FTE) Department of Biostatistics and Bioinformatics, Rollins School of Public Health, Emory University, Atlanta, GA

2009- 2013 **Visiting Instructor (10% FTE)** Department of Biostatistics and Bioinformatics, Rollins School of Public Health, Emory University, Atlanta, GA

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## Other Affiliations

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- **Core Investigator.** Center for Global Safe Water, Rollins School of Public Health, Emory University
- **Teaching Faculty.** Master's in Development Practice, Laney Graduate School, Emory University

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## Research Positions

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2010- 2011 **Postdoctoral Researcher.** Dr. Kyle Steenland, Department of Environmental Health, Rollins School of Public Health, Emory University, Atlanta, GA

- PFOA Exposure and long-term health outcomes

2008- 2013 **Postdoctoral Research Fellow.** Dr. Lance Waller, Department of Biostatistics and Bioinformatics, Rollins School of Public Health, Emory University, Atlanta, GA

- Spatial Ecology of Infectious Diseases: Spatial and temporal pattern analysis of Buruli Ulcer (Ghana); Predictive modeling of anopheline mosquito potential niches; Spatial risk modeling of *Ascaris* infections in Bolivia; Assessment of fecal exposure pathways in low-income urban settings

2006-2008 **Postdoctoral Fellow.** Dr. Gregory Glass, Department of Molecular Microbiology and Immunology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

- Malaria Vector Ecology (Zambia) - Larval mosquito collection, rearing and identification (morphological and pcr). Remote sensing duties include imagery (QuickBird, LandSat, ASTER) rectification, processing, classification. Application of topographic indices and hydrological modeling derived from SRTM and ASTER imagery to predict water pooling locations and probable larval habitats.

2001-6 **Graduate Research Assistant.** Dr. Uriel Kitron, Department of Veterinary Pathobiology, University of Illinois, Urbana, IL

- Schistosomiasis (Kenya) - Spatial data (human demographic, infection & water contact; snail population & infection; environmental) collection, processing, management and analysis. Satellite imagery (Ikonos, LandSat, SRTM) processing and analysis. Integrated snail data with satellite imagery to create a dispersal model.
- Lyme Disease - Tick collection (dragging for nymphs & larvae; collection of adult ticks during annual deer hunt), mouse ear biopsies, animal trapping, spatial database support
- Lacrosse Encephalitis: Animal Trapping and blood sample collections
- Malaria (Kenya) – Spatial analysis consultant
- Chagas – Database advisement, satellite imagery processing support (Ikonos and Quickbird)
- West Nile Virus – Calculating mosquito infection indices

2000-1 **Graduate Research Assistant.** Dr. Randall Singer, Department of Veterinary Pathobiology, University of Illinois, Urbana, IL

- Bovine Bluetongue Virus - Prepared blood samples, conducted AGID testing, acted as geographic information systems support for the lab, and developed and maintained research archive.
- 1996 **Student worker.** Dr. Brain Butler, Center for Archaeological Investigations, Southern Illinois University, Carbondale, IL: American Midwest archaeology
- Artifact processing
- 1995-6 **Undergraduate Research Assistant.** Dr. Michael Parrish, Northern Illinois University, Department of Biological Sciences: Oligocene paleoecology of Badlands National Park (Fossil preparation and identification) and tetrapod evolution and systematics (Scan electron photography of tetrapod teeth)

## Other Research Activities & Collaborative Research Projects

- 2020- present J. Michael Bryan, MPH, PhD, Director of Maternal and Child Health Epidemiology Division of Health Protection/Epidemiology Section/Maternal and Child Health Epidemiology Unit, Georgia Department of Public Health
- Provided assistance in choosing, interpreting, and making action recommendations for spatial and spatiotemporal analyses of geocoded COVID-19 case data
- 2019 Lauren F. Collins & Monica M. Farley Department of Medicine, Emory University School of Medicine, Atlanta, GA, USA; Georgia Emerging Infections Program, Atlanta, GA, USA
- Emergence of Clonal Invasive Nontypeable *Haemophilus influenzae* in HIV-positive Black Men Who Have Sex with Men in Metropolitan Atlanta, 2017–2018
- 2017- present Scott Richie, James Cook University, Cairns, Australia
- Mosquito dispersal Pathways in suburban Cairns, Australia
- 2016- present Jessica Fairley, Emory School of Medicine, Atlanta, GA
- Childhood Leprosy and Schistosomiasis in Brazil
- 2015-2017 Uriel Kitron, Department of Environmental Studies, Emory University, Atlanta, GA
- Metropolis, Migration and Mosquitoes: Historicizing Health Outcomes in São Paulo, Brazil
- 2015 Thomas Burkott, James Cook University, Cairns, Australia
- Flight patterns of *Anopheles farauti* in the Solomon Islands
- 2015-2016 Neela Goswami, School of Medicine, Emory University, Atlanta, GA
- Spatial Variation in Tuberculosis Patterns and HIV Co-infections in the Atlanta Metro Area
- 2014- 17 Janet Cummings, Department of Health Policy and Management, Rollins School of Public Health, Emory University, Atlanta, GA
- Accessibility of Pediatric Psychiatric care in the United States
- 2013-2015 Dr. Richard Reithinger, RTI International.
- Malaria surveillance in Zanzibar
- 2011- present Dr. Thomas Gillespie, Department of Environmental Studies, Emory University, Atlanta, GA
- Chimpanzee health and waterborne diseases: Statistical and database management support
  - Spatial Heterogeneity of Childhood Enteric Infections and Growth Parameters
- 2010-2012 Adela Castello, Department of Public Health Sciences, Faculty of Medicine, University of Alcalá, Madrid, Spain
- Environmental pollution and associations with birth defects - geographic information systems and spatial statistics support

- 2010-2012 Dr. N. Kyle Steenland and Dr. Stefanie Ebelt Sarnat, Department of Environmental Health, Rollins School of Public Health, Emory University, Atlanta, GA
- Spatial patterns of emergency room visits: Geographic information systems and spatial analysis
- 2009-2011 Paul Howell, Malaria Branch, Centers for Disease Control, Atlanta, GA
- Predictive modelling of anopheline mosquito potential niches
- 2009-2010 Dr. Christine Moe, Department of Global Health, Rollins School of Public Health, Emory University, Atlanta, GA
- Spatial risk modeling of *Ascaris* infections in Bolivia
  - Assessment of fecal exposure pathways in low-income urban settings – Geospatial analyst and statistical support
- 2001- 6 Dr. Anna Schotthoefer, Department of Veterinary Pathobiology, University of Illinois, Urbana, IL
- The effects of environmental conditions on parasite transmission and amphibian survival and development – GIS support, laboratory aid
- 2000-2 Dr. Connie Austin, Department of Infectious Diseases, & Michael Arbise, Tuberculosis Division Illinois Department of Public Health, Springfield, IL
- Tuberculosis – spatial data processing & statistical testing
  - West Nile Virus – Initial outbreak response including map preparation, avian case data management & spatial data processing
  - St. Louis Encephalitis (Historical) – Human case data management, spatial data processing
- 1995 Independent Student Research: Positional Behavior of *Cebus capucinus*, Costa Rica – Dr. Suzanne Walker, Humboldt University, CA
- Tracking and observing non-human primates (*Cebus capucinus*, *Alouatta palliata*)

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## Teaching Experience

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<sup>+</sup> denotes teaching recognition

### **Courses**

- 2020 Instructor: MDP 597R-2 Spatial Analysis
- 2019- present Co-Instructor: EH 583/ENVS 385 – Spatial Analysis in Disease Ecology, Department of Environmental Health, Rollins School of Public Health, Emory University, Atlanta, GA
- 2018 Co-Instructor: INFO 597R – Directed Study, Department of Biostatistics and Bioinformatics, Rollins School of Public Health, Emory University, Atlanta, GA
- 2015 -2020 Instructor: INFO 532 – Geographic Information Systems for Public Health, Department of Biostatistics and Bioinformatics, Rollins School of Public Health, Emory University, Atlanta, GA
- 2015- 2020 Instructor: INFO 560 – Advanced Geographic Information Systems, Department of Biostatistics and Bioinformatics, Rollins School of Public Health, Emory University, Atlanta, GA
- 2015 Instructor: INFO 560 – Concepts and applications of Geographic Information Systems in Epidemiology, Department of Biostatistics and Bioinformatics, Rollins School of Public Health, Emory University, Atlanta, GA
- 2014- 2016 Instructor: MDP585 - GIS for development practice. Laney Graduate School, Master's in Development Practice Program, Emory University, Atlanta, GA

- 2013-2018 Lab Co-Instructor: EH 583/ENVS 385 – Spatial Analysis in Disease Ecology, Department of Environmental Health, Rollins School of Public Health, Emory University, Atlanta, GA
- 2009- 2020 + Instructor: INFO 530 - Geographic Information Systems, Department of Biostatistics and Bioinformatics, Rollins School of Public Health, Emory University, Atlanta, GA
- Spring 2005 + Teaching Assistant: VP 560 - Spatial Epidemiology  
Department of Veterinary Pathobiology, University of Illinois, Urbana, IL
- Fall 2001 + Teaching Assistant: VP 391 - Biostatistics  
Department of Veterinary Pathobiology, University of Illinois, Urbana, IL
- 1999 – 2000 Teaching Assistant: CHLTH 143 - Drug Use & Abuse  
Department of Community Health, University of Illinois, Champaign, IL

### **Workshops**

- 2019 Instructor: Workshop for the Use of Spatial Epidemiological and Entomological Data for *Aedes* Control, Pan American Health Organization (PAHO/WHO) Regional Office, Suriname. Paramaribo, Suriname May 13-17, 2019
- 2019 Instructor: Taller de capacitación para la elaboración de mapas de riesgo para apoyar el control focalizado de *Aedes aegypti* en áreas urbanas, Pan American Health Organization, Washington D.C., San Jose, Costa Rica. Mar 11-15, 2019
- 2016 Instructor: GIS for Global Epidemiology, Geography and Geospatial Science Working Group, CDC University: January 29, 2016
- 2016 Co-Instructor: Sistemas de Información Geográfica y Análisis Espacial en Salud Pública, Universidad de Yucatan Merida, Mexico, June 2016
- 2010 Instructor: Quantum GIS, Ministry of Public Health, Accra, Ghana, Fall 2010
- 2002 Instructor: Geographic Information Systems and Remote Sensing Workshop for Malaria and Schistosomiasis Researchers, ICIPE, Nairobi & Mombasa, Kenya, June 2002

### **Formal Tutoring**

- 1999 Tutor: STAT 208 - Basic Statistics, BIOS 308 - Cell Biology, Peer Assisted Learning Center, Northern Illinois University, DeKalb, IL (Spring 1999)

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## Mentoring & Advising

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### **Advisory Boards**

- 2020 Executive Steering Committee, GDPH/Emory COVID-19 Partnership
- 2016 Bioko Island Malaria Control Project (BIMCP)

### **Faculty & Professional Mentoring**

**K-Awards.** Geographic Information Systems and Spatial Analyses

- 2015-2016 Neela Goswami, MD (K-award), School of Medicine, Emory University, Atlanta, GA
- 2014-2015 Janet Cummings, PhD (K-award), Department of Health Policy and Management, Rollins School of Public Health, Emory University, Atlanta, GA

### **Humphrey Fellow**

- 2017-2018 Irma Burjanadze, MD. National HIV/AIDS program Coordinator. National Center for Disease Control and Public Health. Tbilisi, Georgia

## **International Doctoral Candidate & Doctoral Student Mentoring: Geographic Information Systems & Spatial Analyses**

§ denotes International advisee co-mentored with Dr. Uriel Kitron

\* denotes International advisee co-mentored with Dr Gonzalo Vazquez Prokopec

2018-2019	*Amanda Murphy, MSc (PhD Candidate) School of Biological Sciences, The University of Queensland, Brisbane, Australia
2018	§ Raqual Lima, MSc (PhD Student) in Epidemiology, Institute of Collective Health, Federal University of Bahia (UFBA), Salvador, Bahia, Brazil
2018	§ Vanio Mugabe, MSc (PhD Student) in Epidemiology, Institute of Collective Health, Federal University of Bahia (UFBA), Salvador, Bahia, Brazil
2017-18	§ Janeth Pérez Garcia (PhD Candidate), Colegio Santa Ines, Colombia
2016-17	§ Igor Paploski, DVM, MPH (PhD Candidate) in Epidemiology, Institute of Collective Health, Federal University of Bahia (UFBA), Salvador, Bahia, Brazil
2016-17	§ Mariana Kikuti, DVM, MPH (PhD Candidate) in Epidemiology, Institute of Collective Health, Federal University of Bahia (UFBA), Salvador, Bahia, Brazil
2017	§ Flávia Barros (PhD Student), PPGSAAM-Programa de Pós-Graduação Saúde Animal na Amazônia
2017	§ Francisco Sampaio Junior (PhD Student), PPGSAAM-Programa de Pós-Graduação Saúde Animal na Amazônia
2015-16	§ Oscar Quirós Gómez (PhD student), Grupo de Epidemiología y Bioestadística, Facultad de Medicina. Universidad CES, Medellín, Colombia.

### ***Domestic PhD Student Mentoring***

2020-present	Ian Hennessee, MPH (PhD Student) Gangarosa Department of Environmental Health, Rollins School of Public Health, Emory University. For: Georgia Department of Public Health-Emory University COVID-19 Response Collaboration.
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### ***PhD Committee Member***

2016	David Beredes, PhD (EH) Taking care of the backside: Aspects of the sanitation chain beyond the household toilet and their associations with fecal contamination in the public and private domains and enteric infection risk in children.
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### ***Academic Advisor***

2017-2019	Swati Sharma (INFO) Bioinformatics Program
2017-2019	Wenjie Mei (INFO) Bioinformatics Program
2015-2016	Alexandra Gordon (MDP, 1 <sup>st</sup> year) Master's in Development Practice Program
2015-2016	David Sabino (MDP, 1 <sup>st</sup> year) Master's in Development Practice Program
2015-2016	Melanie Aleman (1 <sup>st</sup> year) Master's in Development Practice Program
2015-2016	Paulita Bennett-Martin (2 <sup>nd</sup> year) Master's in Development Practice Program
2015-2016	Katherine Groenevelt (2 <sup>nd</sup> year) Master's in Development Practice Program
2015-2016	Ashley Reef (2 <sup>nd</sup> year) Master's in Development Practice Program

### ***Capstone Mentor***

2019	Matt Derrico (GEH) Assessing the Potential Accessibility to Public Latrines in Accra.
2019	Wenjie Mei (INFO) Spatial Clustering of Enteric Infections Among Young Children in Ifanadiana district, Madagascar
2018	Emily Ananthset (EH) Weather Patterns Associated with Dengue Spatial Distribution in Thailand
2017	J. Alex Edwards (INFO) HIV and Tuberculosis in South Africa

### **Capstone Co-Mentor**

- 2020 Stefano Rainiero Rosillo (EH) Geospatial Analysis of Dengue Virus (DENV) Seroprevalence in Mérida, Mexico (2015-2016): Development of a Baseline DENV susceptibility landscape.
- 2016 Kristen Stanfill (EH) Community Outreach and Mapping Regarding Green Infrastructure Implementation in the Proctor Creek Watershed.

### **Capstone Committee**

*(Note: INFO students do not take a formal class but have a mentor & committee member)*

- 2019 Swati Sharma, MPH (INFO) Identifying solutions to challenges associated with the adoption of an automated Workforce Allocation Optimization (WAO) tool
- 2018 Christian Enriquez, MPH (INFO) Spatial Weights Matrices and Their Applications

### **Field Advisor**

- 2012 Stephanie Gretsch (GH) Mapping water Drains in Four Neighborhoods in Accra, Ghana

### **MPH/MSPH Committee Member**

- 2019 Shaiana Oliveira, MPH (GEH) Analysis of Environmental Patterns and Leprosy in Minas Gerais, Brazil Using Spatial Statistics
- 2019 Nishanth Parameswaran, MPH (EPI) Spatial Distribution of Leprosy and Schistosomiasis and the Role of Coinfection in Leprosy Disease Severity in Minas Gerais, Brazil
- 2019 Cynthia Jones, MPH (EPI) Leprosy in the Wake of Helminth Immunomodulation: A study on the impact of deworming on leprosy outcomes in Vale do Rio Doce, Brazil
- 2019 Marissa Cummings, MPH (EH) Rodent Plague Surveillance and Species Diversity – Understanding Environmental Conditions Associated with an Epizootic Event, 2014 – 2018, Yosemite National Park, California
- 2019 Claire Hamaji, MPH (EH) A Spatial Analysis of Polybrominated Biphenyl Exposure in Michigan
- 2018 Megan Peterson, MPH (EPI) Spatial patterns of extensively drug-resistant tuberculosis and associations with sociodemographic factors in Durban, South Africa
- 2018 Adan Oviedo, MPH (EPI) Spatial Cluster Analysis of *P. vivax* and *P. malariae* Exposure Among Haitian School Children Sampled Between 2014 And 2016
- 2018 Mary (Lydia) McAliley, MPH (EH) Greenspace and Mortality in Metropolitan Atlanta, Georgia
- 2017 Remy Landon, MPH (EH) Urban Greenness and Birth Outcomes in Atlanta, Georgia
- 2017 Jessica Stephens, MPH (EPI) Spatial Associations of Leprosy and Schistosomiasis and Potential effects of this co-endemic helminth on the transmission of leprosy in Minas Gerais, Brazil
- 2017 Forest Altherr MPH (EPI) Integrating a Geographic Information System to Explore the Effect of Water, Sanitation, and Hygiene on Trachoma at Aggregate Spatial Scales
- 2017 Charles Haress, MPH (GH) Using Wearable GPS Technology to Quantify Occupation-Related Human Movement in a Remote Riverine Region of Hyperendemic Malaria Transmission
- 2016 Bryant Jones, MSPH (EH) Environmental Drivers of Rocky Mountain Spotted Fever in Tennessee
- 2013 Stephanie Gretsch, MPH (EPI) Quantification of Exposure to Open Drains in Low-Income Neighborhoods in Accra, Ghana: Implications for Microbial Risk Assessment
- 2011 Hillary Superak, MPH (BIOS) Analyzing Batting Patterns of Major League Baseball Players for Advance Scouting Reports: Using R to Generate High-Level Spatial Plots of PITCHf/x Data

### **Geographic Information Systems Mentor**

- 2011-12 Amanda Schaupp, MPH (EH) Center for Global Safe Water, Rollins School of Public Health, Emory University, Atlanta, GA: The Flooding of Urban Communities in Accra, Ghana

### **Safe Water and Sanitation (CGSW) Mentor/Advisor**

- 2016 Em Maier MPH (GEPI)

### **General Statistics**

- 2007-8 Aniset Kamanga, Malaria at Macha Institute, Macha Hospital, Zambia  
2007-8 Sandra Chishimba, Malaria at Macha Institute, Macha Hospital, Zambia

### **Undergraduate Mentoring:**

- 2017 Zavia Epps, Co-mentor REU summer experience, National Science Foundation  
2017 Margaret Newton, Co-mentor REU summer experience, National Science Foundation

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## Recognition & Awards

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### **Teaching Awards:**

- 2016 **Honorable Mention: Biostatistics Teaching Award.** Department of Biostatistics and Bioinformatics, Rollins School of Public Health, Emory University.  
2014 **Honorable Mention: Biostatistics Teaching Award.** Department of Biostatistics and Bioinformatics, Rollins School of Public Health, Emory University.  
Spring 2005 **University of Illinois “Incomplete List of Teachers Ranked as Excellent”** – Graduate Teaching Assistantship: Spatial Epidemiology  
Fall 2001 **University of Illinois “Incomplete List of Teachers Ranked as Excellent”** – Graduate Teaching Assistantship: Biostatistics

### **Research & Academic Awards:**

- 2005 **C.A. Herrick Award Honorable Mention.** Annual Conference of Midwestern Parasitologists, Crawfordville, IN.  
2004 **Dr. Joseph O. Alberts Award** - Outstanding graduate student achievement and research in veterinary medical science. College of Veterinary Medicine, University of Illinois at Urbana-Champaign.  
2004 **TerraSeer’s Annual Graduate Student Research Contest**  
2004 **6<sup>th</sup> Annual Conference on New and Re-emerging Infectious Diseases 3<sup>rd</sup> place Poster Award** – Center for Zoonoses Research, University of Illinois at Urbana-Champaign.  
Fall 1995 **Dean’s List,** Northern Illinois University

### **Travel Awards:**

- 2005 **Travel Award,** American Society of Tropical Medicine and Hygiene Meeting funded by National Institutes of Health/National Institute of Allergy and Infectious Diseases  
2005 **Travel Award.** Application of disease models to long-term population data Workshop & The Ecology and Evolution of Infectious Disease Conference, Fort Collins, CO.  
2003 **CSISS Workshop Scholarship** - “Accessibility in Space & Time: A GIS Approach”. Center for Spatially Integrated Social Science.  
2001 **University of Illinois Graduate College Travel Award** - Temporal trends of pediatric tuberculosis in Illinois. International Union Against Lung Disease North American Region, 6<sup>th</sup> Annual Conference.  
2001 **IUATLD Poster Abstract Award** (\$100 registration waiver) - Temporal trends of pediatric tuberculosis in Illinois. International Union Against Lung Disease North American Region, 6<sup>th</sup> Annual Conference.



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## Invited Moderator / Invited Speaker

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### Invited Moderator:

- 2010 **Discussion Panel Moderator.** “Foul Water Fiery Serpent”. Cielo Productions & Emory's Global Health Organization. September 14<sup>th</sup>.

### Invited Speaker:

- 2015-19 Summer Institute for Training in Biostatistics (SIBS), Emory University
- 2016 Featured Speaker & Panelist, Flint Water: What Happens When Regulations Fail? Center for Global Safe Water, Rollins School of Public Health, Emory University, March 23, 2016
- 2015 GIS Day Program, GRASP, Centers for Disease Control
- 2014-17 Geographic Information Systems International Course in Applied Epidemiology, Rollins School of Public Health, Emory University: October 2014, October 2015 October 2016, October 2017
- 2011-16 Introduction to Public Health Surveillance (GH/EPI 515), Instructor: Phillip Brachman, Emory University. “Geographic Information Systems in Public Health Surveillance”. April 19, 2011; April 24, 2012; April 23, 2013; April 2014, April 2015, March 22, 2016
- 2012 GH560: Monitoring and Evaluating Global Health Programs. Dr. Claire Null, Emory University. October 3, 2012
- 2011 Geographic Information Systems and Digital Mapping (ENVS 385), Emory University. “Applications of GIS for Epidemiology”. February 17.
- 2010 Fundamentals of Cartography and Geographic Information Systems (ENVS250), Emory University. “Applications of GIS for Ecology and Epidemiology”, October 9.
- 2010 Joint Biostatistics and Bioinformatics Departmental Seminar and Epidemiology Graduate Student Seminar: Adventures in Eco-epidemiology: Spatial Patterns of Schistosomiasis Infection and Intermediate Host Dispersal, September 30
- 2008 Centers for Disease Control Epidemic Intelligence Service Discussant. “Ecological Pattern Detection of Infectious Diseases” October 12.
- 2007 Comision Nacional de Actividades Espaciales, Cordoba, Argentina, “Advanced Training School in Landscape Epidemiology”. May 31.
- 2007 Landscape Ecology of Anopheline Mosquitoes in Macha, Zambia, JHSPH Postdoctoral Fellows Seminar Series. September 25.

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## Research Interests

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Temporal and spatial patterns of diseases, eco-epidemiology of vectorborne and zoonotic diseases, infectious disease epidemiology, vector dispersal, parasite ecology, waterborne diseases, neglected tropical diseases, healthcare accessibility

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## Professional Activities

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### Professional Memberships:

American Society of Tropical Medicine and Hygiene

### *Manuscript Reviewer*

American Journal of Tropical Medicine and Hygiene • Journal of Medical Entomology • Malaria Journal • International Journal of Health Geographics • Tropical Medicine and International Health • Scientific Data • PLOS-Neglected Tropical Diseases • Preventing Chronic Disease

**Guest Editor** - PLOS-Neglected Tropical Diseases

**Grant Reviewer** –2009 STEREO II programme "Support to the Exploitation and Research of Earth Observation data". Belgian Earth Observation Programme. Belgian Science Policy Office. Wetenschapsstraat 8 rue de la Science, B-1000 Brussels

**Departmental Service**

2019 Public Health Informatics Curriculum Committee

2019 Speaker: Lunch & Learn - Plagiarism

**Public Health Service**

2020-present Steering Committee, Geospatial Project Co-chair, Spatial Epidemiology Team Lead, Georgia Department of Public Health-Emory University COVID-19 Collaboration

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## Current Research Support

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05/01/20-04/31/23 NIH National Institutes of Health Jessica Fairley (PI)

**Identifying Risk Factors for Leprosy Transmission Related to Co-infections, Unsafe WASH and Undernutrition Using Novel Serologic Multiplex and High Resolution Metabolomic Assays.**

This project is an R01 to examine pathogen co-infections in relationship to WASH and nutritional status in Brazil.  
Role: Co-investigator (spatial epidemiologist)

10/01/19-09/30/20 Emory Synergy Grants Marcos Coutinho Schechter & Howard Chang (PI's)

**Transportation Vulnerability and Diabetic Foot Ulcers Outcomes.**

This project was a seed grant enabling our team to begin an across campus collaboration to begin a study examining the how transportation vulnerability is associated with the risk of foot ulcer amputations.

Role: Co-investigator

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## Completed Research Support

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08/01/16-07/31/17 Emory Global Health Institute Jessica Fairley (PI)

**Addressing the Public Health Threat of Neglected Tropical Diseases in Brazil: Focus on Leprosy and Schistosomiasis in Children.**

This project was a seed grant enabling our team to begin an across campus collaboration to begin a study examining the both aspatial and spatial factors associated with childhood infection with leprosy and schistosomiasis. \$34,052

Role: Co-investigator (spatial epidemiologist)

8/15-8/16 NIHIAI (5K23AI116388-02) Goswami,Neela D (PI)

**A Geospatial Approach to Target HIV-Infected Populations Poorly Engaged in Care**

This K-award project was looking for spatial clustering of HIV and/or tuberculosis infected patients in Atlanta metro-area.

Role: GIS mentor and Spatial Analyst

**Understanding Child Mental Health Services in the Public Safety Net**

This K-award project was examining geographic accessibility to mental healthcare.

Role: GIS mentor and Spatial Analyst

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## Public Health Organization Training Contracts

- 2018-2019 **Clennon J.** Taller de capacitación para la elaboración de mapas de riesgo para apoyar el control focalizado de *Aedes aegypti* en áreas urbanas, Pan American Health Organization. Washington D.C., \$9,000
- 2019 **Clennon J.** Temporary Advisor. Workshop for the Use of Spatial Epidemiological and Entomological Data for *Aedes* Control. Pan American Health Organization. Paramaribo, Suriname. \$750
- 2016 **Clennon J.** GIS for Global Epidemiology, Geography and Geospatial Science Working Group, CDC University: \$1,000.

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## Contributions to Public Health Policy

Provided assistance in conducting, interpreting and proposing locations for action based on spatial and temporal analyses of geocoded COVID-19 case data J. Michael Bryan, MPH, PhD, Director of Maternal and Child Health Epidemiology, Division of Health Protection/Epidemiology Section/Maternal and Child Health Epidemiology Unit, Georgia Department of Public Health.

Developed training materials and conducted in-country training for the implementation of policy for the Pan American Health Organization-World Health Organization. 2019-2020 for targeted control of *Aedes aegypti* mosquitoes in Central and South America.

Research on urinary schistosomiasis cited in Special Programme for Research and Training in Tropical Diseases. Scientific Working Group on Schistosomiasis, World Health Organization, Special Programme for Research and Training in Tropical Diseases. Report of the Scientific Working Group Meeting on Schistosomiasis: Geneva, 14-16 November 2005. World Health Organization, 2007, 114 pages

Developed potential species distribution map models for the Centers for Disease Control. Dr. Mark Benedict, Division of Parasitic Diseases. These maps were used in day to day decisions about allowing the transportation and movement of potential disease vector mosquitoes insectaries between countries. 2009-2011. One model was subsequently used by World Health Organization advisors (Dr. Willem Takken and Dr. Steve Lindsay Steve when *Anopheles stephensi* became invasive in Africa.

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## Public Health Organization Training Documents

1. Métodos de estratificación de riesgo para apoyar el control focalizado de *Aedes aegypti* en áreas urbanas” (“A description of the advantages and disadvantages of spatial risk stratification to support the targeted control of *Aedes aegypti* in urban areas”). 2019. Programa Regional de Entomología en Salud Pública y Control de Vectores Organización Panamericana de la Salud/OPS Organización Mundial de la Salud/OMS

2. Taller de capacitación para la elaboración de mapas de riesgo para apoyar el control focalizado de *Aedes aegypti* en áreas urbanas” (Workbook: The development of risk maps to support the targeted control of *Aedes aegypti* in urban areas). 2019. Programa Regional de Entomología en Salud Pública y Control de Vectores Organización Panamericana de la Salud/OPS Organización Mundial de la Salud/OMS

## Publications

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*\*Asterisk articles, chapters, books or presentations that were co-authored with a student (MPH/MSPH or PhD) or recent graduate*  
*§ Dollar sign indicates a co-authored article with a recent graduate which won the Centers for Disease Control Charles C. Shepard Science Award for the best manuscript on original research published by a CDC or ATSDR scientist in a reputable, peer-reviewed journal.*

### ***Pan American Health Organization Technical Documents:***

1. Pan American Health Organization. Technical document for the implementation of interventions based on generic operational scenarios for *Aedes aegypti* control. Washington, D.C.: PAHO; 2019. Authored by: P Manrique Saide, G Vazquez Prokopec, **J Clennon**, A Che-Mendoza. <http://iris.paho.org/xmlui/handle/123456789/51652>

### ***Peer-Reviewed Articles.***

1. \*Murphy AK, Clennon JA, Vazquez-Prokopec G, Jansen CC, Frentiu FD, Hafner LM, Hu W, Devine GJ. *In press.* Spatial and temporal patterns of Ross River virus in South East Queensland, Australia: identification of hot spots at the rural-urban interface. BMC Infectious Diseases. 10.21203/rs.3.rs-17309/v1.
2. Collins LF; Havers FP; Tunali A; Thomas S; **Clennon JA**; Wiley Z; Tobin-D'Angelo M; Parrott T; Read TD; Satola SW. 2019. Invasive Nontypeable *Haemophilus influenzae* Infection Among Adults With HIV in Metropolitan Atlanta, Georgia, 2008-2018., JAMA, 322: p. 2399 - 2410. doi: 10.1001/jama.2019.18800.
3. \*Sharpe, JD, **Clennon JA**. 2019. Pharmacy Functionality During the Hurricane Florence Disaster. Disaster Medicine and Public Health Preparedness. 1-10. 10.1017/dmp.2019.114.
4. §\*Peterson, M. L.; Gandhi, N. R.; **Clennon, J.**; Nelson, K. N.; Morris, N.; Ismail, N.; Allana, S.; Campbell, A. 2019. Extensively drug-resistant tuberculosis 'hotspots' and sociodemographic associations in Durban, South Africa. The International Journal of Tuberculosis and Lung Disease, Volume 23, Number 6, 1 June 2019, pp. 720-727(8)
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8. \*Pileggi SM, Jordan H, **Clennon** JA, Whitney E, Benbow ME, Merritt R, McIntosh M, Kimbirauskas R, Small P, Boakye D, Quaye C, Qi J, Campbell L, Gronseth J, Ampadu E, Opare W, Waller LA. Landscape and environmental influences on Mycobacterium ulcerans distribution among aquatic sites in Ghana. PLoS One. 2017 Apr 24;12(4):e0176375. doi: 10.1371/journal.pone.0176375. eCollection 2017. PMID: 28437439
9. Cummings JR, Allen L, **Clennon** J, Ji X, Druss BG. Geographic Access to Specialty Mental Health Care Across High- and Low-Income US Communities. JAMA Psychiatry. 2017 Apr 5. doi: 10.1001/jamapsychiatry.2017.0303. PMID: 28384733
10. Vazquez Prokopec G, BL Montgomery, P Horne, JA **Clennon** JA, SA Ritchie. 2017. Combining Contact Tracing with Targeted Indoor Residual Spraying Significantly Impacts Dengue Transmission. Science Advances. <http://advances.sciencemag.org/content/3/2/e1602024.full>
11. \*Berendes D, Kirby A; **Clennon** J, Raj S, Yakubu H, Leon J, Robb K, Kartikeyan A, Hemavathy P, Gunasekaran A, Ghale B, Kumar JS, Mohan, V, Kang, G, Moe C. 2017. All Toilets Are Not Created Equal: The Influence of Household- and Community-Level Sanitation and Fecal Sludge Management on Urban Fecal Contamination in Households and Drains and Enteric Infection in Children. Am J Trop Med Hyg. 2017 Jun 7; 96(6): 1404–1414. doi: 10.4269/ajtmh.16-0170
12. \*Gretsch SR, Ampofo JA, Baker KK, **Clennon** J, Null CA, Peprah D, Reese H, Robb K, Teunis P, Wellington N, Yakubu H, Moe CL. 2015. Quantification of Exposure to Fecal Contamination in Open Drains in Four Neighborhoods in Accra, Ghana. J Water Health. 2016 Apr;14(2):255-66. doi: 10.2166/wh.2015.138.
13. \*Castelló A, I. Río, G. López-Abente, P. Fernández-Navarro, J. García-Pérez, L.A. Waller, J. A. **Clennon**, M. Sandín-Vázquez, F. Bolúmar. 2014. Geographical variations in the risk of adverse birth outcomes in Spain. International Journal of Environmental Science and Technology: Volume 11, Issue 5, Pg 1481-1486.
14. \*Castelló A, Río I, García-Pérez J, Fernández-Navarro P, Waller LA, **Clennon** JA, Bolúmar F, López-Abente G. 2013. Adverse birth outcomes in the vicinity of industrial installations in Spain 2004-2008. Environ Sci Pollut Res Int. doi: 10.1007/s11356-012-1444-5
15. Moss WJ, H Hamapumbu, T Kobayashi, T Shields, A Kamanga, J **Clennon**, S Mharakurwa, Philip E Thuma, G Glass. 2011. Use of remote sensing to identify spatial risk factors for malaria in a region of declining transmission: a cross-sectional and longitudinal community survey. Malaria Journal, 10:163 doi:10.1186/1475-2875-10-163
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21. Kariuki CH, **Clennon** JA, Brady MS, Kitron U, Sturrock RF, Hoffman O, Hamburger J, Ouma J, Tosha S, Ndzovu M, Mungai P, Pellegrini C, Muchiri E, and King CH. 2004. Distribution patterns and cercarial shedding of *Bulinus nasutus* and other snails in Msambweni Area, Coast Province, Kenya. Am. J. Trop. Med. Hyg. 70(4): 449-456.
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### **Chapters.**

1. Kitron U, **Clennon** JA, Gulner RE, King CK, Cecere MC, Vazquez-Prokopec G, Thornhill J, Beck L. 2006. Application of fine resolution satellite data to spatial analysis and control of infectious diseases: Schistosomiasis in Kenya and Chagas disease in Argentina. In: Confalonieri UEC (ed) Interamerican Workshop on the use of Remote Sensing for the control of Infectious Diseases.

### **Maps.**

1. **Clennon** J. HCV Seroprevalence in U.S. state prison system. In: AC Spaulding, EJ Anderson, MA Khan, CA Taborda-Vidarte, JA Phillips. 2017. HIV and HCV in U.S. Prisons and Jails: The correctional facility as a bellwether over time for the community's infections. Volume 19(3).
2. **Clennon** J. 2012. Distribution of Buruli Ulcer in Ghana, In: Alan Magill/ Hunter's Tropical Medicine and Emerging Infectious Diseases/ 9e, Elsevier Inc.
3. **Clennon** J, Kitron U, Lippold A, McTighe T, Norris D, Ruiz MO. 2004. Spatial Analysis and Mapping of West Nile Virus in Illinois. Environmental Systems Research Institute Map Book, Volume 19, Map 301.

### **Published Papers.**

1. Ruiz, M.O., W.M. Brown, J.A. **Clennon** 2006. Weather conditions and West Nile virus in Illinois. ESRI online: [http://proceedings.esri.com/library/userconf/proc06/papers/papers/pap\\_1458.pdf](http://proceedings.esri.com/library/userconf/proc06/papers/papers/pap_1458.pdf)

### **Selected Published Abstracts.**

1. \*Berendes D, J Leon, A Kirby, J **Clennon**, Suraja Raj, H Yakubu<sup>1</sup>, Katharine Robb, A Kartikeyan, P Hemavathy, A Gunasekaran, BC Ghale, JSl Kuma, VR Mohan, G Kang, C Moe. 2016. Risk Factors for Pediatric Enteric Infection in a Low-Income Urban Neighborhood: Examining the Contributions of the Household Environment, Neighborhood Geography and Exposure Behaviors in Vellore, India. ASTMH
2. \*Stephens JL, LM Demondersert, M Souza, JA Ferreira, LA Fraga, UD Kitron, JA **Clennon**, JK Fairley. 2016. Geospatial Analysis of Leprosy and Schistosomiasis: A Novel View of NTDs to Guide Control in Endemic Areas. ASTMH
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6. Goswami ND, J McMichael, D Rane, J Kelly, J **Clennon**, C del Rio, T Sanchez. 2016. A Novel Practical Spatial Analysis of HIV Care Outcomes, Metro Atlanta, 2012-2014. Conference on Retroviruses and Opportunistic Infections. February 22-25, 2016 Boston, Massachusetts
7. Williamson H, E Anaganou, Y Baroqui , C Darr, E Benbow, J Wallace, M Nichter, G Sopoh, C Johnson, M McIntosh, JA **Clennon**, L Waller, R Merrit, and PL Small. 2015. Eight Years in Lalo Commune, Benin; What have we learned about the demography of Buruli ulcer, *Mycobacterium ulcerans* and transmission? World Health Organization Buruli Ulcer Meeting
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9. Mutuku F, King CH, Mungai P, Muchiri E, **Clennon J**. 2010, Uriel Kitron Impact of drought on the spatial pattern of transmission of *Schistosoma haematobium* in coastal Kenya. American Society of Tropical Medicine and Hygiene Annual Meeting in Atlanta. November 3 -7.
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11. Whitney EAS, **Clennon J**, McClintock S, Waller LA. 2010. Bridging the BU Divide: Surveillance, Transmission, Ecology, and Control. WHO Annual Meeting on Buruli Ulcer, Geneva, Switzerland. March 22–24.
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13. Fornadel CM, Habbanti S, Musapa M, **Clennon JA**, Norris DE. 2008. Evaluation of the indoor and outdoor blood feeding behavior of *Anopheles arabiensis* in an area with high insecticide treated bed net use in southern Zambia. American Society of Tropical Medicine and Hygiene Annual Meeting in New Orleans. December 7-11.
14. **Clennon JA**, Kamanga A, Musapa M, Shiff C, Glass G. 2008. Identifying malaria vector breeding habitats with remote sensing data and terrain-based landscape indices in Zambia. American Society of Tropical Medicine and Hygiene Annual Meeting in New Orleans. December 7-11.
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17. **Clennon JA**, Mungai PL, Muchiri EM, King CH, Kitron U. 2006. Local variations in *Schistosoma haematobium* transmission in Msambweni, Kenya. Amer. J. Trop. Med. Hyg. 75(5): 213.
18. Ruiz M, Brown W, **Clennon J**. 2006. Weather Conditions and West Nile Virus in Illinois. 2006 ESRI International User Conference Proceedings: Health and Human Services.
19. Ruiz M, Brown, **Clennon J**. 2006. Precipitation and West Nile virus infection: Implications for disease surveillance and modeling. Infectious Disease Informatics: Surveillance, Modeling, and Response, Sept. 7-8, 2006, Urbana, IL.
20. **Clennon JA**, Masemo IA, Muchiri E King CH, Kitron U. 2005. The dispersal potential of *Bulinus nasutus* in coastal Kenya. Amer. J. Trop. Med. Hyg. 73(6): 46-47.
21. **Clennon JA**. 2005. Dispersal cost analysis of snail intermediate hosts of *Schistosoma haematobium* in coastal Kenya. 4th International Congress of Vector Ecology.
22. **Clennon JA**, Muchiri E, King CH, Kitron U. 2005. Aquatic habitat connectivity and the dispersal potential of *Bulinus nasutus* snails in coastal Kenya. 7<sup>th</sup> Annual Conference on New Emerging and Re-emerging Infectious Diseases. April 21-22, 2005.
23. **Clennon JA**, Bundi R, Sturrock RF, Mungai P, Muchiri E, King CH, Kitron U. 2004. Dispersal pathways of *Schistosoma haematobium* intermediate host snails in coastal Kenya. Amer. J. Trop. Med. Hyg. 71(4): 447.
24. Ruiz M, Mctighe T, Kitron U, **Clennon J**, Norris D, Lippold A. 2003. West Nile Mapping and analysis in Illinois. 6<sup>th</sup> Annual Conference on New Emerging and Re-emerging Infectious Diseases. April 24-25, 2003. pg 26.
25. Kariuki HC, Muchiri EM, Tosha S, Ngonyo AC, Ndzovu M, Mungai P, Ouma JH, Sturrock RF, Hamburger J, **Clennon JA**, Brady MS, Kitron U, King CH. 2003. Rainfall dynamics and snail populations in Msambweni Area, Coastal Province, Kenya. Amer. J. Trop. Med. Hyg. 69(3): 515.
26. **Clennon JA**, Kitron U, Muchiri EM, Kariuki HC, Mungai P, Sturrock RF, King CH. 2003. Spatial clustering of urinary schistosomiasis infections by age and sex for a highly endemic area in coastal Kenya. Amer. J. Trop. Med. Hyg. 69(3): 515.
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28. Kariuki C, Muchiri E, Ngonyo AC, Masemo I, Mungai P, Tosha S, Sturrock B, **Clennon J**, Kitron U, Ouma J, King CH. 2002. Spatial and temporal patterns of snail (*Bulinus africanus*) distribution in an endemic urinary schistosomiasis focus in coastal Kenya. Amer. J. Trop. Med. Hyg. 67(2): 347.

29. **Clennon** JA, Muchiri E, Kariuki C, Sturrock R, Mungai P, King CH, Kitron U. 2002. The spatial distribution of urinary schistosomiasis infections among households in a high prevalence village on the southern coast of Kenya. *Amer. J. Trop. Med. Hyg.* 67(2): 346.
30. **Clennon** JA and Arbise M. 2001. Temporal trends of pediatric tuberculosis in Illinois. International Union Against Tuberculosis and Lung Disease, North American Region, 6<sup>th</sup> Annual Conference: TB in the Third Millennium – Mobilizing for Elimination.
31. **Clennon** JA. 1996. Positional behavior and related tail use in *Cebus capucinus*. *Amer. J. Phys. Anth. Supplement* 23.
32. Foss S, **Clennon** JA, and Parrish M. 1996. Quantitative paleoecology and taphonomy of the Lower Scenic Member of the Brule Formation, Lunch Table Butte, Badlands National Park. Northern Great Plains and Rocky Mountain Symposium.
33. **Clennon** JA and Gebo DL. 1995. Positional behavior in *Cebus capucinus*. *Amer. J. Phys. Anth. Supplement* 22.

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## Advanced Training

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| 2009 | Introduction to Bayesian Disease Mapping. Andrew Lawson, Medical University of South Carolina.   |
| 2006 | ESRI Workshops & Courses: Exploring the VBA Environment; Working with Variables and Functions in VBA; Working with Forms in VBA; Understanding Branching and Looping in VBA; Introduction to Visual Basic 6                                  |
| 2005 | Application of disease models to long-term population data Workshop sponsored by the NSF-IGERT, PRIMES, the Department of Biology and the Department of Microbiology, Immunology & Pathology at Colorado State University, Fort Collins, Co. |
| 2004 | Satellite Imagery Processing – Brad Lobitz, NASA-CHAART, CA.   |
| 2003 | CSISS Workshop - “Accessibility in Space & Time: A GIS Approach”. Center for Spatially Integrated Social Science. Columbus, OH   |
| 2002 | ICTDR ArcPad Pocket PC Course. NIH-ICTDR, NASA-CHAART, and ESRI Health & Human Services Solutions Group. Denver, CO  |
| 2020 | Emory College Online Teaching Strategies (June 10-July 5, 2020)  |

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## Media

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- Locating Malaria Danger Zones with Landsat and SRTM. LandSat Science. <https://landsat.gsfc.nasa.gov/locating-malaria-danger-zones-with-landsat-and-srtm/> Nov 5, 2010
- Running Rings Around Malaria, [https://magazine.jhsph.edu/2011/malaria/\\_pdf/features.pdf](https://magazine.jhsph.edu/2011/malaria/_pdf/features.pdf)
- Rollins Responds. <https://news.emory.edu/features/2020/06/rollins-responds/> Jun 2020