# CARLOS F. MENA

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## Bio-Sketch

Dr. Carlos F. Mena is the Founding Director of the USFQ Institute of Geography and Founding Co-Director of the Galapagos Science Center. Carlos F. Mena is Professor of Geography in the School of Biological and Environmental Sciences at USFQ and Adjunct Professor of Geography at the University of North Carolina at Chapel Hill. He is also Founding Member of the Ecuadorian Association of Geographers, and he is an elected member of the Ecuadorian Academy of Sciences. Carlos F. Mena obtained his Ph.D. in Geography from the University of North Carolina at Chapel Hill, USA and has been conducting research in the Amazon and Galapagos Islands for more than twenty years.

Since 2010, Carlos F. Mena co- created, developed, and leads the Galapagos Science Center (GSC), in association with the University of North Carolina at Chapel Hill. The GSC is an interdisciplinary research center on San Cristobal Island in the Galapagos Archipelago of Ecuador for the advancement of science, conservation, and sustainable development of the Galapagos and Ecuador. The GSC is an administrative, logistical, and scientific structure designed to promote research, education, and community development in the Galapagos Islands. The GSC, dedicated in 2011 and ~2200$m^2$ in size, houses four unique laboratories: terrestrial ecology, marine ecology, micro- and molecular-biology, spatial analysis, and has spaces for community events and classrooms. GSC develops more than 60 projects per year, working with more than 40 principal investigators, and has a permanent staff of 16 people. Mena also co-created and manages the International Galapagos Science Consortium, a network of international universities, that develops research projects in the Galapagos Islands through the Galapagos Science Center. The consortium now includes James Cook University and the University of the Sunshine Coast, Australia as well as the University of South Alabama and North Carolina State University, beginning January 2023., USA.

The USFQ Institute of Geography (USFQ-IG), created by Carlos F. Mena in 2016, is an interdisciplinary space at the Universidad San Francisco de Quito to foster geographic research and

education in Ecuador. It employs eight full time spatial analysts and encompasses 14 projects developed in the Ecuadorian and Peruvian Amazon and the Choco region of Ecuador.

Carlos F. Mena has won several prestigious academic honors, including, the Earth Systems Science Fellowship from the US National Aeronautics Space Administration (NASA), the pre-Doctoral Traineeship from the US National Institutes of Health (NIH), Fogarty International Center, and the Anne U. White Fund Grant from the Association of American Geographers (AAG). Mena is co-editor of the book series "Social and Ecological Interactions in the Galapagos Islands," published by Springer Science and Business Media, now Springer Nature, with ten volumes in print. Carlos F. Mena has authored and co-authored more than 60 peer review publications (papers and book chapters) and has co-edited three books.

Through a portfolio of research projects, his research has covered topics of coupled human-environment systems, demography and environment, remote sensing and geographic information science, complex adaptive systems, population geography, conservation of tropical forests, political ecology, citizen science, climate change, and community development. Carlos Mena's research has been funded by organizations, such as, USAID, US Department of State, the US National Academy of Sciences, and International Organizations, such as, the Netherlands Organization for Scientific Research (NWO), the Inter-American Institute for Global Change, the Ecuadorian Government, among others. Currently, Mena has been awarded a grant to assemble a Latin American HUB to study the second order effects of the COVID19 pandemics, funded by the US State Department and the Association of American Geographers.

## EDUCATION

**University of North Carolina at Chapel Hill, USA**
Ph.D., Geography, 2007
Graduate Certificate in International Development, 2006

**Florida International University, Miami, FL, USA**
M.Sc., Environmental Studies, 2001

**Escuela Politécnica del Ejército, Quito, Ecuador**
Geographic and Environmental Engineer, 1999

## PROFESSIONAL EXPERIENCE

**Universidad San Francisco de Quito, Ecuador**
Professor, School of Biology and Environmental Sciences, 2008-Present
Director, USFQ Campus in the Galapagos Islands, 2021-Present
Co-Director, Galapagos Science Center, 2010-Present
Director, USFQ Institute of Geography, 2016-Present
Director, Graduate Program in Tropical Ecology, 2009, 2014-2015.

**University of North Carolina at Chapel Hill**
Post-Doctoral Researcher, Department of Geography, Fall 2007
Teaching Fellow, Department of Geography, Fall 2006
Research Assistant, Department of Geography & Carolina Population Center, 2002-2007

**Florida International University.**
Research Assistant, Andean Amazon Rivers Analysis and Management Project (AARAM), 2000-2002

**EcoCiencia, Fundación de Estudios Ecológicos.** Quito, Ecuador.
Geographical Analyst, 1998-1999

## SELECTED RECOGNITION & RESPONSIBILITIES

- Recognition Award, *10-Years Anniversary of the Galapagos Science Center,* Universidad San Francisco de Quito, 2022.
- Board Member, *Tiputini Biodiversity Station*, Universidad San Francisco de Quito, 2019 – 2024.
- Member, Science Panel for the Amazon: a scientific panel to advise The United Nations in topics related to the Amazon Basin. *Sustainable Development Solutions Network & Academia Brasileira de Ciencias*. 2019-2021.
- International Advisor, Board of Directors. *The International Institute of Social Studies* at Erasmus University, Rotterdam, Netherlands. 2019.
- Leading Author, IPCC Special Report on "Climate Change, Desertification, Land Degradation, Sustainable Land Management, Food Security, and Greenhouse Gas Fluxes in Terrestrial Ecosystems". *Inter-governmental Panel on Climate Change - IPCC*. 2017-2019
- Leading Author, Assessment on Adaptation Actions to Climate Change in the RIOCC Countries. *Iberoamerican Network of Climate Change Offices*. 2017
- Founding Member, *Ecuadorian Association of Geographers*, 2016
- National Association of Foreign Student Affairs (NAFSA), Association of International Educators. *Senator Paul Simon Spotlight Award* for the Galapagos Initiative collaborative partnership between UNC-Chapel Hill and the Universidad San Francisco de Quito and the development of the Galapagos Initiative (CF Mena & SJ Walsh, Program Founders & GSC Co-Directors), 2016
- Elected Member, 2014. Board 2019-2020. *Ecuadorian Academy of Sciences*, 2014
- Journal of Geography Award. Best paper in Geographical Education. *US National Council for Geographical Education*. 2015.
- Member, Steering Committee 2008-2010. *International Geographic Union*, Land Use and Land Cover Commission.

- Earth Systems Science Fellowship. *US National Aeronautics & Space Administration* (NASA), 2004-2007
- Pre-Doctoral Traineeship. *NIH Fogarty International Center - Carolina Population Center*, 2002-2004
- Anne U. White Fund Grant. *Association of American Geographers*, 2006
- Residency Grant. Mellon Foundation - *Carolina Population Center*, 2005
- Future Faculty Fellowship. U*NC Center for Teaching and Learning*, 2006
- Pre-Dissertation Fieldwork Award. *UNC Institute Latin American Studies* - The Tinker Foundation, 2004
- NSF-IGERT Travel Grants. IGERT Program. *Carolina Population Center* - National Science Foundation, 2004-2007
- Latin America and Caribbean Scholarship, *Florida International University*, 2000-2001

## RESEARCH GRANTS AND CONTRACTS (Selected)

Principal Investigator. *MapGive Participatory Mapping Partnerships – Latin America Hub.* American Association of Geographers (AAG), U.S. Department of State. 10/2021-10/2022. US$40,812.

Co-Principal Investigator. *Improving Response to Malaria Outbreaks in Amazon-Basin Countries (Geo-malaria).* US National Institutes of Health, Subcontract with Duke University (Pan W., PI). 11/2021 – 8/2026. $265,330

Principal Investigator. *Latin American Hub: Cities' Covid Mitigation Mapping (C2M2) Program*. American Association of Geographers (AAG), U.S. Department of State. 11/2020-11/2021. US$158,000.

Co-Principal Investigator. Reducing the Impacts of Plastic Waste in the Eastern Pacific Ocean. UK Research and Innovation, Subcontract with University of Exeter (Walloway T, PI). 8/2021-8/2025. US$314,673

Principal Investigator. *All Eyes in the Amazon (AEA) Northeast Ecuador Site*. HIVOS. 07/2018 – 03/2022. US$401,000.

Co-Principal Investigator. *Barcoding Galapagos: Recording and Mitigating Covid-19 Impacts Using Key-Workers in Eco-Tourism.* UK Research and Innovation, Subcontract with University of Exeter (Russell A, Bonneaud C, Chaves J, Pazmiño D, Co-PIs). 8/2021 – 11/2021. US$825,613

Principal Investigator. *Proposal Development for the Green Climate Fund (GCF) for the Adaptation to Climate Change of the Galapagos Islands*. The Food and Agriculture Organization of the United Nations (FAO) and the Ecuadorian Government. 12/2019 – 12/2020. US$40,000.

Principal Investigator. *Development Plans, Territorial Zoning and Livelihood Planning in the Northern Ecuadorian Amazon*. United Nations Development Program (UNDP). 12/2019 - 08/2020. US$571,100.

Principal Investigator. Community-Based Monitoring: Biodiversity, Climate and Oil Pollution in the Ecuadorian Amazon. INEDITA Program. SENESCYT and United Nations Development Program. 6/2019 – 6/2022. US$200,000.

Principal Investigator. Community-based Early Warning System for Malaria: Linking Climate Change, Migration and Deforestation. INEDITA Program. SENESCYT and United Nations Development Program. 6/2019 – 6/2021. US$49,900.

Principal Investigator. *Mapping Urban Vulnerability and Resilience: Water, Structural Poverty and Social Cohesion in Esmeraldas City of Ecuador*. Secondary Cities Program. US State Department and the American Association of Geographers (AAG). 9/2017-9/2019. US$250,000.

Co-Principal Investigator. *Behavioral Responses to Information on Contaminated Drinking Water: Evidence from the Ecuadorian Amazon*. International Initiative for Impact Evaluation (3ie), subcontract with the International Institute for Social Studies *(*Pellegrini L, Arsel M, Orta M, co-PIs). 1/2016-12/2017. US$99,500.

Co-Principal Investigator. *Community Monitoring of Socio Environmental Liabilities with Advanced Technologies in Ecuador and Peru*. International Initiative for Impact Evaluation (3ie). Subcontract with the International Institute for Social Studies. *(*Pellegrini L, Arsel M, Orta M, co-PIs). 10/2016 – 8/2018. US$64,000.

Co-Principal Investigator. *An Early Warning System for Vector-borne Disease Risk in the Amazon*. The National Aeronautics & Space Administration. Sub-contract with Duke University (Pan W, PI). 8/2015 – 7/2018. US$29,000.

Co-Principal Investigator. *Land Use and Infectious Disease in Western Amazon*. Inter-American Institute for Global Change Research – IAI. Subcontract with Universidade Federal de Minas Gerais (Barbieri A, Pan W, Miranda J, Co-PIs). 7/2013-7/2018. US$211,000.

Co-Principal Investigator. *Improving University Education and Research on the Ecuadorian Amazon: A New Partnership*. USAID Initiative for the Conservation for the Andean Amazon (ICAA). Subcontract with University of North Carolina at Chapel Hill (Bilsborrow RE, Walsh SJ, Co-PI). 1/2013-06/2015, $326,000

Co-Principal Investigator. *Nationalization of Natural Resources, Cooperation and Conflict in Bolivia and Ecuador*. Netherlands Organization for Scientific Research (NWO), Subcontract with HIVOS (Murshed SM, Arsel M, Pellegrini L, van de Schoot T, Gruenberger J., Co-PIs). 04/2014 – 06/2016. US$324,200

Co-Principal Investigator. *Tourism Growth Scenarios and Impacts in the Galapagos Islands*. Ministry of Environment of Ecuador & World Wildlife Fund (Walsh SJ, Co-PI). 03/2014 – 03/2016. US$80,000

Principal Investigator. *Impacts of Glyphosate in the Ecuadorian Amazon*. Foley and Hoag, LLC for the Ecuadorian Government. 01/2013 – 12/2015. US$30,000

Principal Investigator. *REDD based Forest Expansion, Food Consumption, and Reduced Emissions Agricultural Policies in the Ecuadorian Amazon*. PEER Program: US National Academies of Science, US National Science Foundation, USAID. 6/2012 – 6/2015. US$136,500

Co-Principal Investigator. *Modeling Population-Environment Interactions in a World Heritage Site: Comparison of Statistical and Agent Based Modeling Approaches to Study Complex Systems*. James S. McDonnell Foundation (Walsh SJ, PI). Sub-Contract with the University of North Carolina at Chapel Hill, 1/2012 – 1/2015. US$30,000

Principal Investigator. *Atlas of Culture of Ecuador*. Ministry of Culture of Ecuador and Spanish Cooperation Agency. 1/2009 – 12/2009. US$51,200

## PUBLICATIONS

### *BOOK SERIES, EDITOR: Springer Nature*

Launched a Book Series on the Galapagos Islands, "Social, Terrestrial, and Marine Interactions in the Galapagos Islands," with Springer Nature, SJ Walsh and CF Mena, Series Editors, books in the Series are as follows:

Walsh SJ & **Mena CF** (Guest Editors), 2013. Science and Conservation in the Galapagos Islands – Frameworks & Perspectives. In the Galapagos Book Series, *Social, Terrestrial, and Marine Interactions in the Galapagos Islands* (Walsh SJ & Mena CF, Series Editors), Springer Nature, 243p.

Trueba G. & Montufar C. (Guest Editors), 2013. Evolution from the Galapagos: Two Centuries after Darwin. In the Galapagos Book Series, Social, Terrestrial, and Marine Interactions in the Galapagos Islands," (SJ Walsh & CF Mena, Series Editors), Springer Nature, 168p.

Denkinger J, Vinueza L. (Guest Editors), 2014. The Galapagos Marine Reserve: a Dynamic Social-Ecological System. *In: the Galapagos Book Series, Social, Terrestrial, and Marine Interactions in the Galapagos Islands* (Walsh SJ and Mena CF, Series Editors), Springer Nature, 314p.

Quiroga D, Sevilla A. (Guest Editors), 2016. Darwin, Darwinism and Conservation in the Galapagos Islands. *In: the Galapagos Book Series, Social, Terrestrial, and Marine Interactions in the Galapagos Islands* (Walsh SJ and Mena CF, Series Editors), Springer Nature, 164p.

Parker, PG (Guest Editor), 2018. Disease Ecology: Galapagos Birds & Their Parasites. *In: the Galapagos Book Series, Social, Terrestrial, and Marine Interactions in the Galapagos Islands* (Walsh SJ and Mena CF, Series Editors), Springer Nature, 330p.

Tyler, M.E. (Guest Editor), 2018. Sustainable Energy Mix in Fragile Environments – Frameworks and Perspectives. *In: the Galapagos Book Series, Social, Terrestrial, and Marine Interactions in the Galapagos Islands* (Walsh SJ and Mena CF, Series Editors), Springer Nature, 205p.

Torres, M.L. & Mena, C.F. (Guest Editors), 2018. Understanding Invasive Species in the Galapagos Islands: From the Molecular to the Landscape. *In: the Galapagos Book Series, Social, Terrestrial, and Marine Interactions in the Galapagos Islands* (Walsh SJ and Mena CF, Series Editors), Springer Nature, 237p.

Kvan, T. & Karakiewicz, J.A. (Guest Editors), 2019. Urban Galapagos -- Transitions to Sustainability in Complex Adaptive Systems. *In: the Galapagos Book Series, Social, Terrestrial, and Marine Interactions in the Galapagos Islands* (Walsh SJ and Mena CF, Series Editors), Springer Nature.

Walsh, S.J., Riveros-Iregui, D., Arce-Nazario, J., Page, P.H. 2020. Land Cover/Land Use Change on Islands: Threats to Sustainability *In: the Galapagos Book Series, Social, Terrestrial, and Marine Interactions in the Galapagos Islands* (Walsh SJ and Mena CF, Series Editors), Springer Nature.

Thompson, A.J., Ochoa-Herrera, V., Teran, E., 2022. *Water, Food, and Human Health in the Galapagos Islands: A Little World Within Itself*. "Social and Ecological Interactions in the Galapagos Islands" (SJ Walsh, CF Mena, Series Editors), Springer Nature.

Walsh, S.J., Mena, C.F., Stewart, J.R., Munoz, J.P., Forthcoming 2023. *Island Ecosystems: Challenges to Sustainability*. "Social and Ecological Interactions in the Galapagos Islands" (SJ Walsh, CF Mena, Series Editors), Springer Nature.

## ***EDITED BOOKS***

Walsh SJ and **Mena CF**, Editors (2013) *Science and Conservation in the Galapagos Islands: Frameworks and Perspectives*. Springer Science & Business Media. New York.

Torres ML and **Mena CF**, Editors (2018) *Understanding Invasive Species in the Galapagos Islands: From the Molecular to the Landscape*. Springer Science & Business Media. New York.

Encalada AC, Guayasamin JM, Suárez E, **Mena CF**, et al. (2019). *Los ríos de las cuencas Andino-Amazónicas: Herramientas, y guía de invertebrados para el diseño efectivo de programas de monitoreo*. Trama, Quito, 224 pp

Walsh, S.J., Mena, C.F., Stewart, J.R., Munoz, J.P., Editors, (Forthcoming 2023). *Island Ecosystems: Challenges to Sustainability*. "Social and Ecological Interactions in the Galapagos Islands" (SJ Walsh, CF Mena, Series Editors), Springer Nature.

***PEER REVIEWED PUBLICATIONS***

**Mena CF**, Benitez FL, Jager H, Carrion C, Escobar D, Rosero P, Maldonado P, Cuesta F (In Review). Modeling of invasive species and restoration in the context of climate change: the case of guava in the Galapagos Islands. *Annals of the American Association of Geographers*

Orta-Martinez M, Arsel M, Pellegrini M, **Mena CF**. (In review). Barriers to redress of environmental harm from oil extraction in the Amazon. *Environmental Research Letters*

Orta-Martínez M, Arsel M, Pellegrini L, Muñoa G, **Mena CF** (Accepted). Unburnable fossil fuels and Climate Finance: compensation for right holders. *Global Environmental Politics*

**Mena CF**, Lozada B, Martinez P, Benitez FL, Sampedro C, Zapata MB (In Press). COVID19 and Domestic Violence Complaints in Quito, Ecuador: Temporal and Spatial Patterns, and Drivers, in: Laituri M, Richardson BR, Kim J (Editors). *The Geographies of COVID-19: Geospatial of Global Pandemics.* Springer Nature, New York.

Márquez, S.; Prado-Vivar, B.; Guadalupe, J. J.; Becerra-Wong, M.; Gutierrez, B.; Fernández-Cadena, J. C.; Andrade-Molina, D.; Morey-Leon, G.; Moncayo, M.; Guevara, R.; Coloma, J.; Trueba, G.; Grunauer, M.; Barragán, V.; Rojas-Silva, P.; Cárdenas, P.; Ramones, A.; Tino, A.; Carrera, A.; Macias, A.; Garcia, A.; Guerrero, C.; **Mena, C.F**, *et al.* (2022) *SARS-CoV-2 genome sequencing from COVID-19 in Ecuadorian patients: A whole country analysis*. medRxiv

**Mena CF**, Benitez FL, Sampedro C, Martinez P, Quispe A, Laituri M. (2022). Modeling Urban Growth and the Impacts of Climate Change: The Case of Esmeraldas City, Ecuador. *Sustainability*. 14(8):4704.

Lee, GO, Vasco L, Márquez S, Zuniga-Moya JC, Van Engen A, Uruchima J, Ponce P, Cevallos W, Trueba G, Trostle J, Berrocal VJ, Morrison AC, Cevallos V, **Mena CF**., Coloma J, Eisenberg JNS. (2021). A dengue outbreak in a rural community in Northern Coastal Ecuador: An analysis using unmanned aerial vehicle mapping. *PLoS Neglected Tropical Diseases*, 15 (9), e0009679.

Paltan H, Benitez FL, Rosero P, Esbobar—Camacho D, Cuesta F, **Mena CF** (2021). Climate of the Galapagos Archipiealgo: Present and Future Trends. *Scientific Reports* 11, 14465

Escobar-Camacho D, Rosero P, Castrejón M, **Mena CF**, Cuesta F (2021). Prioritizing key conservation areas to increase the resilience and adaptive capacity in oceanic islands: the case of the Galapagos Archipelago. *Regional Environmental Change* 21 (2), 1-26

Pellegrini L, Arsel M, **Mena CF**, Muñoa G. (2020). Institutional mechanisms to keep unburnable fossil fuel reserves in the soil. *Energy Policy* 149, 112029

Gunderson AK, Kumar RE, Recalde-Coronel C, Vasco LE, Valle-Campos A, **Mena CF**, Zaitchik BF, Lescano AG, Pan WK, Janko MM. (2020). Malaria transmission and spillover across the Peru-Ecuador border: a spatio-temporal analysis. *International Journal of Environmental Research and Public Health* 17(20):7434.

**Mena CF**, Quiroga D, Walsh SJ. (2020). Threats to sustainability in the Galapagos Islands: a socioecological perspective. In: Sarmiento FO and Frolich LM (Editors), *International Handbook of Geography and Sustainability*. Edward Elgar Publishing, UK

Pellegrini L, Arsel M. Orta-Martínez M, **Mena CF**. (2020). International Investment Agreements, Human Rights, and Environmental Justice: The Texaco/Chevron Case from the Ecuadorian Amazon. *Journal of International Economic Law* 23(2):455-468.

**Mena CF**, Paltán H, Benitez FL, Sampedro C, Valverde M. (2020). Threats of Climate Change in Samall Oceanic Islands: The case of Climate and Agriculture in the Galapagos Islands, in Walsh, S.J., Riveros-Iregui, D., Arce-Nazario, J., Page, P.H., *Land Cover/Land Use Change on Islands: Threats to Sustainability,* Springer Nature, NY.

Hurlbert M, Krishnaswamy J, Davin E, Johnson F, **Mena CF**, Morton J, Myeong S, Viner D, Warner K, Wreford A, Zakieldeen S, Zommers Z, (2019). Risk Management and Decision making in Relation to Sustainable Development. In, Shukla PR, Skea J, et. al, (Editors), *Climate Change and Land: an IPCC special report on climate change, desertification, land degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems.* The Intergovernmental Panel on Climate Change (IPCC)

**Mena CF**, Arsel M, Pellegrini L, Orta-Martinez, Fajardo P, Chavez E, Guevara A, Espin P. (2019) Community-based Monitoring of Oil Extraction: Lesson Learned in the Ecuadorian Amazon. *Society and Natural Resources* 33(3): 406-417

Arsel M, Pellegrini L, **Mena CF** (2019). Maria's Paradox: Oil Extraction and the Misery of Missing Development Alternatives in the Ecuadorian Amazon, in Kanbur R, Sandbrook R, and Shaffer P (Editors)*, Immiserizing Growth: When Growth Fails the Poor*. Oxford Academy Press, UK

Pizzitutti F, **Mena CF**, Feingold B, Pan W. (2019). Modeling asymptomatic infections and work-related human circulation as drivers of unstable malaria transmission in low-prevalence areas: a study in the Northern Peruvian Amazon. *Acta Tropica* 197, 104909

Espin PA, Pizzitutti F, **Mena CF** (2019). A Model-Based Approach to Study the Tourism Sustainability in an Island Environment: The Case of Galapagos Islands, in: Kvan T and Karakiewicz J (Editors) *Urban Galapagos*. Springer Nature, NY

Sampedro C, Pizzitutti F, Quiroga D, Walsh SJ, **Mena CF** (2018). Food Supply System Dynamics in in the Galapagos Islands: Agriculture, Livestock, and Imports. *Renewable Agriculture and Food Systems* 1-15

Pizzitutti F, Pan W, Feingold B, Zaitchik B, Alvarez C, **Mena CF** (2018). Out of the net: An agent-based model to study human movements influence on local-scale malaria transmission. *PloS One* (13)3: e0193493

Rivas-Torres G, Benitez FL, Rueda D, Sevilla C, **Mena CF.** (2018). Vegetation Map of the Galápagos: An Object-Oriented classification using LANDSAT-OLI and verification by UAVs

to interpret native and invasive coverage in the Ecuadorian archipelago. *Progress in Physical Geography* 42(1):83-111

Benitez FL, **Mena CF**, Zurita-Arthos L. (2018). Urban Land Cover Change, in Ecologically Fragile Environments: the case of the Galapagos Islands, *Land* 7(21):1-19

Torres ML, **Mena CF.** (2018) Conclusion and Management Implications, in *Understanding Invasive Species in the Galapagos Islands: From the Molecular to the Landscape*, Torres ML and Mena CF (Editors). Springer Science & Business Media. New York.

Sampedro C, **Mena CF.** (2018) Comparison of pixel-based, principal components and object-oriented image classification approaches – a case study in the Agricultural area of San Cristobal Island, Galapagos Islands, Ecuador in *Understanding Invasive Species in the Galapagos Islands: From the Molecular to the Landscape*, Torres ML and Mena CF (Editors). Springer Science & Business Media. New York.

**Mena CF**, Martínez, P, Sampedro C, Laso F. (2017). Land Change Scenarios From the Expansion of the Extractive Frontier in the Ecuadorian Amazon: Carbon Emissions and Deforestation Using Road Network And Land Use Change Simulations. *Journal of Land Use Science* 12(6):477-492.

Sellers S, Bilsborrow RE, Salinas V, **Mena CF**. (2017) Population and development in the Amazon: A longitudinal study of migrant settlers in Ecuador. *Acta Amazonica* 47(4):321-330.

Walsh SJ, Page PH, Brewington, Bradley JR**, Mena CF.** (2017). A Beach Vulnerability Framework for the Galapagos Islands: Fusion of World-View 2 Imagery, 3-D Laser Scanner Data & Unmanned Aerial Vehicles in *Comprehensive Remote Sensing: Societal Benefits*, Walsh SJ (Editor). Elsevier. Oxford, UK.

**Mena CF**, Sampedro C, Martinez PE, Encarnación A, Zambrano D. (2017). Remote Sensing of Oil Spills: Linking Community Monitoring and Satellite Image Processing in the Ecuadorian Amazon in *Comprehensive Remote Sensing: Societal Benefits*, Walsh SJ (Editor). Elsevier. Oxford, UK.

Pizzitutti F, Walsh SJ, Rindfuss RR, Reck G, Tippett R, Quiroga D, **Mena CF**. (2017). Scenario Planning for Tourism Management: A System Dynamics Simulation Approach Applied to the Galapagos Islands of Ecuador. *Journal of Sustainable Tourism* 25(8): 1117-1137

Walsh SJ and **Mena CF.** (2016). Coupled Human-Natural Systems: Interactions of Social, Terrestrial & Marine Sub-Systems in the Galapagos Islands. *Proceedings of the National Academy of Sciences PNAS*. October 10, 2016, doi: 10.1073/pnas.1604990113.

Pizzitutti, F, Pan W, Barbieri A, Miranda J, Feingold B, Guedes G, Alarcon-Valenzuela J, **Mena CF**. (2015). A validated agent-based model to study the spatial and temporal heterogeneities of malaria incidence in the rainforest environment. *Malaria Journal* 15:514

Cabrera P, **Mena CF**. (2014). Using Remote Sensing and a Cellular Automata-Markov Chains-GEOMOD model for the Quantification of the Future Spread of an Invasive Plant: A Case

Study of Psidium guajava in Isabela Island, Galapagos. *International Journal of Geoinformatics* 10(3) 23-30.

Walsh SJ, Carter RW, Lieske S, Quiroga, F, **Mena CF**. (2014) Examining Threats to Iconic National Parks through Modeling Global Change, Biocomplexity, and Human Dynamics. The George Wright Forum, 31(3): 311–323

Lerner A, Rudel T., Schneider L, Mcdroddy M, Burbano D, **Mena CF**. (2015). The Spontaneous Emergence of Silvopastoral Landscapes in the Ecuadorian Amazon: Patterns and Processes. *Journal or Regional Environmental Change* 15 (1421).

Samonte-Tan G., Suman D, Mate J, Quiroga D, **Mena CF,** Catzim-Sanchez A, Fong P, Wang X. (2014). Governance is critical to managing coastal and marine resources: effects of marine management areas. In Nunes P.A.L.D, Kumar P, and Dedeurwaerdere T (Editors) *Handbook on the Economics and Ecosystem Services and Biodiversity*. Edward Elgar Publishing. Oxon, UK.

Burbano D, **Mena CF**, Guarderas P, Vinueza L, Reck G (2014). Shifting Baselines in the Galapagos White Fin Fishery, Using Fisher's Anecdotes to Reassess Fisheries Management: The Case of the Galapagos Grouper in Denkinger J and Vinueza L (Eds) *The Galapagos Marine Reserve: A Dynamic Social–Ecological System*. Springer, New York, NY.

Pizzitutti F, **Mena CF**, Walsh SJ (2014). Agent-Based Model of touristic offers reservation in the Galapagos Islands. *Journal of Artificial Societies and Social Simulation* 17(1)14.

Arsel M, **Mena CF**, Pellegrini L, and Radhuber I (2014). Evolving Property Structures of Minerals: Reflections on how to Theorize 'Nationalization' in Bolivia and Ecuador' in Bavinck, M., Pellegrini, L. and Mostert, E. (eds.) *Conflict and Cooperation over Natural Resources – Conceptual Approaches*. CRC Press. Boca Raton, FL

Brewington L, Frizzelle B, Walsh SJ, **CF Mena**, and Sampedro (2014). Remote Sensing of the Marine Environment: Challenges and Opportunities in the Galapagos Islands of Ecuador in Denkinger J and Vinueza L (Eds) *The Galapagos Marine Reserve: A Dynamic Social–Ecological System*. Springer, New York.

Engie K, Walsh S.J, Brewington L, **Mena CF** (2013). Collaborative Learning & Global Education: Human-Environment Interactions in the Galápagos Islands, Ecuador. *Journal of Geography* 112(5): 179-192

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Carrion A, **Mena CF,** Walsh SJ. 5th Research Symposium for Research and Conservation. San Cristobal, Galápagos. Galapagos Science Center and Galapagos National Park. June, 2019.

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## PRESENTATIONS (SELECTED)

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- National Secretariat of Science, Education and Technology (SENESCYT)
- Population and Environment (Editor Board)
- GeoCarto International
- Journal of Environmental Management
- Journal of Earth Systems Science
- Development and Change
- Applied Geography
- Progress in Physical Geography

**PROFESSIONAL ASSOCIATIONS**

Ecuadorian Academy of Sciences
American Association of Geographers (AAG)
Asociación Ecuatoriana de Geógrafos
International Union for the Scientific Study of Population (IUSSP)