

## Research Projects in the Michelin Ecological Reserve

May 3, 2022

### Completed Projects

#### ***Mammals***

- Dr. Kevin M. Flesher, 2006. Rutgers University, Program in Ecology and Evolution.  
**The biogeography of the medium and large mammals in a human-dominated landscape in the Atlantic Forest of Bahia, Brazil: evidence for the role of agroforestry systems as wildlife habitat.**  
Doctoral thesis.
- Jenifer Guinot. 2003.  
**Elements d'ecologie d'un groupe de singes au Bresil: Elaboration de methodes de recherches sur le ouistiti *Callithrix penicillata* pour la Plantation Michelin de Bahia.**  
Memoire de fin d'etudes Michelin, Clermont-Ferrand.
- Juliana Laufer, UESC, 2009.  
**Variation in the relative abundance of the medium and large mammals of the Michelin Ecological Reserve, Igrapiúna, Bahia: a comparison of before and after the introduction of a guard patrol system.**  
Master's thesis.
- Leila Ramos Neves, UEFS, 2010.  
**Small nonvolant mammals in Atlantic Forest fragments in southern Bahia: Inventory, morphological descriptions, and identification key of the species**  
Master's thesis.
- Aluane Silva Ferreira, UESC, 2014.  
**Ecology of the black tuft-eared marmoset (*Callithrix sp.*) in a rubber plantation in the Baixo Sul of Bahia.**  
Master's thesis.
- Andréa Dechner, Michigan State University, 2014.  
**The ecology of an Atlantic Forest carnivore community in a rubber/forest landscape in southern Bahia, Brazil.**  
Doctoral research.

#### ***Birds***

- Lima, Pedro. 2005.  
**Final Bird List for the Reserva Ecológica Michelin, Ituberá, Bahia**  
Unpublished technical report, presented to PMB, 14 pp.
- Claydson Pinto de Assis Bezerra, UFRJ, 2014.  
**Systematic revision of the Galbulidae (Aves: Galbuliformes)**  
Doctorate thesis.
- João Vitor Lino Mota, UFBA, 2015.  
**Birds as a tool for evaluating connectivity in a forest/agroforestry landscape.**

Master's project.

- Nathália Diniz, UFBA, 2015.  
**Food resource availability and territoriality of Atlantic Forest hummingbirds: a field experiment.**  
Master's project.
- Mario Henrique Barros Silveira, UFBA, 2018.  
**Biogeographical history of Atlantic Forest enclaves using birds as a phylogenetic model.**  
Doctoral Project.
- Nathália Diniz Bastos e Silveira, UFBA  
**Humming bird foraging strategies: Behavioral flexibility and community spatial structure in heterogeneous habitats.**  
Doctoral thesis.

### ***Reptiles and Amphibians***

- Tasso Meneses Lima, UEFS/UFBA, 2008.  
**A study of the terrestrial leaf litter reptiles and amphibians in the Reserva Ecológica Michelin – BA.**  
Master's thesis.
- Marco Antonio de Freitas, USEC, 2008.  
**Geographic distribution, ecology and conservation Status of the jaracuçu-tapete, *Bothrops pirajai* Amaral, 1923.**  
Master's thesis.
- Juliana Rodrigues dos Santos Silva, UESC, 2009.  
**Reproductive behavior of *Ischnocnema ramagii* (Boulenger, 1888) (Anura: Brachycephalidae) in southern Bahia, Brazil.**  
Master's thesis.
- Tatiana Raquel Alves Vilaça and Dr. Mirco Sole, UESC, 2009.  
**Reproductive Ecology of Two Species of *Phyllomedusa* (Anura, Hylidae) in southern Bahia.**  
Master's thesis.
- Dr. Flora Acunã Juncá and Felipe Camurugi Almeida Guimarães, 2008.  
**Composition of the Anuran-fauna in Atlantic Forest Fragments of the Reserva Ecológica Michelin, Ituberá, Bahia.**  
Research.
- Edinei da Almeida, UEFS, 2010.  
**Toxocenoses of tadpoles (Lissamphibia – Anura) in streams and ponds in forest and rubber groves along the Southern Bahian Coast.**  
Master's thesis.
- Airan Dos Santos Protázio, UEFS, 2011.

**Plasticity in tadpoles of *Allobates olfersioides* (Lutz, 1925) and *Bokermannohyla capra* Napoli & Pimenta, 2009 (Amphibia, Anura)**

Master's thesis.

- Flávio José Mendes Santos, UEFS, 2011.  
**Phenotypic plasticity of tadpoles of *Aplastodiscus caviicola* (Cruz & Peixoto, 1985) (Anura: Hylidae) and diet of tadpoles of two *Aplastodiscus* Lutz 1950 species in a forest fragment and rubber grove in the Reserva Ecológica Michelin, Igrapiúna, Bahia, Brazil.**  
Master's thesis.
- Caio Vinicius de Mira Mendes, UESC, 2012.  
**The structure of amphibian communities in the vegetation mosaic of the Reserva Ecológica Michelin, Baixo Sul of Bahia, Brazil.**  
Master's thesis.
- Danilo Silva Ruas, UESC, 2012.  
**The effects of biotic and abiotic factors on tadpole communities in the Atlantic forest, Baixo Sul of Bahia, Brazil.**  
Master's thesis.
- Raoni Rebouças, UESC, 2012.  
**Analysis of the diets of amphibians in the Baixo Sul of Bahia.**  
Master's thesis.
- Felipe Camurugi Almeida Guimarães, UEFS, 2012.  
**Reproductive, territorial, and vocalization behavior of *Hypsiboas atlanticus* (Caramaschi & Velosa, 1996) (Anura: Hylidae) in the Baixo Sul of Bahia, Brazil.**  
Master's thesis.
- Renan Manoel de Oliveira, UESC, 2013.  
**Diet of two *Phyllomedusa* Wagler, 1830 species living sympatrically in an area of southern Bahia: insights into prey selection and the division of trophic resources.**  
Master's thesis.
- Danielle Lima Alves, UEFS, 2014.  
**Ecology and behavior of *Allobates olfersioides* (Lutz, 1925) (Anura: Aromobatidae).**  
Master's thesis.
- Caio Vinicius de Mira Mendes, UESC, 2016.  
**Evaluation of the influence of local factors and the landscape on the composition of amphibian assemblages in the Atlantic Forest of southern Bahia.**  
Doctoral project.
- Danilo Silva Ruas, UESC, 2016.  
**The effect of climate change on amphibian community structure.**  
Doctoral project.
- Indira Maria Castro, UESC, 2016.

**Diet of two species of leaf litter anurans in the Reserva Ecológica Michelin.**  
Masters.

- Maiara Carvalho Alves, UESC, 2016.  
**Thermal tolerance in neotropical anuran species of the genus *Dendropsophus* Fitzinger, 1843 and the potential effect of temperature on predation.**  
Masters.
- Diego Alejandro Flores Padrón, UESC, 2018.  
**Ecology of *Lachesis muta* using telemetry.**  
Master's Project.
- Anat Balesan, U of Michigan, 2018.  
**Relationship of land use with disease in amphibians.**  
Doctoral Project.
- Josemar da Silva Mendes, UEFS.  
**"Like father, like son": unpalatability of tadpoles of *Phyllomedusa bahiana* (Phyllomedusidae: Anura) as an anti-predator defense.**  
Master's project.
- César Alexandre, Instituto Butantan, 2019.  
**Poison glands and biology of helmet frogs.**  
Doctoral project.

**Fish**

- Prof. Dr. Alexandre Clistenes de Alcântara Santos and Leonardo Evangelista Moraes, UEFS, 2008.  
**Characterization of the Fish Taxocenoses of the Reserva Ecológica Michelin (BA).**  
Research.

**Invertebrates**

- Edivan Dias de Assunção, UEFS, 2008.  
**Richness, diversity, and abundance of termites (Insecta: Isoptera) in the Reserva Ecológica Michelin, Costa do Dendê, Bahia, Brazil.**  
Master's thesis.
- Elaine Cambuí Barbosa, UFBA, 2009.  
**Community organization of frugivorous butterflies in a landscape dominated by rubber (Euphorbaceae: *Hevea brasiliensis* Muell. Arg.) plantations.**  
Master's thesis.
- Janete Jane Resende, UEFS, 2009.  
**Ant (Hymenoptera, Formicidae) communities in different forest habitats in the Atlantic Forest region of southern Bahia.**  
Master's thesis.
- Zafira Evelma Gurgel, UFBA, 2009.  
**Evaluation of transfer heterologous microsatellite primers to study the spatial structure of mosaic populations of *Tetragonisca angustula* (Apoidea, Hymenoptera).**

Master's thesis.

- Mirian Silva Santos, UESC, 2009.  
**Community composition and population fluctuations of fruit flies (Diptera: Tephritidae) in three Atlantic Forest fragments and an orchard in the Sul and Extremo Sul Regions of Bahia.**  
Master's thesis.
- Clarissa Machado Pinto Leite, UFBA, 2010.  
**Web-spinning spiders as ecological indicators in tropical forests: an analysis from the Atlantic Forest.**  
Master's thesis.
- Elkiaer Moraes Campos, UEFS, 2009.  
**Characterization of a detritivore beetle community in an Atlantic Forest reserve (Ituberá, BA).**  
Scientific Initiation.
- Dr. Priscila Paixão Lopes, Elkiaer Moraes Campos, and Anderson Matos Medina, UEFS, 2009.  
**Diversity and functional structure of detritus beetles in forests with differing structures in the Costa do Dendê (Ituberá, Bahia).**  
Research.
- Marcelo César Lima Peres, UFBA, 2012.  
**The effect of natural tree fall gaps on ants (Formicidae) and spiders (Areneae) in an Atlantic Forest.**  
Doctoral thesis.
- Alessandra Andrade, U Católica, 2010.  
**The influence of natural tree fall gaps on the distribution of daddy long-legs (Arachnidae) in an Atlantic Forest remnant in northeastern Brazil.**  
Scientific initiation.
- Sheila Luzia de Santana Varjão, UFBA, 2013.  
**Comparative study of the influence of leaf litter structure on the composition of spiders (Arachnida: Araneae) and ants (Hymenoptera: Formicidae) in an Atlantic Forest remnant and rubber grove in Bahia, Brazil.**  
Master's thesis.
- Janete Jane Resende, UEFS, 2013.  
**Sub-soil ant community structure in Atlantic Forest fragments of the Reserva Ecológica Michelin.**  
Doctoral thesis.
- Dr. Sergio R. Andena, UEFS, 2013.  
**Census of social wasps (Vespidae, Polistinae) in the Reserva Ecológica Michelin.**  
Research.

- Katia Regina Benati, UFBA, 2013.  
**The effect of leaf litter structural complexity on temporal variation in the distribution of spiders and ants in an Atlantic Forest fragment.**  
Doctoral thesis.
- Dr. Adolfo Calor & Dr. Carlos Copatti, UFBA, 2013.  
**Using the composition of the benthic macro-invertebrate fauna to evaluate water quality.**  
Research.
- Thalles Plantiny Lavinsky Pereira, UEFS, 2014.  
**Insects associated with fire ants *Solenopsis* group *Geminata* (Hymenoptera, Formicidae, Myrmicinae).**  
Master's thesis.
- Dr. Marcos Gonçalves Lhano, UFRB, 2015.  
**Biodiversity of Orthoptera in the Reserva Ecológica Michelin, Igrapiúna, Bahia.**  
Research.
- Victor Montalvão Moreno, UFBA, 2015.  
**Distribution and habitat use of social spiders.**  
Masters.
- Lucas Medeiros, UFBA, 2015.  
**Behavior of social spiders.**  
Masters.
- Alessandra Rodrigues Santos de Andrade, UFBA, 2018.  
**Biogeography of Opilions in the Atlantic Forest - Patterns of Diversity.**  
Doctoral Project.
- Lúcia Carvalho Neco, USP.  
**Metrics of sociability in spiders of the genus *Anelosimus*.**  
Master's project.
- Denilson Martins, UFMA.  
**Climatic and Phylogeographic modeling of Euglossini bees (Hymenoptera: Apidae) of open areas in South America.**  
Doctoral project.
- Leonardo Palloni Accetti Resende, UFBA, 2018.  
**Modeling the behavior of social spiders: Influence of personality and morphology on web structure and information transmission systems.**  
Doctoral Project.
- Dr. Elizabeth Gerardo Neves, UFBA.  
**Study of the Malacofauna in conservation areas in Bahia: Reserva Ecológica Michelin.**  
Research project.

## ***Plants***

- Maria Lenise Silva Guedes and Rômeo de Medeiros Valadão, UFBA, 2007.  
**Floristic inventory of the Fazenda Michelin, Ituberá/Igrapiúna, Bahia.**  
Research and Initiating Scientist Project.
- Dr. Cid Passos Bastos and Silvana Brito Vilas Boas Santos, UFBA, 2008.  
**Floristic and ecological studies of bryophytes in the Plantações Michelin da Bahia, Baixo Sul, Bahia, Brazil.**  
Research and doctorate thesis.
- Dr. Reyjane Patrícia de Oliveira, UEFS, 2010.  
**Census of the grass (Poaceae) species of the Reserva Ecológica Michelin, Igrapiúna, Bahia.**  
Research.
- Dr. Silvana Helena N. Monteiro, UEFS, 2008.  
**Census of the Orchidaceae family in the Reserva Ecológica Michelin, Igrapiúna, Bahia.**  
Research.
- .
- Fernanda Vilela and Dr. Kevin Flesher, CEB, REM, 2010.  
**The recruitment ecology of biriba (*Eschweilera ovata*, Cambess. [Miers], Lecythidaceae) at three spatial scales in the Atlantic Forest of southern Bahia.**  
Post-master's Project.
- Larissa Rocha Santos, UESC, 2011.  
**Phenology and structure of trees in differing successional stages in the Atlantic Forest of the Reserva Ecológica Michelin, Bahia, Brazil.**  
Master's thesis.
- Dr. Cláudia Elena Carneiro, UEFS, 2008.  
**Census of the Sapotaceae species of the Reserva Ecológica Michelin, Igrapiúna, Bahia.**  
Research.
- Hermes Cassiano de Oliveira, UEFS, 2013.  
**Diversity and ecology of epiphytic bryophytes in the Atlantic Forest of Bahia, Brazil.**  
Doctoral thesis.
- Carla V. Chízmar F., Yale, 2012.  
**Ecophysiological and anatomical traits of native tree species used in the restoration of the Atlantic Rainforest, Brazil.**  
Master's thesis.
- Elton M.C. Leme, Herbarium Bradeanum, and Ludovic J.C. Kollmann, Museu de Biologia Prof. Mello Leitão, 2011.  
**Bromeliad diversity and conservation in the Reserva Ecológica Michelin.**  
Research.
- Larissa Rocha Santos, Daniela Custódio Talora, and Ana Cristina Schilling, UEFS, 2013.  
**A comparison of sampling methods for phenological studies.**  
Post-masters project.

- Caio Vinicius Vivas Damasceno Melo, UESC, 2012.  
**DNA Barcode in arboreal Sapotaceae species of the Atlantic Forest.**  
Master's thesis.
- Flávia de Andrade Brito, UESC, 2014.  
**Phenology of sub-canopy trees in an Atlantic Forest fragment in the Reserva Ecológica Michelin, Igrapiúna, Bahia.**  
Master's thesis.
- Antonio Campos Rocha Neto, UNICAMP, 2015.  
**Taxonomic and morphological studies of the genus *Griffinia* Ker Gawl. (Amaryllidaceae).**  
Master's thesis.
- Dr. Daniel Piotto, Universidade Federal do Sul da Bahia, 2017.  
**An evaluation of various planting methods for the enrichment of a rubber plantation landscape with native trees in the Atlantic Forest of southern Bahia, Brazil.**  
Research.
- Dr. Fernanda Amato Gaiotto, UESC.  
**Restoring the past, reconstructing the future: how genetic parameters can help forest restoration?**  
Research.

#### ***Plant-animal Interactions***

- Fernanda de Souza Vilela, UFBA, 2008.  
**Influence of predation and dispersal of seeds on the recruitment of biriba (*Eschweilera ovata* [Cambess.] Miers. (Lecythidaceae) seedlings in Atlantic Forest, Reserva Ecológica Michelin, BA.**  
Master's thesis.
- Dr. Mauro Ramalho, Ciro Tavares Florence, Daniela Monteiro, Fernanda de Souza Vilela, Jaqueline Figuerêdo Rosa, João Paulo Loyola de Oliveira, Mariana Laly Silva Batista, Marília Dantas e Silva, Paulo César Leão Gouvêa, Maise Silva Santana Dos Santos, UFBA, Instituto de Biologia, Departamento de Botânica, 2007.  
**Spatial dynamics of pollinators and the associated flora: habitat heterogeneity and functional connectivity in the Central Corridor of the Atlantic Forest - BA.**  
Research.
- Daniela Monteiro, UFBA, 2008.  
**Generalist bees (Meliponina) and the reproductive success of the mass flowering tree *Stryphnodendron pulcherrimum* (Willd.) Hochr., (Fabales-Mimosaceae) in the Atlantic Forest, Bahia.**  
Master's thesis.
- Jaqueline Figuerêdo Rosa, UFBA, 2009.  
**Spatial dynamics of the diversity of Centridini bees: floral oil availability as a measure of habitat quality.**  
Master's thesis.

- Anderson Matos Medina, UEFS, 2008.  
**Detritivore beetles and their effect on nutrient cycling in an Atlantic Forest reserve (Ituberá, BA).**  
Scientific initiation.
- Marília Dantas Silva, UFBA, 2012.  
**The social bee Meliponini (Hymenoptera: Apidae) community in the Atlantic Forest fragments of the Reserva Ecológica Michelin, Ituberá, Bahia.**  
Doctoral thesis.
- Paulo Prates Júnior, UFBA, 2008.  
**The stratification of foraging behavior of orchid bees (Euglossini, Apoidea) in the Atlantic Forest.**  
Scientific initiation.
- Ludmila Oliveira Isaías da Silva, UFBA, 2009.  
**Experimental analysis of functional connectivity in the Atlantic Forest: response of Euglossine bees to a rubber matrix.**  
Scientific initiation.
- Oscar da Silva Pereira Netto, UFBA, 2009.  
**The spatial distribution and diversity of bees in different habitats in an Atlantic Forest mosaic – Bahia.**  
Scientific initiation.
- Marcos da Costa Dórea, UEFS, 2012.  
**Pollen morphology, reproductive phenology and floral biology of forest Poaceae species.**  
Doctoral thesis.
- Aline Góes Coelho, UEFS, 2013.  
**The plant community utilized by hummingbirds in the understory of an Atlantic Forest fragment in southeastern Bahia, northeastern Brazil.**  
Doctoral thesis.
- Daniela Monteiro, UFBA, 2014.  
**The dynamics of temporal and spatial partitioning of resources by stingless bees (Hymenoptera - Meliponini) in the Atlantic Forest of Bahia.**  
Doctoral project.
- Jaqueline Figuerêdo Rosa and Dr. Mauro Ramalho, UFBA, 2014.  
**Evaluation of gene flow and genetic structure of Euglossini bees in an Atlantic forest/rubber mosaic.**  
Doctoral thesis.
- Dr. Marília Dantas Silva, UFBA, 2013.  
**Characterization of the arboreal substrates nesting of Meliponina (Apidea, Hymenoptera) in the Reserva Ecológica Michelin, Igrapiúna, Bahia.**

Post-doctoral project.

- Paulo Cesar Leão Gouvêa, UFBA, 2016.  
**Effect of *Tetragonisca angustula* massing on a meta-population of Meliponini (Hymenoptera, Apidae) in a forest-silviculture mosaic.**  
Master's project.
- Brenna Pinheiro Bastos, UEFS/UFBA.  
**The influence of spatial heterogeneity on plant-bee interaction networks in the Atlantic Forest of Southern Bahia.**  
Doctoral project.

### ***Fungi***

- João Ronaldo Tavares de Vasconcellos Neto, UEFS, 2009.  
**Diversity and selection of basidiomicetos Afiloforóides fungi for the production of lignocelulolíticas enzymes in an Atlantic Forest in Southern Bahia.**  
Master's thesis.
- Danilo Batista Pinho, UFV, 2012.  
**Contributions to the understanding of fungi of the order Meliolales and their phylogenetic position.**  
Doctoral thesis.
- André Luiz Firmino, UFV, 2013  
**New taxa and phylogenetic placement of the Asterinales of Brazil.**  
Master's thesis.

### ***Human Ecology***

- Mônica Pereira and Tarcísio Botelho, Ação Ambiental Consultoria, Ltd., 2011.  
**Socio-environmental diagnostic of the communities neighboring the Reserva Ecológica Michelin, Bahia, Brazil: a relationship to be constructed.**  
Contracted study.

## Projects Underway

### *Mammals*

- Dr. Kevin Flesher, CEB, REM.  
**Long-term monitoring of the medium and large mammals of the Reserva Ecológica Michelin.**  
Research.

### *Birds*

- Sidnei Sampaio dos Santos, UFBA.  
**Sound signals in the fire-eye (Genus *Pyriglena*, Aves: *Thamnophilidae*): evolution of songs and calls and the effects of phylogeny on vocal recognition.**  
Doctoral thesis.

### *Amphibians and reptiles*

- Arthur Gomes Bauer, UESC.  
**The effect of land use on the diet and floating asymmetry of *Hypsiboas* sp. (Anura: Hylidae): a relationship between floating asymmetry and fitness.**  
Master's project.
- Leildo Machado Carilo Filho, UESC.  
**Thermal biology and evolution in Atlantic Forest herpetofauna: integrating ecological patterns, physiological metrics, and phylogeny.**  
Master project.
- Fernanda Natascha Pimentel Freitas, UESC.  
**Histological and histochemical description and comparison of skin glands of species of the *Dendropsophus* (Anura: Hylidae) species.**  
Master project.
- Ramon Costa Dominato, UESC.  
**Taxonomic complexity in agricultural lands: how to preserve diversity? Genetic characterization, specific delimitation and evolution of the *Adenomera thomei* Steindachner, 1867 (Anura: Leptodactylidae) clade.**  
Master project.
- Dr. Mirco Solé, UESC.  
**Home range and locomotion patterns of the herpetofauna of the Atlantic Forest of Southern Bahia.**  
Research project.
- Daniela Pareja Mejía, UESC.  
**Following the tracks of treefrogs: a telemetry study of Hylid and Phyllomedusid frogs at the Reserva Ecológica Michelin.**  
Doctoral project.
- Rafaella Silva Roseno, UESC.  
**The effects of climate change on the ecological interactions and the population persistence of the genera *Coleodactylus* and *Leposoma* (Squamata) in the Atlantic Forest of Bahia.**

Doctoral project.

- Paola De la Quintana, UESC.  
**Telemetry and natural history of the false corral snake *Oxyrhopus petolarius* in the Reserva Ecológica Michelin.**  
Master project.

#### *Invertebrates*

- Dr. Marciel Elio Rodrigues, UESC.  
**The role of protected areas for the preservation and persistence of aquatic biodiversity.**  
Research project.

#### *Plants*

- Dr. Kevin Flesher and André Souza dos Santos, CEB, REM.  
**Long-term monitoring of the enrichment planting plots in the Reserva Ecológica Michelin.**  
Research.
- Dra. Lidyanne Aona & Dr. Everton Hilo de Souza, UFRB.  
**Taxonomy, ecology, phenology, physiology and reproductive of Bromeliads and other epiphytes of southern Bahia.**  
Research.
- Dra. Isys Souza.  
**Taxonomic identification of fruits and flowers of the Reserva Ecológica Michelin.**  
Research.

#### *Plant-animal Interactions*