

2018-2019 Report on International Activity

University of Florida International Center
Office for Global Research Engagement

Supporting Faculty to Build Knowledge Globally



FLORIDA MUSEUM OF NATURAL HISTORY

2018/2019: FLORIDA MUSEUM OF NATURAL HISTORY

UF Report on International Activity

INTRODUCTION

The University of Florida International Center is honored to serve and support the university community's global engagements. Our programs bridge the international community to the gator community whether it is here on UF's campus or at destinations around the globe. This report documents international activity for the Florida Museum of Natural History (FMNH). The data summarize a considerable volume of international activity, and continues to be testimony to the University of Florida's and the Museum's commitment and contribution to international research, education, and international exchange. The data represent a snapshot of international activity to showcase and highlight the extent and reach of UF's and the Museum's international activity in one inclusive review. These activities contribute to a fundamental university goal of meeting the increasingly complex challenges of a globalized world.

in numero

Florida Museum of Natural History

- 14 total agreements in 12 countries.
- 15 awards for an estimated \$15 million in sponsored activity.
- 22 International Visiting Scholars.
- Faculty, students, and staff made 144 trips to 35 countries.

INTERNATIONAL AGREEMENTS

The University of Florida connects to the world's preeminent international universities and institutions through non-formal partnership agreements. These agreements facilitate research among faculty; enable faculty and student exchanges; protect intellectual property; and serve as a basis for ensuring ethical best practice. The relationships that may flourish as an outcome from working with partners facilitated by these agreements is important to UF's internationalization efforts.

The University of Florida manages 517 agreements that support research, enable exchanges and visits between the institutions for faculty and students, or provide access to resources that might not otherwise be available. These agreements are informal; yet, their purpose is of value to the faculty that enter into these informal partnerships. The Florida Museum of Natural History has ties to 14 institutions in twelve countries and with one multinational organization. There are two agreements with universities in Brazil and one with institutions in each of the following countries -- Angola, the Bahamas, Belize, Bolivia, India, Kenya, Peru, Senegal, Tanzania, the United Kingdom, and Venezuela (Figure 1).

Figure 1: FMNH International Agreements



Table 1: Florida Museum of Natural History Global Agreements

Institution	Country	Manager	Type	Termination
National Institute of Biodiversity and Conservation Areas (INBAC)	Angola	-	Other	1/31/2021
Antiquities Monuments & Museums Corp. of Bahamas	Bahamas	-	Other	-
Belize Department of Archeology	Belize	-	Other	10/30/2029
Museo de Historia Natural "Alcide d' Orbigny"	Bolivia	Keith Willmott	Cooperative	5/20/2019
Universidade Federal do Parana	Brazil	Dave Blackburn	Cooperative	2/12/2022
University of São Paulo, Museum of Zoology	Brazil	-	Other	-
Tata Institute of Fundamental Research	India	-	Other	10/30/2023
Earth BioGenome Project	Multinational	-	Other	8/31/2023
Kenya Wildlife Service	Kenya	-	Other	-
National University of the Peruvian Amazon (UNAP)	Peru	-	Other	-
Cheikh Anta Diop University	Senegal	-	Other	-
University of Dar es Salaam	Tanzania	-	Other	-
Oxford University Museum	UK	-	Other	-
Museo de Ciencias Naturales de Guanare	Venezuela	-	Other	-

INTERNATIONAL SPONSORED PROJECTS

Sponsored projects at the University of Florida continue to grow as a reflection of our national and international reputation. For this report, we include sponsored activity that have an international connection. These might include projects funded by international and domestic funders for research, teaching and engagement abroad. FMNH has reported \$15 million in sponsored projects. These sponsored projects includes all active and expired projects during 2018/19. The amount reported is the full project dollar award and includes awards that span multiple years.

Table 2: FMNH Internaitonal Sponsored Awards

Principal Investigator	Title	Type of Sponsor	Total Funded	Purpose	Country Region
Blackburn, David	Collaborative Research: RUI: Survey & Analysis of the Angolan...	US Federal Agency	317,664	Country Specific Research	Angola
Emery, Katherine	An Inquiry into Turkey Behavioral & Morphological Change	US Federal Agency	158,783	Country Specific Research	Mexico
Emery, Katherine	Doctoral Dissertation Improvement Award: Social & Ecol Effects of Cattle...	US Federal Agency	29,516	Country Specific Research	Guatemala, Mexico
Kawahara, Akito	NSF DEB-NERC: Phylogenomics & Sensory Systems Evolution in...	US Federal Agency	820,932	Other	Ecuador, UK
Kawahara, Akito	The battle of the sexes in endangered Brazilian Campos: butterfly conservation & unusual mating...	US Not-for-Profit Organization	6,043	Country Specific Research	Brazil
Keegan, William	Pre-Columbian Contacts Between Florida & the Bahamas	US Not-for-Profit Organization	29,487	Country Specific Research	Bahamas
Kowalewski, Michal	Stratigraphic Paleobiology & Historical Ecology of Po Basin	US Federal Agency	363,329	Country Specific Research	Italy
Miller, Jacqueline	Silent roar for help from the Jaguar moths in the New World: Life history, ecology, & conservation biology	US Not-for-Profit Organization	9,500	Country Specific Research	Brazil, Mexico, Panama
Naylor, Gavin	Using Genomic Technology to Inform Marine Policy: The Case for Thorny Skates	US Not-for-Profit Organization	353,850	Collaborative Research	France, Italy
Nelson, Roy	Digitization: IDigBio: Integrated Digitized Biocollections Phase 2	US Federal Agency	10,942,749	Collaborative Research	Australia, Denmark, & Netherlands
Page, Larry	Dissertation Research: Phylogenomic & Specimen-based Bioinformatics Approach to Reconstruct...	US Federal Agency	19,490	Country Specific Research	Cambodia, Laos, Thailand &, Vietnam
Page, Larry	RoL: FELs: Raise: A Phylogenomically - Based Bioinspired Robotic Model...	US University	24,964	Country Specific Research	6 Asian Countries

Table 2: FMNH Internaitonal Sponsored Awards

Principal Investigator	Title	Type of Sponsor	Total Funded	Purpose	Country Region
Reed, David	Parasitic lice as markers of modern & archaic human introgression	US Federal Agency	677,999	Other	Africa, Czech Republic, Malaysia
Soltis, Pamela	Dimensions US-China: How historical constraints, local adaptation...	US Federal Agency	1,203,836	Country Specific Research	China
Waters, Gifford	The 1702 Siege of St. Augustine in Queen Anne's War	US Federal Agency	20,000	Country Specific Research	UK
TOTAL			\$14,978,142		

Table 3: Purpose of FMNH International Sponsored Projects

Category	Number of Projects	Amount Funded	Percent of Total
Country Specific Research	11	2,182,612	14.6
Research Collaborative Activity	2	11,296,599	75.4
Other and Not Specified	2	1,498,931	10
TOTAL	15	14,978,142	100%

When principal investigators report on their project, they are not required to identify the key purpose of focus of the international activity. For us to better understand the type of activity international sponsored projects are supporting, we identified broad categories of purpose. For many awards, the way we

grouped “purpose”, most likely had an overlap categories. However, there is benefit of designating the nature of sponsored funding. For FMNH, the majority of projects (11) fund country specific research (the subject matter includes a focus on a country or culture outside of the U.S.). The largest dollar value (\$11.3 million) fund two projects that support research collaboration. There are two projects for \$1.5 million for which we are not able to categorize a purpose (Table 3).

Location of Sponsored Activity

The Florida Museum of Natural History projects have connections to 21 countries and North Africa region. Two sponsored projects each are associated with Brazil, China, Malaysia, Thailand, and Vietnam. The remainder with one sponsored project (some projects span multiple countries): Angola, Australia, the Bahamas, Cambodia, Czech Republic, Denmark, Ecuador, France, Guatemala, Indonesia, Italy, Laos, Mexico, the Netherlands, Panama, and the United Kingdom (Figure 2). All awards are funded by domestic sources.

Figure 2: Location of FMNH Sponsored Activity



Foreign Sub Awards

For many active international awards, the project team collaborates with an international partner, which often requires providing that partner with subcontract funding. During the 2018/2019 academic year, UF investigators engaged in 72 different sub awards valued at \$15.5 million with foreign institutions. These 72 sub awards are connected to 41 sponsored projects supporting collaborations in 32 countries. The Florida Museum of Natural History has partnered with an institution in Brazil:

- **Title:** Arts: Phylogeny & systematic revision of the diverse and Cryptic Euptychiian (Lepidoptera, Nymphaliadae, Satyrinae); **Principal Investigator:** Keith Willmott; **Sponsor:** National Science Foundation; **Amount of Sub Award:** \$23,875; **Subrecipient:** Fundação de Desenvolvimento da Pesquisa, Brazil

INTERNATIONAL VISITING SCHOLARS

International Visiting Scholars are vital in supporting the global mission of the University of Florida. International Visitors promote cultural exchange, enrich international research, and connect UF to leading universities around the world. For the 2018/19 Academic Year, UF hosted 1,538 International Scholars. FMNH hosts 22 International Visiting Scholars from nine countries. The majority (16 scholars) are “Research Scholars” whose primary focus is research and more than 50% of their time devoted to research. The maximum duration of their stay is five years. Additionally, the Museum hosted six “Short-Term Scholars” who are here on a short-term basis, no more than six months.

Purpose of Travel		
Purpose	Number of Trips	Percent of All Trips
Research	86	59.7
Conference	46	32.0
Networking, Meetings, Seminars, Workshops, Panel Participation	6	4.2
Invited Speaker, Teaching, Training	3	2.1
Class Trips, Case Studies, Study Tours, Internships	3	2.1
TOTAL	144	100%

Almost half (10) of FMNH visiting scholars are from China, and 9% (2) each from Brazil, India, Gabon and Germany. As a percentage of all visiting scholars from a single country, the Florida Museum hosts relatively small numbers. For example, although the largest segment of Florida Museum visiting scholars are from China, this represents less than 2% of all visiting scholars at UF.

Table 4: Citizenship of FMNH International Visiting Scholar

Country	Number	Percent of All at Florida Museum	Percent of All from Country
China	10	45.5	1.7
Brazil	2	9.1	0.9
India	2	9.1	2.2
Gabon	2	9.1	100
Germany	2	9.1	4.5
France, Greece, Poland, the UK	4	18.2	
TOTAL	22	100%	

FMNH TRAVEL

University of Florida faculty, staff, and researchers travel internationally as part of their official UF duties. For example, they may travel to attend conferences, collect field data, engage in outreach activities, collaborate with partners, participate in meetings, recruit students, etc. Prior to travelling abroad on university business, all are required to register with the UF

International Center Travel Registry. As such, the registry database provides a glimpse into the extent and purpose of travel. During the 2018/19 academic year, 144 FMNH faculty and staff travelled to 35 countries. Most trips were to the Bahamas (16%); to China (10%); to New Zealand (8%); Mexico (6%); and to Canada (6%). The remaining trips were relatively evenly distributed among the 30 countries with no destination having more than 5% of all trips.

When reporting on purpose of travel, more than half is tied to research (59.7%) and about one-third is for participation at conferences (32%) (Table 5).

Table 5: Purpose of Travel

Purpose	Number of Trips	Percent of All Trips
Research	86	59.7
Conference	46	32.0
Networking, Meetings, Seminars, Workshops, Panel Participation	6	4.2
Invited Speaker, Teaching, Training	3	2.1
Class Trips, Case Studies, Study Tours, Internships	3	2.1
TOTAL	144	100%