

## CURRICULUM VITAE

### Gabby Guilhon, Ph.D. – Postdoctoral Teaching Fellow

DSc, MSc, BSc in Zoology, Dip.Ed in Bio Sciences and Health

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#### Research

- **Form and Function:** How the musculoskeletal system is adapted for specific functions in different locomotion? How is this evolving and shaping vertebrate evolution?

#### Current position

(2023 – current) Postdoctoral Teaching Fellow at New York Institute of Technology, Department of Anatomy. Supervisors: Dr. Michael Granatosky and Dr. Nikos Solounias.

#### Education

(2023) PhD in Zoology – Universidade Federal de Minas Gerais (UFMG), with a one-year period at Museum of Comparative Zoology – Harvard University

(2020) Graduation in Bioscience and Healthy Education – Instituto Oswaldo Cruz/Rio de Janeiro

(2017) Master's in Zoology – Museu Nacional da Universidade Federal do Rio de Janeiro (MN/UFRJ)

(2015) Bachelor's in Biological Sciences (emphasis in Zoology) – Universidade Federal do Rio de Janeiro

#### Positions held

(2017 – 2018) Research Assistant – Department of Mammalogy – Museu Nacional da Universidade Federal do Rio de Janeiro (MNRJ)

#### Teaching Experience

(2023 – current) Teaching Postdoctoral at New York Institute of Technology (NYIT). Subjects: Human Anatomy to 1<sup>st</sup> year Medicine Students.

(2021) Temporary Assistant Professor at Faculdade Descomplica S. A. Veterinary graduate course. Subjects: (1) Veterinary Hematology, Biochemistry and Endocrinology and (2) Principles of Anatomy, Physiology and Applied Pharmacology.

(2021/1) Invited Professor at Universidade Estadual do Norte Fluminense – subject: Introduction to Zoology classification and nomenclature.

(2019/1) Invited Professor at Universidade Federal de Minas Gerais – subject: Mammalogy

(2014) Volunteering monitor of the course “Zoology IV (Vertebrates)” (compulsory in Biological Sciences), lecturing practices in laboratory and field.

#### Honors and awards

(2023) One-year Post-Doctoral Young Talents in Brazil

(2022) Fundação Lemann – Alcance Grant Award – US\$ 1,000.00

(2021) Carol and James Patton Award, American Society of Mammalogists

(2021) Best Poster Award – Nomenclature for epipubic bones structures in mammals, I Simpósio de Morfologia de Vertebrados/I SIMORF

- (2019) Travel Award Evolution Congress: US\$ 500.00, Evolution Meetings
- (2019) Student Travel Award for the Centennial Celebration and 99th Annual Meeting of ASM: \$500 USD, American Society of Mammalogists
- (2019) 1<sup>st</sup> place at PhD scholarship selection of Zoology graduate program at UFMG
- (2016) Student Travel Awards for 12<sup>o</sup> International Mammalogical Congress: AUD\$ 800.00 (US\$ ~535.00), International Federation of Mammalogists
- (2015) Best Oral Presentation Award – master’s degree category – “Variação morfológica da região inguinal de *Monodelphis domestica* do nordeste do Brasil” [Morphological variation on the inguinal region of *Monodelphis domestica* of northeastern Brazil] - VIII Brazilian Mammalogical Congress
- (2014) Universidade Federal of Rio de Janeiro – BRL\$ 1,800.00 (US\$ ~330.00) to attend the VII Brazilian Mammal Congress (CBMz)
- (2013) 2nd place presentation – “The better utilization of zoological specimens in search and disclosure: a reflection on the snakes preparation” – 1st International Meeting

### Research funding, scholarships and grants (undergraduate and graduate)

- (2023 – 2026) New York Institute of Technology – Internal university grant (PI) “Origin and development of the epipubic bones in marsupials” Funded September 2023 \$9,000.00
- (2021 – 2022) PhD International scholarship provided by “Coordenação de Aperfeiçoamento de Pessoal de Nível Superior, Programa Institucional de Internacionalização (CAPES/PrInt)” – US\$ 24,544.00 over 12 months
- (2019 – 2023) PhD scholarship provided by “Coordenação de Aperfeiçoamento de Pessoal de Nível Superior, (CAPES)” – BRL\$ 92,400.00 (US\$ ~17,035.00) over 42 months
- (2017 – 2018) Mammal molecular collection technician at Museu Nacional/UFRJ, scholarship provided by the “Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq)” – BRL\$ 6,000.00 (US\$ ~1,100.00) over 12 months
- (2015 – 2017) Master of Science scholarship provided by the “Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (CAPES)” (March 2015 to February 2017) – BRL\$ 36,000.00 (US\$ ~6,635.00) over 24 months
- (2013 – 2015) Undergraduate “Scientific Initiation” scholarship, provided by the “Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq)” – BRL\$ 3,600.00 (US\$ 1,136.00) over 18 months

### Publications

- (2023) Moraes-Neto, C.R.; **Guilhon, G.**; Salles, L.O. Taxidermia shmoos em Chiroptera: extração completa do esqueleto, mantendo a integridade da pele. *Brazilian Journal of Mammalogy*, p. e202392111. <https://doi.org/10.32673/bjm.vie92.111>
- (2023) Abreu J.A.F.H.; **Guilhon, G.**; Astúa, D. Dissecção clássica e cálculo da área fisiológica transversal em pequenos mamíferos. *Brazilian Journal of Mammalogy*, v. 1, p; 1-4. <https://doi.org/10.32673/bjm.vie92.118>
- (2022) Costa-Pinto, A.; Bovendorp, R.; Bocchiglieri, A.; Caccavo, A.; Delciellos, AC.; Malhado, AA., Braga, CAC.; Loretto, DC.; Edeltrudes M.; Heberon, F.; **Guilhon, G.**; Paise, G.; Sobral, G.; Varjão, IC.; Ferreira, J.; Viviane, O.; Silva, L.; Geise, L.; Pereira, LC.; Machado, C.; Nicola, PA., *et al.* Small mammals from the Caatinga: a dataset for the Brazilian semiarid biome. *Ecology*, v. 104, p. e3879. <https://doi.org/10.1002/ecy.3879>
- (2022) Astua, D.; **Guilhon, G.** Morphology, Form, and Function in Didelphid Marsupials. In: N. C. Cáceres; C. R. Dickman. (Org.). American and Australasian Marsupials. *Springer Nature Switzerland*, v. 1, p. 1-15. [https://doi.org/10.1007/978-3-030-88800-8\\_8-1](https://doi.org/10.1007/978-3-030-88800-8_8-1)
- (2021) **Guilhon, G.**; Braga, C. A. C.; Milne, N.; Cerqueira, R. Musculoskeletal anatomy and nomenclature of the mammalian epipubic bones. *Journal of Anatomy*, v. 239, p. 1096-1103. <https://doi.org/10.1111/joa.13489>

- (2021) Sobral, G.; **Guilhon, G.**; Gudinho, F.; Siciliano, S.; Fuzessy, L. Dam failure and mammals: a portrait of the scenario prior to Mariana disaster. *Brazilian Journal of Mammalogy*, v. 90, p. 1-19. <https://doi.org/10.32673/bjm.vi90.48>
- (2021) **Guilhon, G.**; Biondo, F. G.; Nogueira, A. C.; Carriço, C. Restauração de coleção zoológica didática e duas propostas de aulas práticas de ciências para o ensino fundamental. *História da ciência e ensino: construindo interfaces*, v. 23, p. 92-105. <https://revistas.pucsp.br/index.php/hcensino/article/view/53567>
- (2020) **Guilhon, G.** Marsupial Morphology. In: Vonk J.; Shackelford T. (Eds.). Encyclopedia of Animal Cognition and Behavior. (Org.). 2ed.: *Springer Nature Switzerland*, p. 1-11. [https://link.springer.com/referenceworkentry/10.1007/978-3-319-47829-6\\_1195-3](https://link.springer.com/referenceworkentry/10.1007/978-3-319-47829-6_1195-3)
- (2019) **Guilhon, G.**; Braga, C. A. C.; Oliveira, J. A. Pelage variation and reproduction in the gray short-tailed opossum *Monodelphis domestica* (Didelphimorphia: Didelphidae). *Journal of Mammalogy*, v. 100, p. 1364-1373. <https://doi.org/10.1093/jmammal/gyz080>
- (2019) Sobral, G; **Guilhon, G.** Suckling/Nursing. In: Vonk J.; Shackelford T. (Org.). 1ed.: *Springer Nature Switzerland*, p. 1-5. [https://link.springer.com/referenceworkentry/10.1007/978-3-319-47829-6\\_511-1](https://link.springer.com/referenceworkentry/10.1007/978-3-319-47829-6_511-1)
- (2017) **Guilhon, G.**; Braga, C. A. C.; Cerqueira, R. 2017. Variação morfológica do osso epipúbico de marsupiais Neotropicais (Didelphimorphia, Didelphidae): Dimorfismo sexual e Locomoção. *Boletim Informativo (Sociedade Brasileira De Zoologia)*, v. 122, p. 12. [https://www.researchgate.net/publication/320508245\\_Variacao\\_morfologica\\_do\\_osso\\_epipubico\\_de\\_marsupiais\\_Neotropicais\\_Didelphimorphia\\_Didelphidae\\_dimorfismo\\_sexual\\_e\\_locomocao](https://www.researchgate.net/publication/320508245_Variacao_morfologica_do_osso_epipubico_de_marsupiais_Neotropicais_Didelphimorphia_Didelphidae_dimorfismo_sexual_e_locomocao)
- (2016) Sobral, G.; **Guilhon, G.** Problemas no uso dos termos altricial e precoce em estudos de mamíferos. *Boletim da Sociedade Brasileira de Mastozoologia*, v. 76, p. 61-67. [https://www.researchgate.net/publication/312500136\\_Problemas\\_no\\_uso\\_dos\\_termos\\_altricial\\_e\\_precoce\\_na\\_Mastozoologia](https://www.researchgate.net/publication/312500136_Problemas_no_uso_dos_termos_altricial_e_precoce_na_Mastozoologia)

### Main Scientific Conference Presentations

- (2023) NorthEast Regional Vertebrate Evolution Symposium (NERVES): Appendicular musculature of the unique monito del monte (*Dromiciops gliroides*)
- (2022) National Fossil Day at Harvard MCZ: What makes a mammal a mammal?
- (2021) Poster title: Nomenclature for epipubic bones structures in mammals, I Simpósio de Morfologia de Vertebrados/I SIMORF (online)
- (2019) Lightning talk title: Morphological variation of epipubic bones in didelphid marsupials: Sexual dimorphism and locomotion. In: 99th Annual Meeting & Centennial Celebration of the American Society of Mammalogists, Washington, D. C.
- (2019) Talk: Evolution of facial color patterns in didelphid marsupials (Marsupialia: Didelphimorphia). In: Evolution 2019, 2019, Providence, RI. Evolution 2019, 2019.
- (2019) Talk: Comparative myology of the hindlimb of the thick-tailed opossum *Lutreolina crassicaudata* Desmarest, 1804 (Marsupialia: Didelphimorphia). In: 12th International Congress of Vertebrate Morphology, 2019, Praga. Journal of Morphology, 2019. v. 280. p. S197-S197.
- (2019) Talk: Essay on the original function and homology of epipubic bones in basal mammals (Cynodontia). In: X Congresso Brasileiro de Mastozoologia, 2019, Águas de Lindóia. Anais do X Congresso Brasileiro de Mastozoologia.
- (2017) Poster title: Morphological variation of epipubic bones in didelphid marsupials: Sexual dimorphism and locomotion. In: 12th International Mammalogical Congress, 2017, Perth, Australia. Abstract Book, 2017. v. 1. p. 192.
- (2014) Poster title: Preparation of carcasses from taxidermy: technical protocol for mammalian packaging in dermestid colony. XXX Brazilian Zoological Congress.
- (2014) Poster title: Historical and contemporary reflections on the use of dermestid colony in the department of vertebrates in National Museum of Rio de Janeiro. XXX Brazilian Zoological Congress.

(2014) Poster title: Techniques for tanning skin in Xenarthra. VII Brazilian Mammalogical Congress.

(2014) Poster title: *Shmoo* Technical protocol for taxidermy in Microchiroptera. VII Brazilian Mammalogical Congress.

- **Service**

### **Academic Orientation**

(2024 – current) Supervisor of Jonathan Shadan – Medical student mentored at NYIT, Independent Research Advisor

(2024 – current) Co-advisor of Eduarda Soares in her Ph.D. dissertation: “Coloração inguinal de marsupiais Neotropicais: morfologia, ecologia e reprodução” [Inguinal coloration of Neotropical marsupials: morphology, ecology and reproduction] in Universidade Estadual do Norte Fluminense (UENF), Brazil

(2024 – current) Co-advisor of Bernardo Santori in his master’s thesis: “Biologia comparada da musculatura de ratos-espinho arborícolas (Echimyidae)” [Comparative biology of arboreal spiny-rats myology (Echimyidae)] in Universidade Federal do Rio de Janeiro (UFRJ), Brazil

(2017 – 2019) Co-advisor of Ana Carolina Gomes in her master’s thesis: “Descrição Anatômica dos ossos da cintura pélvica do *Monodelphis* de três listras.” [Anatomical description of pelvic bones of three-striped opossum *Monodelphis*] in Universidade Federal de Viçosa (UFV), Brazil

(2015 – 2017) Co-advisor of Ana Carolina Gomes in her undergraduate research project: “Descrição Anatômica dos ossos da cintura pélvica de *Monodelphis americana*.” [Anatomical description of pelvic bones of *Monodelphis americana*] in Universidade Federal de Viçosa (UFV), Brazil

### **Participation at undergraduate Defense Committee**

(2020) Ferreira, M. S.; Braga, C. A. C.; Lacerda, A. C. M.; **Guilhon, G.** Defense of Laís Moreira Lopes, monograph’ title: Ecologia populacional do rato-de-espinho *Trinomys dimidiatus* em uma área de mata atlântica no estado do Rio de Janeiro. Universidade Veiga de Almeida, Biological Sciences course

(2019) **Guilhon, G.**; Costa, M. C. N.; Perini, F. A. Defense of Rayane Caroline de Rezende Lima. A coleção de marsupiais (Mammalia, Didelphimorphia) do Centro de Coleções Taxonômicas da UFMG: uma análise taxonômica e geográfica. Universidade Federal de Minas Gerais, Biological Sciences course

(2019) Pacheco, F. S.; **Guilhon, G.** Defense of Ian Moreira Souza. Levantamento de pequenos mamíferos não-voadores da estação ecológica de água limpa, Cataguases (Minas Gerais). Universidade do Estado de Minas Gerais, Biological Sciences course

(2017) Barros, P. A.; Brandão, M. V.; Lessa, G.; **Guilhon, G.** Defense of Ana Carolina Gomes Domingos. Caracterização Anatômica dos Ossos da Cintura Pélvica de *Monodelphis americana* e *Monodelphis scalops* (Didelphimorphia, Didelphidae). Universidade Federal de Viçosa, Biological Sciences course

### **Editorial Board Member**

(2020) Check List, Journal of Species List and Distribution

(2016 – 2019) Oecologia Australis Journal

### **Board of Reviewers**

(2024 – current) The Anatomical Record

### **Journal reviewer**

(2023) Brazilian Journal of Mammalogy (BJM)

(2023) Brazilian Journal of Biology

(2023) Herpetologia Brasileira

(2022) Brazilian Journal of Mammalogy (BJM)

(2018) Mastozoología Neotropical

### **Science Outreach**

(2021 – current) “MastoCafé” – Instagram, Twitter and TikTok. Science outreach about mammal diversity, morphology and conservation

(2024) “Are you stronger than a lemur?” – Elementary School level, New York – through NYIT

(2024) “Are you stronger than a lemur?” – Middle School level, New York – through NYIT

(2024) “Are you stronger than a lemur?” – High School level, New York – through NYIT

(2024) Human Anatomy – High School, New York – through NYIT

(2019) “Museu aberto” (“open museum”) – Annual event of a full day of preserved specimens display outside the museum, to reach out a more diverse public and children in Brazil

(2018) “Museu aberto” (“open museum”) – Annual event of a full day of preserved specimens display outside the museum, to reach out a more diverse public and children in Brazil

(2016) SNCT – Science and Technology National Week for high school and elementary school in Brazil

(2015) SNCT – Science and Technology National Week for high school and elementary school in Brazil

(2014) SNCT – Science and Technology National Week for high school and elementary school in Brazil

(2013) SNCT – Science and Technology National Week for high school and elementary school in Brazil

(2013) “Bio na Rua” (Biology on streets) – Event organized by biology undergraduates to bring research news and information to walkers on streets of Brazil

### **Community service**

(2024) Judge, Long Island Science & Engineering Fair, Woodbury, NY

(2023 – current) Long Island Rabbit Rescue Group

(2022 – 2023) Volunteer House Rabbit Network, MA

### **Administrative Service**

(2012 – 2014) Undergraduate student representative committee;

(2015 – 2017) Master’s student representative committee;

(2019 – 2020) PhD student representative committee.

### **Professional Organizations**

(2014 – current) Member of the Brazilian Society of Mammalogy (SBMz)

(2015 – current) Member of the American Society of Mammalogists (ASM)

(2019 – current) Member of the International Society of Vertebrate Morphology (ISVM)

(2022 – current) Member of the American Association for Anatomy (AAA)