

Curriculum Vitae  
**JOANNA MALUKIEWICZ**

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**UNIVERSITY DEGREE AND HIGHER EDUCATION**

- 2013 **PhD** in Biology, Arizona State University, School of Life Sciences, Tempe, Arizona, USA. Dissertation: *Hybridization and Speciation of Common Marmosets (Callithrix jacchus) and Black-Tufted Marmosets (Callithrix penicillata)*. Thesis Committee: Dr. Anne C. Stone (chair and main advisor), Dr. Philip Hedrick, Dr. Carlos Ruiz-Miranda, Dr. Leanne Nash, Dr. Michael Rosenberg
- 2011 **Fulbright Scholar**, Laboratory of Environmental Sciences, Universidade Estadual do Norte Fluminense, Campos, Rio de Janeiro, Brazil. Supervisor: Dr. Carlos Ruiz-Miranda
- 2006 **MA** in Biological Anthropology, Kent State University, Kent, Ohio, USA. Thesis: *Female Dominance in a Captive Group of Ring-tailed Lemurs*. Supervisor: Dr. Marilyn Norconk
- 2002 **BS** in Biology and Evolutionary Anthropology, Rutgers University, New Brunswick, USA. Henry Rutgers Scholar Thesis: *The Positional Behavior of Mantled Howler Monkeys (Alouatta palliata) of Isla de Ometepe, Nicaragua*. Supervisor: Dr. Susan Cachel

**CURRENT POSITION**

- 2021-present **Associated Guest Researcher**, German Primate Center, Primate Genetics Laboratory, Leibniz Institute for Primate Research, Göttingen, Germany.
- 2019-present **Postdoctoral Researcher**, Institute of Tropical Medicine, University of São Paulo, São Paulo, Brazil. Supervisor: Dr. Ester Sabino.

**PRIOR ACADEMIC POSITIONS**

- 2019-2021 **Postdoctoral Fellow** (Marie Skłodowska-Curie Individual Action funded), German Primate Center, Primate Genetics Laboratory, Leibniz Institute for Primate Research, Göttingen, Germany. Supervisors: Prof. Dr. Lutz Walter and Prof. Dr. Christian Roos
- 2018-2019 **Postdoctoral Fellow** (Independent Position, Brazilian Ministry of Science, Technology, Innovations, and Communications funded) Centro de Manejo da Fauna da Caatinga, Universidade Federal do Vale do Rio São Francisco, Petrolina, Pernambuco, Brazil
- 2016-2018 **Postdoctoral Fellow**, The Biodesign Institute, Arizona State University, Tempe, Arizona, USA
- 2014-2016 **Postdoctoral Fellow** (Brazilian Ministry of Science, Technology, Innovations, and Communications funded) Department of Animal Biology, Universidade Federal de Viçosa, Viçosa, Minas Gerais, Brazil

## **PUBLICATIONS**

**Citation Metrics:** 18 peer-reviewed publications. Total number citations: 371, h-index:11, h10-index:12

Metrics based on Google Scholar (August 2022):

<https://scholar.google.com/citations?user=m-ipC54AAAAJ&hl=en&oi=sra>

### **Contribution:**

A: lead and corresponding author

B: contribution to all aspects of study (CDEFG)

C: design of project

D: collection of samples

E: sample processing

F: analysis and interpretation of data

G: significant contribution to paper writing

### **Peer-reviewed articles in international scientific journals**

- 2022 **J Malukiewicz**<sup>(AB)</sup>, RA Cartwright, JA Dergam, CS Igayara, SE Kessler, SB Moreira, LT Nash, PA Nicola, LCM Pereira, A Pissinatti, CR Ruiz-Miranda, AT Ozga, AA Quirino, C Roos, DL Silva, AC Stone, AD Grativol. The gut microbiome of exudivorous marmosets in the wild and captivity. *Scientific Reports*. 12:5049. <https://doi.org/10.1038/s41598-022-08797-7>
- 2022 G Formenti, K Theissinger, C Fernandes, I Bista, A Bombarely, C Bleidorn, C Ciofi, A Crottini, JA Godoy, JHöglund, **J Malukiewicz**<sup>(G)</sup>, A Mouton, RA. Oomen, S Paez, PJ Palsbøll, C Pampoulie, MJ Ruiz-López, H Svandal, C Theofanopoulou, J Vries, AM Waldvogel, G Zhang, C J Mazzoni, ED Jarvis, M Bálint, European Reference Genome Atlas (ERGA) Consortium, The era of reference genomes in conservation genomics. *Trends in Ecology and Evolution*. 37(3):197. <https://doi.org/10.1016/j.tree.2021.11.008>
- 2021 **J Malukiewicz**<sup>(AB)</sup>, J Dergam, AD Grativol, CS Igayara, CR Ruiz-Miranda, PA Nicola, LMC Pereira, A Varsani, MA Wilson, AC Stone, DL Silva, FFR Silva, D Zinner, C Roos. Genomic skimming and nanopore sequencing uncover cryptic hybridization in one of world's most threatened primates. *Scientific Reports*. 11:17279. <https://doi.org/10.1038/s41598-021-96404-6>
- 2021 **J Malukiewicz**<sup>(AB)</sup>, V Boere, MAB Oliveira, M D'arc, JVA Ferreira, J French, G Housman, CI Souza, L Jerusalinsky, FR Melo, MM Valença-Montenegro, SB Moreira, IO Silva, FS Pacheco, J Rogers, A Pissinatti, RCH del Rosario, C Ross, CR Ruiz-Miranda, LCM Pereira, N Schiel, FFR Silva, A Souto, V Šlipogor, S Tardif. An Introduction to the *Callithrix* Genus and Overview of Recent Advances in Marmoset Research *ILAR Journal*. ilab027, <https://doi.org/10.1093/ilar/ilab027>, -invited review
- 2021 **J Malukiewicz**<sup>(AB)</sup>, RA Cartwright, NHA Curi, JA Dergam, CS Igayara, SB Moreira, CV Molina, PA Nicola, A Noll, M Passamani, LCM Pereira, A Pissinatti, CR Ruiz-Miranda, DL Silva, AC Stone, D Zinner, C Roos. Mitogenomic phylogeny of *Callithrix* with special focus on human transferred taxa. *BMC Genomics*. 22: 239. <https://doi.org/10.1186/s12864-021-07533-1>
- 2021 ACRS Gariglio, V Boere, **J Malukiewicz**<sup>(G)</sup>, LAFA Calais Jr, IO Silva. Hematology and blood
- 2022/08 Joanna Malukiewicz-Curriculum Vitae

chemistry reference values of free-ranging *Callithrix geoffroyi* in urban environment in Espírito Santo state, Brazil. *Journal of Medical Anthropology*. 50:157-163.

<https://doi.org/10.1111/jmp.12518>

- 2019 RR Ackermann, ML Arnold, JA Cahill, L Cortés-Ortiz, BJ Evans, BR Grant, PR Grant, B Hallgrimsson, R Humphreys, CJ Jolly, **J Malukiewicz**<sup>(F)</sup>, MD Nidiffer, CJ Percival, T Ritzman, C Roos, CC Roseman, L Schroeder, FH Smith, K Warren, R Wayne, D Zinner. Hybridization in human evolution: insights from other organisms. *Evolutionary Anthropology*. 28:189- 209. <https://doi.org/10.1002/evan.21787>  
-Top downloaded paper in Wiley Journals 2018-2019
- 2019 **J Malukiewicz**<sup>(ACG)</sup>. A review of the evolutionary and conservation implications of experimental, natural, and anthropogenic hybridization in *Callithrix* marmosets. *International Journal of Primatology*. 40:72-98. <https://doi.org/10.1007/s10764-018-0068-0>
- 2018 FFR Silva, **J Malukiewicz**<sup>(CFG)</sup>, LC Silva, RS Carvalho, CR Ruiz-Miranda, FAS Coelho, MP Figueira, V Boere, IO Silva. A survey of natural and introduced *Callithrix* species distribution in southern and eastern portions of Minas Gerais state, Brazil. *Primate Conservation*. 32:1-18.
- 2018 RS Carvalho, HG Bergallo, C Cronemberger, T Guimarães-Luiz, CA Igayara-Souza, L Jerusalinsky, C Knogge, WR Lacerda, **J Malukiewicz**<sup>(G)</sup>, FR Melo, SB Moreira, DG Pereira, A Pissinatti, M Port-Carvalho, CR Ruiz-Miranda, D Wormell. *Callithrix aurita*: A tiny primate on the edge of extinction in the Brazilian Atlantic Forest. *Neotropical Primates*. 24:1-8.
- 2017 **J Malukiewicz**<sup>(AB)</sup>, K Guschanski, C Hepp, AC Stone. Two new complete mitochondrial genomes of *Callithrix* marmosets and a mitochondrial phylogeny of the *jacchus* marmoset group. *American Journal of Physical Anthropology*. 162(1):157-169. <https://doi.org/10.1002/ajpa.23105>
- 2016 **J Malukiewicz**<sup>(AB)</sup>, K Guschanski, CR Ruiz-Miranda, MAO Monteiro da Cruz, AD Grativol, AC Stone. Application of PE-RADseq to the study of genomic diversity and divergence of two Brazilian marmoset species (*Callithrix jacchus* and *C. penicillata*). *American Journal of Primatology*. 79(2):1-12. <https://doi.org/10.1002/ajpa.23105>
- 2015 G Housman, **J Malukiewicz**<sup>(D,F)</sup>, V Boere, AD Grativol, LCM Pereira, IO Silva, CR Ruiz-Miranda, R Truman, AC Stone. Mycobacterial pathogens that cause tuberculosis and leprosy can be detected in wild animal populations using non-invasive cheek swab samples and qPCR assays. *PLOS Neglected Tropical Diseases*. 9(11): e0004198. <https://doi.org/10.1371/journal.pntd.0004198>
- 2015 **J Malukiewicz**<sup>(AB)</sup>, V Boere, L Fuzessy, AD Grativol, IO Silva, LCM Pereira, CR Ruiz Miranda, YM Valença, AC Stone. Natural and anthropogenic hybridization in two species of eastern Brazilian marmosets (*Callithrix jacchus* and *C. penicillata*). *PLOS One*. 10(6):e0127268. <https://doi.org/10.1371/journal.pone.0127268>
- 2014 **J Malukiewicz**<sup>(AB)</sup>, V Boere, JA French, L Fuzessy, AD Grativol, IO Silva, LCM Pereira, CR Ruiz-Miranda, YM Valença, AC Stone. Hybridization effects genetic diversity of the common and black-tufted marmoset (*Callithrix jacchus* and *C. penicillata*) mitochondrial control region. *American Journal of Physical Anthropology*. 155:522-536. <https://doi.org/10.1002/ajpa.22605>
- 2014 LF Fuzessy, IO Silva, **J Malukiewicz**<sup>(B)</sup>, FFR Silva, MC Ponzio, V Boere, RR Ackermann. Morphological variation in wild marmosets (*Callithrix penicillata* and *C. geoffroyi*) and their hybrids. *Evolutionary Biology*. 41:480-493. <https://doi.org/10.1007/s11692-014-9284-5>

- 2012 RC Iskow, O Gokcumen, A Abyzov, **J Malukiewicz**<sup>(EFG)</sup>, Q Zhu, AT Sukumar, AA Pai, RE Mills, L Habegger, DA Cusanovich, MA Rubel, GH Perry, M Gerstein, AC Stone, Y Gilad, C Lee. Regulatory element copy number differences shape primate expression profiles. *PNAS*. 109(31):12656-12661. <https://doi.org/10.1073/pnas.1205199109>
- 2006 EG Chapman, BA Foote, **J Malukiewicz**<sup>(F)</sup>, WR Hoeh. 2006. Parallel evolution of larval morphology and habitat in the snail-killing fly genus *Tetanocera*. *Journal of Evolutionary Biology*. 19(5):1459-1474. <https://doi.org/10.1111/j.1420-9101.2006.01132.x>

### Articles under peer-review in international scientific journals

1. Joanna Malukiewicz<sup>(AB)</sup>, Mirela D'arc, Ceclia A. Dias, Reed A. Cartwright, Adriana D. Grativol, Silvia Bahadian Moreira, Antonizete R Souza, Maria Clotilde Henriques Tavares, Alcides Pissinatti, Carlos R. Ruiz-Miranda, André F. A. Santos. Bifidobacteria Define Gut Microbiome Profiles of Golden Lion Tamarin (*Leontopithecus rosalia*) and Marmoset (*Callithrix* sp.) Metagenomic Shotgun Pools. *Scientific Reports*. Preprint available <https://doi.org/10.21203/rs.3.rs-1917568/v1>

### Other academic articles: Manuscripts in preparation

1. **Joanna Malukiewicz**<sup>(ACFG)</sup>, V Boere, NHA Curi, J Dergam, JA French, MP Hoepfner, J Johnson, CR Ruiz-Miranda, PA Nicola, M Passamani, LCM Pereira, J Rogers, C Roos, R Rosario, IO Silva, DL Silva, AC Stone, MT Oliva, L Walter, R Cartwright. The genome of the black-tufted marmoset provides new insights into the immunogenetics and evolutionary history of *Callithrix*.
2. **J Malukiewicz**<sup>(AB)</sup>, KA Warren, ILC Bandeira, V Boere, RS Carvalho, NHA Curi, JA Dergam, CS Igayara, SB Moreira, CV Molina, PA Nicola, IO Silva, M Passamani, LCM Pereira, A Pissinatti, J Rogers, CR Ruiz-Miranda, AA Quirino, DL Silva, MOM Silva, Rebecca R Ackermann. Morphometric variation in *Callithrix* species and anthropogenic hybrids.
3. JLG Fonseca, MAB Oliveira, CS Igayara, PA Nicola, LCM Pereira, J Rogers, RCH del Rosario, C Roos, J Malukiewicz<sup>(B)</sup>. Comparison of mitogenomic and mitochondrial markers for the phylogenetic and evolutionary study of marmosets in captivity, with special focus on *Callithrix jacchus*.
4. **J Malukiewicz**<sup>(AB)</sup>, RA Cartwright, NHA Curi, JA Dergam, K Guschanski, CS Igayara, SB Moreira, CV Molina, PA Nicola, M Passamani, LCM Pereira, AA Quirino, A Pissinatti, CR Ruiz-Miranda, J Rogers, R Rosario, DL Silva, AC Stone, T Valk, C Roos. Evolutionary insights in *Callithrix* from low-coverage marmoset speciation and hybridization genomics.

### International Press Coverage

1. Mongabay, 19-OCT-2020: "Vítimas do tráfico, saguis invasores podem levar macacos da Mata Atlântica à extinção." (Victims of trafficking, invading marmosets can drive Atlantic Forest monkeys to extinction)
2. O Globo, 26-AUG-2020: "Ameaça além da aparência: estudo sinaliza impacto de saguis invasores no DNA dos nativos." (Threat beyond appearance: study signals impact of invasive marmosets on native DNA).

### INVITED TALKS

- 2022 Afonso Silva Research Group, University of Pittsburgh, Pittsburgh, PA, US, Departmental Seminar: An Overview of Linking *Callithrix* Evolution and Genomics with Marmoset Biomedical Use
- 2022 Marmoset Working Group Genetics Subgroup Webinar: *Callithrix* Population and Comparative Genomics-Linking *Callithrix* Evolutionary History with Biomedical Use of Marmosets (invited speaker)
- 2022 Jenny Tung Research Group, Max Plank Institute for Evolutionary Anthropology, Department of Primate Behavior and Evolution, Department Seminar: Marmoset Speciation Genomics, Immunogenetics, and Metagenomics (invited speaker)
- 2022 Júlio César Bicca-Marque Research Group, Pontifical Catholic University of Rio Grande do Sul, School of Sciences, Primatology Laboratory, Departmental Seminar: *Callithrix* genomics and immunogenetics (invited departmental speaker).
- 2022 University of São Paulo, Pasteur Institute: The gut microbiome of *Callithrix* marmosets in captivity and the wild.
- 2022 University of São Paulo, Institute of Tropical Medicine, Cadde Project Weekly Project Meeting: *Callithrix* genomics and immunogenetics ... beyond the common marmoset (*C. jacchus*). (Invited seminar speaker).
- 2022 University of Göttingen, Department for Animal Biodiversity and Evolution Seminar Series: The gut microbiome of exudivorous marmosets in the wild and captivity. (Invited seminar speaker)
- 2022 International Primatological Society 2020, Quito Ecuador, Symposium: Primate hybridization and speciation: Genomic Data Reveal Complex Admixture in Anthropogenic *Callithrix* Hybrids. (Invited seminar speakers)
- 2022 International Primatological Society 2020, Quito Ecuador, Symposium: Health and status of wild and captive marmosets: An Overview of Taxonomy, Diversity, and Conservation Issues in Wild and Captive *Callithrix* Populations. (invited contributor)
- 2021 UNIRIO, BioSemana: Occurrence, Detection, and Importance of Hybridization of Marmosets in the *Callithrix* Genus, (invited speaker)
- 2021 Nanopore Community Meeting: Genomic skimming on the MinION uncovers cryptic hybridization in the buffy-tufted marmoset, one of world's most threatened primates. (Invited plenary speaker)
- 2021 National Institutes of Health: NIMH/NINDS: Marmoset (*Callithrix*) Genomics, Evolution, Hybridization, and Metagenomics at the Intersection of Basic and Biomedical Research. (invited seminar speaker)
- 2021 American Association of Physical Anthropologists, Baltimore, MD, USA, Symposium: Genomic Insights into Nonhuman Primate Behavior, Biology, and Evolution: Environment Effects on the *Callithrix* Gut Microbiome. (invited contributor)
- 2021 Dr. Christina Bergey Research Group, Rutgers University, New Brunswick, NJ. Research Group Webinar: Marmoset speciation and hybridization (invited speaker)
- 2021 Marmoset Working Group - Genetics Subgroup. Subgroup Webinar: Studying hybridization in marmosets. (Invited internal speaker)
- 2021 IV Video Journey of Operation Primates: Buffy-tufted marmosets: invaded by their relatives, refugees without territory, organized by the Chico Mendes Institute for Conservation and Biodiversity (ICMBio), Brasília, Brazil. Webinar: The conservation genetics of the buffy-tufted marmoset. (Invited speaker)

- 2020 Marmoset Working Group, Webinar, Role of *Bifidobacterium* in marmoset health (invited speaker)
- 2018 ILAR Roundtable, National Academy of Sciences, Washington DC, USA. Workshop: Care, Use and Welfare of Marmosets as Animal Models for Gene Editing-Based Biomedical Research (invited speaker)
- 2016 International Primatological Society 2016 meeting, Chicago, Illinois, USA. Symposium: Hybridization and Natural Hybrid Zones in Primates (invited contributor)
- 2016 International Primatological Society 2016 meeting, Chicago, Illinois, USA. Symposium: Hybridization in human evolution: what can other organisms tell us? (Invited contributor)

### **CONTRIBUTED TALKS AND POSTERS AT NATIONAL AND INTERNATIONAL CONFERENCES**

- 2020 **J Malukiewicz**, RA Cartwright, JA Dergam, CS Igaraya, S Kessler, SB Moreira, LT Nash, PA Nicola, LCM Pereira, A Pissinati, CR Ruiz Miranda, AT Ozga, C Roos, DL Silva, AC Stone, AD Grativol The Effects of Host Taxon, Hybridization, and Environment on the Gut Microbiome of Callithrix Marmosets. American Association of Physical Anthropologists Annual Meeting, Los Angeles, CA, EUA.
- 2016 **J Malukiewicz**, RR Ackermann, NHA Curi, JA Dergam, LF Fuzessy, K Guschanski, AD Grativol, PA Nicola, LCM Pereira, CR Ruiz-Miranda, M Passamani, DL Silva, AC Stone. Phenotypic and Genetic Signatures of Natural Hybridization in Callithrix Marmosets Palestra de simpósio, "Hybridization and Natural Hybrid Zones in Primates." International Primatological Society Congress, Chicago, IL, EUA.
- 2016 J Malukiewicz, RR Ackermann, NHA Curi, JA Dergam, LF Fuzessy, K Guschanski, AD Grativol, PA Nicola, LCM Pereira, CR Ruiz-Miranda, M Passamani, DL Silva, AC Stone. Genetic and morphological variation in natural and anthropogenic marmoset hybrids. Palestra de simpósio, "Hybridization in human evolution: what can other organisms tell us?" American Association of Physical Anthropologists Annual Meeting, Atlanta, GA, EUA.
- 2016 J Malukiewicz, RS Carvalho, RR Ackermann, DL Silva, FFR Silva, C Igaraya, RA Lignon. Palestra de simpósio, SMBE Satellite Meeting on the Genetics of Admixed Populations. San Antonio, TX, EUA.
- 2015 J Malukiewicz, V Boere, IO Silva, AC Stone. Application of RADseq to the Study of Genomic Diversity and Divergence in Eastern Brazilian Marmosets, Cartaz, European Society for Evolutionary Biology Conference, Lausanne, Suíça.
- 2015 TP Honap, G Housman, G Erkenwick, J Malukiewicz, V Boere, LCM Pereira, AD Grativol, CR Ruiz-Miranda, IO Silva, M Watsa, AC Stone. Investigating the presence of mycobacterial pathogens in New World primates. Cartaz. American Association of Physical Anthropologists Annual Meeting. St Louis, MO, EUA.
- 2015 J Malukiewicz. The integration of microbiome, genomic, hybridization, and morphological data in the study of primate speciation. Integrante, mesa redonda: Genomic and Morphological Signatures of Speciation. Congresso Brasileiro de Primatologia, Manaus, Brasil.
- 2014 G Housman, V Boere, AD Grativol, J Malukiewicz, IO Silva, CR Ruiz Miranda, AC Stone. Validation of qPCR methods for the detection of Mycobacterium in New World animal reservoirs. Cartaz. American Association of Physical Anthropologists Annual Meeting, Calgary, AB, Canadá.

- 2013 J Malukiewicz, V Boere, L Fuzessy, AD Grativol, IO Silva, LCM Pereira, CR Ruiz-Miranda, YM Valença, and AC Stone. Palestra. Genetic diversity and phylogenetics of two hybridizing Atlantic Forest marmoset species, common marmosets (*Callithrix jacchus*) and black-tufted marmosets (*Callithrix penicillata*). American Association of Physical Anthropologists Annual Meeting, Knoxville, TN, EUA.
- 2013 G Housman, V Boere, AD Grativol, J Malukiewicz, LCM Pereira, IO Silva, CR Ruiz-Miranda, AC Stone. Diagnosing Mycobacterium in Marmosets. Cartaz. American Association of Physical Anthropologists Annual Meeting, Knoxville, TN, EUA.
- 2012 J Malukiewicz, V Boere, MA Borstelmann de Oliveira, L Fuzessy, AD Grativol, E Martinez, IO Silva, LCM Pereira, CR Ruiz-Miranda, YM Valença, AC Stone, Palestra, Penichus: Genetic Variability and Phylogeny of the Mitochondrial (mtDNA) Control Region of *Callithrix jacchus* and *C. penicillata* and their hybrids. Mid-West Primate Interest Group, DeKalb, IL, EUA.
- 2012 J Malukiewicz, AD Grativol, CR Ruiz-Miranda, AC Stone. Almost Carioca: Hybridization in Common and Black-Tufted Marmosets in Rio de Janeiro State. Cartaz. American Association of Physical Anthropologists Annual Meeting, Portland, OR, EUA.
- 2011 J Malukiewicz. Integrante, Mesa Redonda de Hibridização Primata, Brazilian Primatology Congress, Curitiba, Brasil. 2011 J Malukiewicz, I Oliveira e Silva, CR Ruiz-Miranda, AC Stone. Hybridization One Factor Driving Primate Evolution. Mesa Redonda, Brazilian Primatology Conference, Curitiba, Brasil. 2011 J Malukiewicz, AD Grativol, MAB de Oliveira, LCM Pereira, CR Ruiz Miranda, AC Stone Development of a Sampling Scheme for the Genetic Study of Marmoset Hybridization. Cartaz. Brazilian Primatology Conference, Curitiba, Brasil.

#### **GRANTS AND AWARDS (approx. 287,000 €/329,000US\$)**

- 2018 Marie Skłodowska-Curie Individual Fellowship (171,000 €/204,000US\$, duration 2019-2021) Hybrid Immunogenetics- Effects of major histocompatibility complex immunogenetic profiles of wild hybrid and non-hybrid marmosets on their susceptibility to arbovirus infections. Main applicant
- 2018 Arizona State University School of Life Sciences Research Investment Grant (52,636€/63,000US\$, duration 2018-2019) Develop Brazilian marmosets (genus *Callithrix*) into a new-world primate model for biomedical, ecological, and evolutionary research. Co-applicant
- 2017 Arizona State University School of Life Sciences Research RTI Innovative Post-Doctoral Research Grant (3079€/3675US\$) *Callithrix* hybrid immunogenetics. Sole applicant
- 2016 American Society of Primatologists Conservation Small Grant (1257€/1500US\$) Mitochondrial population genomics as a tool for *Callithrix aurita* and *C. flaviceps* conservation. Sole applicant
- 2015 European Society for Evolutionary Biology, EBES Conference Travel Grant (€1,500/1790US\$)
- 2015 International Primatological Society Research Grant (1257€/100US\$) Characterize the *Callithrix* gut and scent gland microbiomes. Sole applicant

2015	Nacey Maggioncalda Foundation Goldberg Research Grant (8400€/10,000US\$) The speciation continuum of the <i>Callithrix</i> genus: understanding genomic speciation in primates. Sole applicant
2014	American Association of Physical Anthropologists Professional Development Grant (4190€/5000US\$) Next generation divergence genomics of <i>Callithrix flaviceps</i> , <i>C. geoffroyi</i> , and their hybrids. Sole applicant
2013	Young Talent Research Grant, Brazilian Ministry of Science, Technology, Innovations, and Communications (11,523€/13,752US\$) Genomic and Morphological Signatures of Speciation in <i>Callithrix</i> . Main applicant
2011	Arizona State University Graduate and Professional Student Association Research Grant (1257€/1500US\$) Hybridization and speciation in common and black-tufted marmosets. Sole applicant
2010	US National Science Foundation Doctoral Dissertation Improvement Grant (16,758€/20,000US\$ duration 2010-2011) Hybridization and speciation in common marmosets ( <i>C. jacchus</i> ) and black-tufted marmosets ( <i>C. penicillata</i> ). Co-applicant
2010	Fulbright Fellowship to Brazil (11,044€/13,180US\$ duration 2011) Hybridization and speciation in common marmosets ( <i>C. jacchus</i> ) and black-tufted marmosets ( <i>C. penicillata</i> ). Sole applicant
2010	International Primatological Society Research Grant (1257€/1500US\$) Hybridization and speciation in common and black-tufted marmosets. Sole applicant
2010	Arizona State University School of Life Sciences Facilities Initiative for Graduates Grant. Hybridization and speciation in common and black-tufted marmosets. Sole applicant
2010	Arizona State University Graduate and Professional Student Association Jump Start Grant (418€/500US\$) Hybridization and speciation in common and black-tufted marmosets. Sole applicant
2009	US National Science Foundation, GK12 Graduate Fellowship (duration 2010-2011)
2001	Henry Rutgers Scholar, Rutgers University, New Brunswick, New Jersey, USA
1997-2001	Aresty Merit Scholarship, Rutgers University, New Brunswick, New Jersey, USA
1997-2000	Membership Rutgers College Honors Program, Rutgers University, New Brunswick, New Jersey, USA

## **SUPERVISION**

### ***Supervision of PhD students:***

2020-2021	João Luiz Fonseca, German Primate Center (co-supervisor, main supervisor Dr. Christian Roos)
2017-2019	Illaira Bandeira, Universidade Federal do Vale do Rio São Francisco (Masters degree project, primatological field work training, molecular laboratory training, main supervisor Dr. Patricia A. Nicola)

### ***Supervision of Bachelor students:***

2017	Joelle Johnson, Arizona State University (research training)
2015-2016	Daniel L Silva, Universidade Federal de Viçosa (field and molecular laboratory training)
2013	Theresa Araque, Arizona State University (molecular laboratory training)
2013	Jason Goldberg, Arizona State University (molecular laboratory training)



2012	Clay Woodcock, Arizona State University (molecular laboratory training)
2012	Ariel Johnson, Arizona State University (molecular laboratory training)
2012-2013	Michael Neimeyer, Arizona State University (molecular laboratory training)
2012-2013	Kaitlyn Buss, Arizona State University (molecular laboratory training)
2010-2011	Danielle Johnson, Arizona State University (molecular laboratory training)

## **PEDAGOGICAL APPOINTMENTS**

### ***PhD dissertation project proposal defense committee***

2022	Ana Raquel Gomez Faria. Microbiological and nutritional aspects related to the diet of maned wolves ( <i>Chrysocyon brachyurus</i> – Carnivora: Canidae) in the Cerrado. Universidade Estadual do Norte Fluminense, Campos, Rio de Janeiro, Brazil (main supervisor- Dr. Carlos Ruiz-Miranda)
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### ***PhD qualification examination committee***

2022	Adrielle Cezar, Morphological and genetic variation in <i>Callithrix</i> sp. collected during 2018 sylvatic yellow fever outbreak in Rio de Janeiro, Brazil, Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil
2021	Tiela Trapp, Fecal microbiota of wild and captive capuchin monkeys ( <i>Sapajus nigritus</i> ) from southern Brazil, Universidade Federal do Rio Grande do Sul, Porto Alegre, Rio Grande do Sul, Brazil

### ***Masters thesis project defense committee member***

2017-2019	Illaira Bandeira, Investigation of arboviruses in non-human primates ( <i>Callithrix</i> spp.) and blood-sucking mosquitoes in northeastern Brazil, Universidade Federal do Vale do Rio São Francisco, Petrolina, Pernambuco, Brazil (main supervisor -Dr. Patrica A. Nicola)
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### ***Masters examination committee***

2018	Robyn Humphreys, University of Cape Town, Cape Town, South Africa
2016	Veronica Barid de Souza, Universidade Federal de Viçosa, Viçosa, Brazil

### ***Bachelors examination committee***

2021	Giulia Lopes, Instituto Federal do Rio de Janeiro, Rio de Janeiro, Brazil
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## **UNIVERSITY PEDAGOGICAL TRAINING**

2008-2009	US National Science Foundation GK12 Training Fellowship for Teaching Scientific Inquiry, 2 weekly graduate seminars, 2 day/week embed in US high school biology classes
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## **TEACHING EXPERIENCE**

### ***Coursework development and teaching (graduate level)***

2019	<i>Introduction to Bioinformatics and Genomics</i> , Universidade Federal do Vale do Rio São Francisco, Petrolina, Pernambuco, Brazil. (2 weeks, 40 hours/week). Voluntarily developed and taught intensive class introductory class for next generation sequencing technologies and of processing evolutionary data via command line. Ca. 30 students.
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### ***Coursework development and teaching (undergraduate level)***

2012-2013    *Organic Evolution*, Arizona State University, Tempe, Arizona, USA (3 semesters).  
Worked with team of teaching assistants to develop weekly, science-inquiry lessons  
for evolutionary biology. Ca. 30 students.

#### **Teaching assistant (undergraduate level)**

2011-2012    *General Genetics*, Arizona State University, Tempe, Arizona, USA (3 semesters).  
Responsible for preparing weekly lecture on genetics topics, grading quizzes and  
laboratory practicals. Ca. 30 students.

2008        *Human Anatomy and Physiology I*, Arizona State University, Tempe, Arizona, USA (1  
semester). Responsible for preparing weekly lecture, set-up of laboratory material for  
each lesson, grading quizzes and laboratory practicals. Ca. 30 students.

2007-2008    *The Living World*, Arizona State University, Tempe, Arizona, USA (2 semesters, 20 hrs/  
week). Responsible for preparing weekly introductory biology lectures, set-up of  
laboratory material for each lesson, grading quizzes and laboratory practicals. Ca. 30  
students.

2004        *Primate Ecology and Behavior Field Course*, Ometepe Field Station, Ometepe Island,  
Nicaragua (4 weeks, 40 hours/week). Responsible for student instruction on field  
methodology in primate tracking, behaviour, and observation, grading of student  
presentations and exams. Ca. 20 students.

2003-2004    *Introduction to Cultural Anthropology*, Kent State University, Kent, Ohio, USA (3  
semesters, 10 hrs/week). Responsible for exam proctoring, grading of student  
exams, and organizing course material. Ca. 60 students.

2003-2004    *Human Evolution Laboratory*, Kent State University, Kent, Ohio, USA (2 semesters, 10  
hrs/week). Responsible for preparing weekly lectures, set-up of laboratory material  
for each lesson, grading quizzes and laboratory practicals. Ca. 10 students.

#### **Workshop development and training**

2018        American Association of Anthropological Genetics Bioinformatics Workshop,  
University of Buffalo, Buffalo, New York, USA (3 days, 8 hours/day). Voluntarily  
curated workshop Github repository ([https://github.com/Sagui-omics/AAAGs\\_2018](https://github.com/Sagui-omics/AAAGs_2018)),  
instructor for workshop session on command line and version control. Ca. 20  
students.

#### **INTERNATIONAL NETWORK MEMBERSHIP**

2020-present    Member of the **European Reference Genome Atlas Consortium**

2020-present    Member of the **Marmoset Working Group**, genomics and neural imaging  
subgroups

#### **PROFESSIONAL SERVICES**

2020-2021    **Monthly scientific journal club founder and co-organizer**, "Primato-omics,"  
monthly international discussion group, Zoom video conference format

2021        Voluntary reviewer of final student "Scientific Initiation" reports, Universidade de  
São Paulo, São Paulo, Brazil ("Scientific Initiations" are Brazilian undergraduate  
scientific apprenticeships, review of 5 reports)

2018        **Workshop co-organizer**, American Association of Anthropological Genetics  
Bioinformatics Workshop, University of Buffalo, Buffalo, New York, USA

2017-present    **Chair of educational committee**, American Association of Anthropological Genetics

- 2015 **Roundtable session organizer**, *The integration of microbiome, genomic, hybridization, and morphological data in the study of primate speciation*, Brazilian Primatology Conference, Manuas, Brazil
- 2015-2018 **Conservation committee member**, International Primatological Society
- 2014-2017 **Education committee member**, American Association of Anthropological Genetics
- 2012 **Organizer of scientific outreach activities** on mammalian hybridization, Sandra Day O'Connor High School, Phoenix, AZ, USA
- 2011 **Organizer of outreach lecture** on Marmoset hybrids in Rio de Janeiro State, Durval Palmeira Elementary School, Silva Jardim, RJ, Brazil
- 2010-2012 **Organizer of scientific outreach activities on invasive species**, Sandra Day O'Connor High School, Phoenix, AZ, USA
- 2010 **Graduate student research symposium co-chair**, Graduates in Earth, Life, and Social Sciences, Arizona State University, Phoenix, AZ, USA

### **Society memberships**

- 2020-present American Genetics Association
- 2015-present International Primatological Society
- 2015-present American Society of Primatologists
- 2015-present American Association of Anthropological Genetics

### **Grant Proposal reviewer**

*The Leaky Foundation*

### **Journal referee**

*American Journal of Primatology, Anais da Academia Brasileira de Ciências, Conservation Genetics, Folia Primatologica, Global Ecology and Conservation, International Journal of Primatology, Nature, Nature Communications, PLoS One, Systematic Biology, Genome Research*

### **FIELD WORK**

- 2015-2019 Morphological, genomic, and metagenomic sampling of wild and captive *Callithrix* species and hybrids in SE and NE Brazil
- 2011 11 month genetic sampling of wild *Callithrix jacchus* and *C. penicillata* and their hybrids for PhD dissertation, Brasília, Goiás State, Pernambuco State, Bahia State, Rio de Janeiro State, Minas Gerais State, Brazil
- 2001 Collection of wild howler monkey (*Alouatta palliata*) behavioral data for undergraduate thesis, Ometepe Biological Field Station, Nicaragua

### **LANGUAGE SKILLS**

n=native, f=fluent, i=intermediate, b=beginner

Polish: speak (n), write (n), read (n), understand (n)

English: speak (n), write (n), read (n), understand (n)

Portuguese: speak (f), write (f), read (f), understand (f)

Spanish: speak (b), write (b), read (i), understand (i)

German: speak (i), write (i), read (i), understand (i)

**PROFESSIONAL REFERENCES**

Dr. Anne Stone, Arizona State University, acstone@asu.edu

Dr. Jeffrey Rogers, Baylor College of Medicine, jr13@bcm.edu

Dr. Jeff French, University of Nebraska at Omaha, jfrench@unomaha.edu

Prof. Dr. Christian Roos, German Primate Center, CRoos@dpz.eu

Dr. Carlos Ruiz-Miranda, Universidade Estadual do Norte Fluminense, cruizmiranda@gmail.com

Dr. Reed Cartwright, Arizona State University, cartwright@asu.edu

Dr. Jorge Dergam, Universidade Federal de Viçosa, dergam@ufv.br