

## Reuber Lana Antoniazzi Junior

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### EDUCATION

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- **2020** – Ph.D. in Science, Instituto de Ecología A.C. (INECOL), Mexico.
- **2015** – Master Degree in Biological Sciences, Universidade Estadual de Montes Claros (Unimontes), Brazil.
- **2012** – B.S. in Biology, Universidade Federal de Ouro Preto (UFOP), Brazil.

### PROFESSIONAL EXPERIENCE\*

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- **2021 – current** – Visiting Professor  
Part-time lecturer of wildlife management courses for graduate and undergraduate students at Stephen F. Austin State University (SFA), Texas, US. Working on research projects in collaboration with colleagues and mentoring undergraduate and graduate students.
- **2021 – 2021** – Post-Doctoral Research Associate  
Department of Biology, Stephen F. Austin State University. Development of research focused on temporal changes of fish assemblages in an urban stream from East Texas, led by Dr. Carmen Montaña.
- **2021 – 2022** – Invited Lecturer  
Course offered to graduate students once a year at Museu Emílio Goeldi, Pará state, Brazil.
- **2020 – 2020** – Invited Lecturer  
Course offered to masters students at Universidad Libre (Unilibre) seccional Barranquilla, Colombia.
- **2020 – 2020** – Technician  
Part-time technician on a conservation project of an endangered pine species, *Abies hickelii* Flous & Gausson, in Veracruz state, Mexico. Project coordinated by Pronatura Veracruz in collaboration with the Royal Botanic Garden (Kew), Universidad Nacional Autónoma de México (UNAM).

\* Only after completion of the Ph.D.

## TEACHING EXPERIENCE

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### Stephen F. Austin State University - US

Wildlife Techniques & Wildlife Population Ecology (Spring, 2022 and 2023)  
Quantitative Ecological Methods in R & Non-Game Wildlife Ecology (Fall, 2022)  
Field Wildlife Techniques (Summer, 2022)  
Predator Ecology and Conservation (Fall, 2021)

### Museu Emílio Goeldi - Brazil

Quantitative Methods in Community Ecology (Spring, 2021 & Summer 2022).

### Universidad Libre (Unilibre) - Colombia

Systematic Review and Meta-Analysis (Fall, 2020).

## GRANTS AND SCHOLARSHIPS<sup>‡</sup>

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- **2022 – current** – Williams, J., Pascarella, J., Cook, J., Kliner, K., Bennett, D., Kulhavy, D., **Antoniuzzi, R.** A Survey of the Bees of East Texas, with a Focus on Floral Interactions and Conservation Status of Bumble Bees and Long-Horned Bees. Office of the Texas Comptroller (\$499,241). *Funded*.
- **2021 – 2021** – Martins, M.B., and several others, including **Antoniuzzi, R.** Ecosystem services in the metropolitan region of a tropical big city (Belém, Brazil): assessing sustainability in the urban environment; “Serviços Ecosistêmicos na Região Metropolitana de Belém: avaliando a sustentabilidade no ambiente urbano” (~\$40,000). *Not funded*.
- **2016 – 2020** – Scholarship awarded for Ph.D. studies at the Instituto de Ecología A.C. by the Consejo Nacional de Ciencia y Tecnología (CONACyT), Mexico government (~\$36,000). *Funded*.
- **2013 – 2015** – Scholarship awarded for Master studies at the Universidade Estadual de Montes Claros by the Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (CAPES), Brazil government (~\$12,000). *Funded*.
- **2009 – 2011** – Scholarship awarded for scientific initiation program during the undergraduate at the Universidade Federal de Ouro Preto by the Fundação de Amparo à Pesquisa do Estado de Minas Gerais (FAPEMIG/PIBIC), Brazil government (~\$3,000). *Funded*.

**\*Total secured: ~\$550,241**

## PUBLICATION LIST

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### Original Articles – Published

22) Wahlberg, A., **Antoniuzzi, R.**, Schalk, C.M. (*accepted*). Patterns of the introduction, spread, and impact of the brown widow spider, *Latrodectus geometricus* (Araneae: Theridiidae), in the Americas. The Journal of Arachnology.

21) **Antoniuzzi, R.**, Montaña, C.G., Peterson, D., Schalk, C.M. (2023). Changes in taxonomic and functional diversity of an urban stream fish assemblage: A 30-year perspective. *Frontiers in Environmental Science*, 10, 965291. <https://doi.org/10.3389/fenvs.2022.965291>

20) Ollerton, J., Trunschke, J., Havens, K., Landaverde-González, P., Keller, A., Gilpin, A.M., Rech, A.R., Baronio, G.J., Phillips, B.J., Mackin, C., Stanley, D.A., Treanore, E., Baker, E., Rotheray, E.L., Erickson, E., Fornoff, F., Brearley, F.Q., Ballantyne, G., Iossa, G., Stone, G.N., Bartomeus, I., Stockan, J.A., Leguizamón, J., Prendergast, K., Rowley, L., Giovanetti, M., Bueno, R.O., Wesselingh, R.A., Mallinger, R., Edmondson, S., Howard, S.R., Leonhardt, S.D., Rojas-Nossa, S.V., Brett, M., Joaqui, T., **Antoniuzzi, R.**, Burton, V.J., Feng, H.H. Tian, Z.X., Xu, Q., Zhang, C., Shi, C.L., Huang, S.Q., Cole, L.J., Bendifallah, L., Ellis, E.E., Hegland, E.J., Díaz, S.S., Lander, T.A., Mayr, A.V., Dawson, R., Eeraerts, M., Armbruster, W.S., Walton, B., Adjlane, N., Falk, S., Mata, L., Geiger, A.G., Carvell, C., Wallace, C., Ratto, F., Barberis, M., Kahane, F., Connop, S.A. Stip, Sigrist, M.R., Vereecken, N.J., Klein, A.M., Baldock, K., Arnold, S.E. (2022). Pollinator-flower interactions in gardens during the COVID-19 pandemic lockdown of 2020. *Journal of Pollination Ecology*, 31, 87-96. [https://doi.org/10.26786/1920-7603\(2022\)695](https://doi.org/10.26786/1920-7603(2022)695)

19) Romero, G.Q., Gonçalves-Souza, T., Roslin, T., Marquis, R.J., Marino, N.A.C., Novotny, V., Cornelissen, T., Orivel, J., Sui, S., Aires, G., **Antoniuzzi, R.**, Dáttilo, W., Breviglieri, C.P.B., Busse, A., Gibb, H., Izzo, T.J., Kadlec, T., Kemp, V., Kersch-Becker, M., Knapp, M., Kratina, P., Luke, R., Majnarić, S., Maritz, R., Martins, P.M., Mendesil, E., Michalko, J., Mrazova, A., Novais, S., Pereira, C.C., Perić, M.S., Petermann, J., Ribeiro, S.P., Sam, K., Trzcinski, M.K., Vieira, C., Westwood, N., Bernaschini, M.L., Carvajal, V., González, E., Jausoro, M., Kaensin, S., Ospina, F., Perez, J.C., Quesada, M., Rogy, P., Srivastava, D., Szpryngiel, S., Tack, A.J.M., Teder, T., Videla, M., Viljur, M.L., Koricheva, J. (2022). Climate variability and aridity modulate the role of leaf shelters for arthropods: a global experiment. *Global Change Biology*, 28(11), 3694-3710. <https://doi.org/10.1111/gcb.16150>

18) Oliveira-Santos, L.G.R., **Antoniuzzi, R.**, Loyola, R.D., Vargas, A.B. (2022). Habitat structure and vertical stratification of ant assemblages across forest patches in the Brazilian Pantanal. *International Journal of Tropical Insect Science*, 42, 2351-2363. <https://doi.org/10.1007/s42690-022-00757-y>

17) Pereira, C.C., Novais, S., Barbosa, M., Negreiros, D., Gonçalves-Souza, T., Roslin, T., Marquis, R., Marino, N., Novotny, V., Orivel, J., Sui, S., Aires, G., **Antoniuzzi, R.**, Dáttilo, W., Breviglieri, C., Busse, A., Gibb, H., Izzo, T., Kadlec, T., Kemp, V., Kersch-Becker, M., Knapp, M., Kratina, P., Luke, R., Majnarić, S., Maritz, R., Martins, P.M., Mendesil, E., Michalko, J., Mrazova, A., Sertić Perić, M., Petermann, J., Ribeiro, S., Sam, K., Trzcinski, M.K, Vieira, C., Westwood, N., Bernaschini, M., Carvajal, V., González, E., Jausoro, M., Kaensin, S., Ospina, F., Cristóbal Pérez, J., Quesada, M., Rogy, P., Srivastava, D.S., Szpryngiel, S., Tack, A., Teder, T., Videla, M., Viljur, M.-L., Koricheva, J., Fernandes, G.W., Romero, G.Q., Cornelissen, T. (2022). Subtle structures with not-so-subtle functions: A data set of arthropod constructs and their host plants. *Ecology*, 103(4), e3639. <https://doi.org/10.1002/ecy.3639>

16) Silva, R.R., Martello, F., Feitosa, R.M., Silva, O.G.M., Prado, L.P., Brandão, C.R.F., Albuquerque, E.Z., Morini, M.S.C., Delabie, J.H.C., Monteiro, E.C.S., Alves, A.E.O., Wild, A.L., Christianini, A.V., Arnhold, A., Ferreira, A.C.C., Oliveira, A.M., Santos, A.D., Galbán, A., Oliveira, A.A., Subtil, A.G.M., Dias, A.M., Campos,

A.E.C., Waldschmidt, A.M., Freitas, A.V.L., Avalos, A.N., Meyer, A.L.S., Sánchez-Restrepo, A.F., Suarez, A.V., Souza, A.S., Queiroz, A.C.M., Mayhé-Nunes, A.J., Reis, A.C., Lopes, B.C., Guénard, B., Trad, B.M., Caitano, B., Yagound, B., Pereira-Silva, B., Fisher, B.L., Tavares, B.L.P., Moraes, B.B., Filgueiras, B.K.C., Guarda, C., Ribas, C.R., Cereto, C.E., Esbérard, C.E.L., Schaefer, C.E.G.R., Paris, C.I., Bueno, C., Lasmar, C.J., Costa-Milanez, C.B., Lutinski, C.J., Ortiz-Sepulveda, C.M., Wazema, C.T., Mariano, C.S.F., Barrera, C.A., Klunk, C.L., Santana, D.O., Larrea, D., Rother, D.C., Souza-Campana, D.R., Kayano, D.Y., Alves, D.L., Assis, D.S., Anjos, D.V., França, E.C.B., Santos, E.F., Silva, E.A., Santos, E.V., Koch, E.B.A., Siqueira, E.L.S., Almeida, E.A., Araujo, E.S., Villarreal, E., Becker, E., Canedo-Júnior, E.O., Santos-Neto, E.A., Economo, E.P., Araújo-Oliveira, E.S., Cuezso, F., Magalhães, F.S., Neves, F.M., Rosumek, F.B., Dorneles, F.E., Noll, F.B., Arruda, F.V., Esteves, F.A., Ramos, F.N., Garcia, F.R.M., Castro, F.S., Serna, F., Marcineiro, F.R., Neves, F.S., Nascimento, G.B., Jacintho, G.F., Camacho, G.P., Ribeiro, G.T., Lourenço, G.M., Soares, G.R., Castilho, G.A., Alves, G.P., Zurita, G.A., Santos, G.H.M., Onody, H.C., Oliveira, H.S., Vasconcelos, H.L., Paulino-Neto, H.F., Brant, H., Coelho, I.R., Gomes, I.J.M.T., Leal, I.R., Santos, I.A., Bellocq, I.M., Santos, I.C.S., Fernandes, I.O., Nascimento, I.C., Queiroz, J.M., Lattke, J.E., Majer, J., Schoederer, J.H., Dantas, J.O., Andrade-Silva, J., Díaz-Guastavino, J.M., Santos, J.S., Filloy, J., Chaul, J.C.M., Lutinski, J.A., Carvalho, K.S., Ramos, K.S., Sampaio, K.L.S., Ribeiro, L.A.M., Sousa-Souto, L., Paolucci, L.N., Elizalde, L., Podgaiski, L.R., Chifflet, L., Carvalho-Leite, L.J., Calcaterra, L., Macedo-Reis, L.E., Magnago, L.F.S., Madureira, M.S., Silva, M.M., Pie, M.R., Uehara-Prado, M., Pizo, M.A., Pesquero, M.A., Carneiro, M.A.F., Busato, M.A., Almeida, M.F.B., Tibcherani, M., Casimiro, M.S., Ronque, M.U.V., Costa, M.M.S., Angotti, M.A., Oliveira, M.V., Leponce, M., Imata, M.M.G., Martins, M.F.O., Ulysséa, M.A., Espirito-Santo, N.B., Ladino, N., Balbino, N.S., Silva, N.S., Safar, N.V.H., Andrade, P.L., Camargo, P.H.S.A., Oliveira, P.S., Dodonov, P., Luna, P., Ward, P.S., Hanisch, P.E., Silva, P.S., Divieso, R., Carvalho, R.L., Campos, R.B.F., **Antoniuzzi, R.**, Vicente, R.E., Giovenardi, R., Campos, R.I., Solar, R.R.C., Fujihara, R.T., Santos, R.J., Fagundes, R., Guerrero, R.J., Probst, R.S., Jesus, R.S., Silvestre, R., López-Muñoz, R.A., Ferreira-Châline, R.S., Almeida, R.P.S., Pinto, S.M., Santoandré, S., Althoff, S.L., Ribeiro, S.P., Jory, T., Fernandes, T.T., Andrade, T.O., Pereira, T.P.L., Gonçalves-Souza, T., Silva, T.S.R., Silva, V.N.G., Lopez, V.M., Tonetti, V.R., Nacagava, V.A.F., Oliveira, V.M., Dáttilo, W., DaRocha, W.D., Franco, W., Dröse, W., Antoniulli-Junior, W.F., Ribeiro, M.C. (2022). ATLANTIC ANTS: a data set of ants in Atlantic Forests of South America. *Ecology*, 103(2), e03580. <https://doi.org/10.1002/ecy.3580>

15) Schalk, C.M., **Antoniuzzi, R.L.**, Rosenbaum, D., Arnett, J.M., Pelletier, A., Adams, C.S., Baxter-Bray, W.S. (2021). *Amphiuma tridactylum* (Three-toed Amphiuma) Geographic Distribution. *Herpetological Review*, 52(4), 789.

14) DaRocha, W., **Antoniuzzi, R.**, Delabie, J.H.C., Schrothe, G., Fernandes, G.W., Neves, F.S. (2021). Disentangling the factors that shape bromeliad and ant communities in the canopies of cocoa agroforestry and preserved Atlantic Forest. *Biotropica*, 53(6), 1698-1709. <https://doi.org/10.1111/btp.13018>

13) **Antoniuzzi, R.**, Camarota, F., Leponce, M., Dáttilo, W. (2021). Discovery-defense strategy as a mechanism of social foraging of ants in tropical rainforest canopies. *Behavioral Ecology*, 32(5), 1022-1031. <https://doi.org/10.1093/beheco/arab054>

12) Neves, F.S., **Antoniuzzi, R.**, Camarota, F., Pacelhe, F.T., Powell, S. (2021). Spatiotemporal dynamics of the ant community in a dry forest differ by vertical strata but not by successional stages. *Biotropica*, 53(2), 372-383. <https://doi.org/10.1111/btp.12918>

11) **Antoniuzzi, R.**, Guevara R., García-Franco J.G., Janda M., Leponce M., Dáttilo W. (2021). Environmental drivers of ant spatial dominance over a tropical rainforest canopy at different tree scales. *Ecological Entomology*, 46(2), 440-450. <https://doi.org/10.1111/een.12988>

10) **Antoniuzzi R.**, Viana-Junior A.B., Pelayo-Martínez J., Ortiz-Lozada L., Neves F.S., Leponce M., Dáttilo W. (2020). Distance-decay of compositional similarity in ground, but not in canopy ant assemblages in a Mexican tropical rainforest. *Journal of Tropical Ecology*, 36: 234-242. <https://doi.org/10.1017/S0266467420000188>

9) **Antoniuzzi, R.**, Ahuatzin, D., Pelayo-Martínez, J., Ortiz-Lozada, L., Leponce, M., Dáttilo, W. (2020). On the Effectiveness of Hand Collection to Complement Baits When Studying Ant Vertical Stratification in Tropical Rainforests. *Sociobiology*, 67: 213-222. <http://dx.doi.org/10.13102/sociobiology.v67i2.4909>

8) Luna, P., Corro, E.J., **Antoniuzzi, R.**, Dáttilo, W. (2020). Measuring and Linking the Missing Part of Biodiversity and Ecosystem Function: The Diversity of Biotic Interactions. *Diversity*, 12: 86. <https://doi.org/10.3390/d12030086>

7) **Antoniuzzi, R.**, García-Franco, J., Janda, M., Leponce, M., Dáttilo, W. (2020). Diurnal foraging ant–tree co-occurrence networks are similar between canopy and understorey in a Neotropical rain forest. *Biotropica*, 52: 709-716. <https://doi.org/10.1111/btp.12773>

6) Dáttilo, W., Vásquez-Bolaños, M., Ahuatzin, D. A., **Antoniuzzi, R.**, Chávez-González, E., Corro, E., Luna, P., Guevara, R., Villalobos, F., Madrigal-Chavero, R., Falcão, J.C.F.F., Bonilla-Ramírez, A., García-Romero, A.R., de-la-Mora, A., Ramírez-Hernández, A., Escalante-Jiménez, A.L., Martínez-Falcón, A.P., Villarreal, A.I., García-Colón-Sandoval, A., Aponte, B, Juárez-Juárez, B., Castillo-Guevara, C., Moreno, C.E., Albor, C., Martínez-Tlapa, D.L., Huber-Sannwald, E., Escobar, F., Montiel-Reyes, F.J., Varela-Hernández, F., Castaño-Meneses, G., Pérez-Lachaud, G., Pérez-Toledo, G.R., Alcalá-Martínez, I., Rivera-Salinas I.S., Chairez-Hernández, I., Chamorro-Florescano, I.A., Hernández-Flores, J., Martínez-Toledo J., Lachaud, J.P., Reyes-Muñoz, J.L., Valenzuela-González, J.E., Horta-Vega, J.V., Cruz-Labana, J.D., Reynoso-Campos, J.J., Navarrete-Heredia, J.L., Rodríguez-Garza, J.A., Pérez-Domínguez, J.F., Benítez-Malvido, J., Ennis, K.K., Sáenz, L., Díaz-Montiel, L.A., Tarango-Arámbula, L.A., Quiroz-Robedo, L.N., Rosas-Mejía, M., Villalvazo-Palacios, M., Gómez-Lazaga, M., Cuautle, M., Aguilar-Méndez, M.J., Baena, M.L., Madora-Astudillo, M., Rocha-Ortega, M., Pale, M., García-Martínez, M.A., Soto-Cárdenas, M.A., Correa-Ramírez, M.M., Janda, M., Rojas, P., Torres-Ricario, R., Jones, R.W., Coates, R., Gómez-Acevedo, S.L., Ugalde-Lezama, S., Philpott, S., Joaqui, T., Marques, T., Zamora-Gutierrez, V., Martínez-Mandujano, V., Hajian-Forooshani, Z., MacGregor-Fors, I. (2020). Mexico's Ants: Who are They and Where do They Live? *The Bulletin of the Ecological Society of America*, 101: e01666. <https://doi.org/10.1002/bes2.1666>

5) Dáttilo, W., Vásquez-Bolaños, M., Ahuatzin, D. A., **Antoniuzzi, R.**, Chávez-González, E., Corro, E., Luna, P., Guevara, R., Villalobos, F., Madrigal-Chavero, R., Falcão, J.C.F.F., Bonilla-Ramírez, A., García-Romero, A.R., de-la-Mora, A., Ramírez-Hernández, A., Escalante-Jiménez, A.L., Martínez-Falcón, A.P., Villarreal,



A.I., García-Colón-Sandoval, A., Aponte, B., Juárez-Juárez, B., Castillo-Guevara, C., Moreno, C.E., Albor, C., Martínez-Tlapa, D.L., Huber-Sannwald, E., Escobar, F., Montiel-Reyes, F.J., Varela-Hernández, F., Castaño-Meneses, G., Pérez-Lachaud, G., Pérez-Toledo, G.R., Alcalá-Martínez, I., Rivera-Salinas I.S., Chairez-Hernández, I., Chamorro-Florescano, I.A., Hernández-Flores, J., Martínez-Toledo J., Lachaud, J.P., Reyes-Muñoz, J.L., Valenzuela-González, J.E., Horta-Vega, J.V., Cruz-Labana, J.D., Reynoso-Campos, J.J., Navarrete-Heredia, J.L., Rodríguez-Garza, J.A., Pérez-Domínguez, J.F., Benítez-Malvido, J., Ennis, K.K., Sáenz, L., Díaz-Montiel, L.A., Tarango-Arámbula, L.A., Quiroz-Robedo, L.N., Rosas-Mejía, M., Villalvazo-Palacios, M., Gómez-Lazaga, M., Cuautle, M., Aguilar-Méndez, M.J., Baena, M.L., Madora-Astudillo, M., Rocha-Ortega, M., Pale, M., García-Martínez, M.A., Soto-Cárdenas, M.A., Correa-Ramírez, M.M., Janda, M., Rojas, P., Torres-Ricario, R., Jones, R.W., Coates, R., Gómez-Acevedo, S.L., Ugalde-Lezama, S., Philpott, S., Joaqui, T., Marques, T., Zamora-Gutierrez, V., Martínez-Mandujano, V., Hajian-Forooshani, Z., MacGregor-Fors, I. (2020). Mexico ants: incidence and abundance along the Nearctic–Neotropical interface. *Ecology*, 101: e02944. <https://doi.org/10.1002/ecy.2944>

4) **Antoniuzzi, R.**, Garro, R.N., Dáttilo, W., Ribeiro, S.P., & Neves, F.S. (2019). Ant species richness and interactions in canopies of two distinct successional stages in a tropical dry forest. *The Science of Nature*, 106: 20. <https://doi.org/10.1007/s00114-019-1614-0>

3) Macedo-Reis, L.E., Leite, A.C., Guerra, T.J., **Antoniuzzi, R.**, & Neves, F.S. (2019). Suspended leaf litter in an understorey treelet as habitat extension for ground-dwelling ants in the Atlantic Forest, south-eastern Brazil. *Journal of Tropical Ecology*, 35: 247-250. <https://doi.org/10.1017/S0266467419000154>

2) Luna, P., Corro, E.J., Ahuatzin-Flores, D.A., **Antoniuzzi, R. L.**, Barrozo, N., Chavez-Gonzalez, E., Morales-Trejo, J.J. & Dattilo, W. (2017). The risk of use small matrices to measure specialization in host–parasite interaction networks: a comment to Rivera-García et al. (2016). *Parasitology*, 144: 1102-1106. <https://doi.org/10.1017/S0031182017000361>

1) Bornschein, M.R., Firkowski, C.R., Belmonte-Lopes, R., Corrêa, L., Ribeiro, L.F., Morato, S.A., **Antoniuzzi-Jr, R.L.**, Reinert, B.L., Meyer, A.L.S., Cini, F.A. & Pie, M.R. (2016). Geographical and altitudinal distribution of *Brachycephalus* (Anura: Brachycephalidae) endemic to the Brazilian Atlantic Rainforest. *PeerJ*, 4: e2490. <https://doi.org/10.7717/peerj.2490>

### Book Chapters

2) **Antoniuzzi, R.**, Dáttilo, W., & Rico-Gray, V. (2018). A useful guide of main indices and software used for ecological networks studies. In *Ecological Networks in the Tropics* (pp. 185-196). Springer, Cham. [https://doi.org/10.1007/978-3-319-68228-0\\_13](https://doi.org/10.1007/978-3-319-68228-0_13)

1) Silveira, F. A., Santos, A. J., Vidigal, T. H. D. A., Machado, A. B. M., Paprocki, H., Vaz-de-Melo, F. Z., Grossi, E. J., Ferreira, R. L., Kumagai, A. F., Fonseca, N. G., Castro, F. S., Gontijo, A. B., **Antoniuzzi-Junior, R. L.** & Ribeiro, S. P. (2009). Diversidade de invertebrados terrestres. In *Biota Minas: diagnóstico do conhecimento sobre a biodiversidade no Estado de Minas Gerais—subsídios ao Programa Biota Minas* (pp. 123-159) Fundação Biodiversitas, Belo Horizonte.

### Original Research – Submitted\*\*

1) R.G. Mendonça-Santos, **R. Antoniazzi**, F. Camarota, Y.T. Reis, A.B. Viana-Junior. Scattered trees as crucial elements in maintaining urban diversity: a case study with canopy ants in a biodiversity hotspot.

2) A.B. Viana-Junior, J.C. Pena, **R. Antoniazzi**, S.C. Schirmer, R.O. Brito, M.B. Martins. Evidence synthesis on use of artificial biological models in predation ecology and evolution studies: a research weaving protocol.

\*\*Studies 'in preparation' were omitted

## PEER REVIEWER

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- Acta Amazonica (2021)
- Acta Oecologica (2019)
- Arthropod-Plant Interactions (2022)
- Austral Ecology (2020, 2021)
- Basic and Applied Ecology (2021)
- Boletim do Museu Paraense Emílio Goeldi - Ciências Naturais (2022)
- Entomobrasilis (2017, 2020)
- Gigascience (2022)
- Insectes Sociaux (2021, 2021, 2022)
- Journal of Arid Environments (2019)
- Journal of Tropical Insect Science (2022, 2022)
- Oxford Univ. Press (Book Chapter) Effects of Climate Change on Insects (2022)
- PeerJ (2022)
- PlosOne (2022)
- Sociobiology (2017, 2022)

## UNDERGRADUATE AND GRADUATE STUDENT MENTORING

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### Undergraduate honor's project

- **2022 – 2022** – Marlys Baldwin, Forestry, Wildlife Management. Who are the guests that come into your backyard? Fall, 2022.
- **2022 – 2022** – Veda Allen, Forestry, Wildlife Management. Diel activity pattern of mammals worldwide. Spring, 2022.

### Committee Member

- **2023 – Present** – Camillo Florez-V, Ph.D. Student (College of Agricultural Sciences, Department of Entomology, Pennsylvania State University). Ant-Treehopper interactions. Advisor: Andrew R. Deans.
- **2022 – Present** – Gage Grantham, M.S. Student (Forestry, Stephen F. Austin State University, US). Effects of forest management practices on dynamics of small mammals and herpetology communities. Advisor: Dr. Jessica Glasscock.

- **2021 – Present** – Alejandra S. Martinez, M.S. Student (Forestry, Stephen F. Austin State University, US). Temporal changes of birds of South Texas. Advisor: Dr. Jessica Glasscock.

### **Thesis evaluation**

- **2022** – Juliana Kuchenbecker Belisário, Ph.D. defense (Universidade Federal de Minas Gerais, Brazil). Advisor: Frederico de Siqueira Neves.
- **2022** – Rayssa Roberta De Souza Saldanha, undergraduate student (Universidade da Amazônia, Brazil). Co-advisors: Danielly Torres Hashiguti de Freitas and Dr. Arleu Barbosa Viana Junior.
- **2022** – Renata dos Reis Brito, M.S. Student (Universidade Federal do Pará & Museu Paraense Emílio Goeldi). Advisor: Tereza Cristina Giannini.
- **2022** – Zeneide Damião da Silva, M.S. Student (Universidade Federal do Pará & Museu Paraense Emílio Goeldi). Advisor: Thiago Bernardi Vieira.
- **2021** – Fernando José König Clark, Ph.D. Student (Universidade Estadual da Paraíba, Brazil), Advisor: Dr. André Luiz Machado Pessanha.
- **2021** – Gitá Juan Soterorudá Brito, Ph.D. Student (Universidade Estadual da Paraíba, Brazil), Advisor: Dr. André Luiz Machado Pessanha.
- **2021** – Milton Montañó, Ph.D. Student (Universidade Federal de Viçosa, Brazil), Advisor: Dr. Eugênio Oliveira.
- **2021** – Temidayo John Soneye, Ph.D. Student (Universidade Federal de Viçosa, Brazil), Advisor: Dr. Eugênio Oliveira.
- **2021** – Luziene Seixas dos Santos, M.S. Student (Universidade Federal de Viçosa, Brazil), Advisor: Dr. Tatiana Garabini Cornelissen and Dr. Guilherme R. Demétrio Ferreira.
- **2021** – Rhayane Santos Terra, M.S. Student (Universidade Federal de Viçosa, Brazil), Advisor: Dr. José H. Schoederer.

### **PROFESSIONAL MEMBERSHIPS**

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- Texas Chapter of The Wildlife Society. Member, September 2022 – Current.
- The Wildlife Society. Member, May 2022 – current.
- Stephen F. Austin State University’s chapter of Ducks Unlimited. Co-advisor, February 2022 – current.
- Stephen F. Austin State University. Limited Membership on the Graduate Faculty of SFASU, August 25, 2021 - August 25, 2026.

### **MEETINGS**

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#### **Keynote speech**

2018. **Antoniuzzi, R.** ¿La organización de las interacciones es un reflejo de los patrones de diversidad a nivel de comunidades? In XIII Coloquio Estudiantil INECOL “Biodiversidad: Índices, Patrones y Aplicaciones”. Instituto de Ecología A.C. (INECOL), Xalapa, Veracruz, Mexico, October 3-4.

#### **Symposium**

2022. **Antoniuzzi, R.** Conservation status and monitoring plan for bumblebees and long-horn bees of East Texas. Symposium: Larsen-Gray, A. (organizer), Conservation of Native Pollinators in Managed Forested Ecosystems. In: 29<sup>th</sup>



Conference of The Wildlife Society Meeting. Spokane, Washington, US, November 6-10, 2022.

### **Round Table**

2019. **Antoniuzzi, R.** Exploring the ecology of arboreal ants in dry and wet tropical forests. Round-Table: Camarota, F. and Antoniazzi, R. (organizers), Philpott, S. and Leponce, M. (invited speakers). Towards a synthesis of arboreal ant ecological research in the tropics. In: XXIV Simpósio de Mirmecologia – An International Ant Meeting. Belo Horizonte, Minas Gerais, Brazil, September 30 to October 4 2019.

2015. Neves, F.S. & **Antoniuzzi-Junior, R.L.** Spatio-temporal patterns and mechanisms that determine arboreal ants and ant-tree networks in a tropical dry forest. Round-Table: Neves, F.S. (Coordinator), Ribeiro, S.P., DaRocha, W.D., Leponce, M. Canopy ants in the Neotropical region. In: XXII Simpósio de Mirmecologia – An international ant meeting. Ilhéus, Bahia, Brazil, Octubre 18-22 2015.

### **Oral Presentations**

2019. **Antoniuzzi, R.**, Viana-Jr., A., Pelayo-Martínez, J., Ortiz-Lozada, L., Neves, F.S., Leponce, M. & Dáttilo, W. Distance-decay of compositional similarity in ground but not in canopy ant assemblages in a tropical rainforest. In XXIV Simpósio de Mirmecologia – An International Ant Meeting. Belo Horizonte, Minas Gerais, Brazil, September 30 to October 4.

2019. **Antoniuzzi, R.**, García-Franco, J., Janda, M., Leponce, M., Dáttilo, W. La estructura de las redes de co-ocurrencia de hormigas y plantas son similares en el dosel y el sotobosque. In IV Reunión Formicidae de México. Instituto de Ecología A.C. (INECOL), Xalapa, Veracruz, Mexico, June 10-11.

2013. **Antoniuzzi, R.** Padrões e mecanismos que determinam a distribuição espaço-temporal de formigas no Parque Estadual da Mata Seca. In Ecologia de Florestas Tropicais Secas. Universidade Estadual de Montes Claros (Unimontes), Montes Claros, Minas Gerais, Brazil, September 10-14.

### **Poster presentations**

2022. Bilyeu, E., Perrin, K., **Antoniuzzi, R.**, Bennett, D.J., Kulhavy, D.L. Bumble Bees of East Texas, with a Consideration of Novel Techniques to Preserve Large Samples. In Stephen F. Austin State University Arthur Temple College of Forestry and Agriculture Undergraduate Research Showcase, Nacogdoches, Texas, US, November 2022.

2022. Bilyeu, E., Perrin, K., **Antoniuzzi, R.**, Bennett, D.J., Kulhavy, D.L. Bumble Bees of East Texas, with a Consideration of Novel Techniques to Preserve Large Samples. In Stephen F. Austin State University College of Sciences and Mathematics Undergraduate Research Showcase, Nacogdoches, Texas, US, November 10, 2022.

2022. Martinez, A., Glasscock, J.L., **Antoniuzzi, R.**, Schalk, C., Glasscock, S. Avian Community Dynamics within a Riparian Corridor: A 12 Year Perspective. In Texas Chapter of The Wildlife Society Annual Meeting, Horseshoe Bay, Texas, US, February 2022.

2021. Martinez, A., Glasscock, J.L., Schalk, C., **Antoniuzzi, R.** Avian Community Dynamics within a Riparian Corridor: A 12 Year Perspective. In Stephen F. Austin

State University Arthur Temple College of Forestry and Agriculture Undergraduate Research Showcase, Nacogdoches, Texas, US, December 2021.

2019. Joaqui, T., **Antoniuzzi, R.** & Escobar, F. Distribution of ants in an elevational gradient in Mexico and its relationships with temperature. In XXIV Simpósio de Mirmecologia – An International Ant Meeting. Belo Horizonte, Minas Gerais, Brazil, September 30 to October 4.

2019. Santos, R.G.M., **Antoniuzzi, R.**, Camarota, F., Reis, Y.T. & Viana-Jr., A. Diurnal-nocturnal structure of ant-tree co-occurrence networks in an urban area. In XXIV Simpósio de Mirmecologia – An International Ant Meeting. Belo Horizonte, Minas Gerais, Brazil, September 30 to October 4.

2019. Santos, R.S., Viana-Junior, A.B., **Antoniuzzi, R.** & Souto, L.S. Investigations of ant nest on soil fertility and plant development: A scientiometric approach. In XXIV Simpósio de Mirmecologia – An International Ant Meeting. Belo Horizonte, Minas Gerais, Brazil, September 30 to October 4.

2017. Dáttilo, W., Ahuatzin Flores, D.A., Corro-Méndez, E. J., **Antoniuzzi-Jr., R.L.** Diversidad ecológica, funcional y de interacciones ecológicas involucrando las hormigas dentro de paisajes tropicales altamente perturbados. In 50 aniversario de la Estación de Biología Tropical Los Tuxtles. Universidad Autónoma de Mexico, Ciudad de Mexico, Mexico, November 14-15.

2015. **Antoniuzzi-Junior, R.L.**, Ribeiro, S.P. & Neves, F.S. Tree height determines the distribution of ants in the tropical dry forest canopy: The case of arboreal ant distribution. In XXII Simpósio de Mirmecologia – An international ant meeting. Ilhéus, Bahia, Brazil, Octubre 18-22.

2014. Campos, R.B.F., Neves, F.S., **Antoniuzzi-Jr, R.L.**, Ribeiro, S.P. Ants in the tropical seasonal forest canopies. In II International Symposium of Ecology and Evolution (EcoEvol). Universidade Federal de Viçosa, Minas Gerais, Brazil, November 16-19.

2013. **Antoniuzzi-Jr, R.L.**, Campos, Renata B.F., Ribeiro, S.P. Disturbance as determinant of arboreal ant (Hymenoptera: Formicidae) richness, composition and stratification in montane tropical forest areas. In XXI Simpósio de Mirmecologia – An international meeting. Fortaleza, Ceará, Brazil, December 1-5.

2013. Pacelhe, F.T., **Antoniuzzi-Junior, R.L.**, Batista, L.M., Neves, F.S. Spatial-temporal dynamics of litter-dwelling ants (Hymenoptera, Formicidae) in a tropical dry forest (TDF). In XXI Simpósio de Mirmecologia – An international meeting. Fortaleza, Ceará, Brazil, December 1-5.

2013. **Antoniuzzi-Junior, R.L.**, Campos, R.B.F., Ribeiro, S.P. Formigas arbóreas em áreas de floresta montana sob diferentes níveis de impacto. In XI Congresso de Ecologia – I Congresso Internacional de Ecologia. Porto Seguro, Bahia, Brazil, September 15-19.

2011. **Antoniuzzi-Junior, R.L.**, Leite, A., Lima, F.P., Fagundes, R., Barbosa, N., Ribeiro, S.P. Composição de assembléias de formigas e estruturação de mosaicos de formigas em dossel de floresta montana. In XIX Seminário de Iniciação Científica da UFOP. Universidade Federal de Ouro Preto, Ouro Preto, Minas Gerais, Brazil, November 9-11.

2011. Silva, P.B.G., **Antoniuzzi-Junior, R.L.**, Leite, A., Lima, F.P., Fagundes, R., Barbosa, N., Ribeiro, S.P. Composição de assembléias de formigas e configuração de mosaicos de formigas em dossel de floresta montana. In X Congresso de

Ecologia e I Simpósio de Sustentabilidade. São Lourenço, Minas Gerais, Brazil, September 16-22.

2009. **Antoniuzzi-Junior, R.L.**, Espírito-Santo, N.B., R.B.F., Ribeiro, S.P. Composição de assembléias de formigas e estruturação de mosaicos em dossel de uma floresta montana. In XVII Seminário de Iniciação Científica da UFOP. Ouro Preto, Minas Gerais, Brazil, November 4-6.

### Meeting organization

2009. Ribeiro, S.P., Delabie, J.H.C., Santos, J.F.L., Espírito-Santo, N.B., **Antoniuzzi-Júnior, R.L.** XIX Simpósio de Mirmecologia – I Simpósio Franco-Brasileiro de Mirmecologia. Ouro Preto, Minas Gerais, Brazil, November 17-21.

2008. Pedrosa, M., **Antoniuzzi-Júnior, R.L.** III Semana de Biologia da UFOP – Saúde Pública: Prevenir a doença e promover a saúde mobilizando a comunidade. Ouro Preto, Minas Gerais, Brazil, May 13-17.

### Poster referee

2022. Stephen F. Austin State University Graduate Research Conference. Stephen F. Austin State University, Nacogdoches, Texas, US, April 21.

2015. III FEBRAT – Feira de Colégios de Aplicação e Escolas Técnicas. Escola de Educação Básica e Profissional da Universidade Federal de Minas Gerais (CP-EBAP-UFMG), October 26-28.

### Meeting Attended

2014. Simpósio Internacional de Ecologia e Conservação. Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, Brazil, August 25-27.

2013. Simpósio de Zoologia Sistemática. Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, Brazil, December 16-20.

2012. Debatendo os Projetos em Mudanças Climáticas e Poluição Ambiental. Universidade Federal de Ouro Preto, October 5.

2011. International Symposium in Modelling of Terrestrial Systems and Evolution. Ouro Preto, Minas Gerais, Brazil, May 10-13.

## OUTREACH AND COMMUNITY INVOLVEMENT

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- **2021** – Grupo de estudio de hormigas neotropicales, Colombia. Invited talk, title: "De aquí para allá: La distribución espacio-temporal de las hormigas del sotobosque y dosel en bosques tropicales de Brasil, México y Colombia." <https://youtu.be/UKNFpVuEez0>
- **2021** – Pinewoods Audubon Society, Texas, US. Invited talk, title: "Life on the treetops of some Brazilian and Mexican forests".
- **2019** – *Casa abierta Instituto de Ecología, INECOL*. Playful activities for the general public (Xalapa and surroundings). We teach about ecological interactions between organisms, using didactic activities.
- **2018** – Promotion of scientific and technological careers for children and the young (*Fomento INECOL*). Developed project: *Santa pero no a salvo: El estrés ambiental en la hoja santa (Piper auritum)* with Aimée Itzel Moreno Morales.

- **2017** – Promotion of scientific and technological career for children and the young (*Fomento INECOL*). Developed project: *Las bromélias como estanques llenos de vida: ¿Quiénes viven en ellas?* with José Emiliano Higareda Lagunes.
- **2017** – *Casa abierta Instituto de Ecología, INECOL*. Playful activities for the general public (Xalapa and surroundings). We taught about ecological interactions between organisms, using didactic activities.
- **2008-2009** – Vice-president of the Academic Directory of Biological Sciences Courses Bachelor's Degree – “DABio Prof. Gilberto Pedralli” (UFOP) for two consecutive years.
- **2007** – Volunteer in a garden project in the Associação de Pais e Amigos dos Excepcionais (Apae), Brazilian institution that assists people with intellectual or multiple disability, Ouro Preto, Minas Gerais, Brazil.

## TRAINING AND CERTIFICATION

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- **2018** - Rarefacción, particionamiento de diversidad, y diversidad filogenética: cómo implementar e interpretarlos (4 hours) – instructor: Lou Jost. Workshop in XIII Coloquio Estudiantil INECOL “Biodiversidad: Índices, Patrones y Aplicaciones”. Instituto de Ecología A.C. (INECOL), Xalapa, Veracruz, Mexico, October 3-4.
- **2018** - Atractores de punto medio y riqueza de especies: modelando la interacción de agentes ambientales y restricciones geométricas (4 hours) – instructor: Robert Colwell. Workshop in XIII Coloquio Estudiantil INECOL “Biodiversidad: Índices, Patrones y Aplicaciones”. Instituto de Ecología A.C. (INECOL), Xalapa, Veracruz, Mexico, October 3-4.
- **2010** - Interações planta-polinizador: de Charles Darwin às redes complexas. (8 hours). Workshop in IV Semana da Biologia UFOP – Evolução: cultura, integração e aplicabilidade. Ouro Preto, Minas Gerais, Brazil, May 17-20.
- **2010** - Ensino de Ciências por Problema-Experiência LMDM. (3 hours). Workshop in I Encontro Regional de Educação em Ciências e Biologia da Universidade Federal de Ouro Preto. Ouro Preto, Minas Gerais, Brazil, November 25-27.
- **2008** - Plantas medicinais: Usos, cultivo, identificação (7 hours). Workshop in III Semana de Biologia da UFOP – Saúde Pública: Prevenir a doença e promover a saúde mobilizando a comunidade. Ouro Preto, Minas Gerais, Brazil, May 13-17.
- **2007** - Técnicas para elaboração de coleção (4 hours). Workshop in XVIII Simpósio de Mirmecologia. São Paulo, São Paulo, Brazil, November 25-29.

## HONORS AND AWARDS

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- **2021** – 2nd Place Poster Presentation, 2021 ATCOFA Undergraduate Research Showcase, Stephen F. Austin State University, US.
- **2017** – 2nd Place Poster Presentation, 50 aniversario de la Estación de Biología Tropical Los Tuxtlas, Universidad Autónoma de México, Mexico.

- **2012** – Parainfo of the last year of high school class of Colégio Sinapse – Sistema Anglo de Ensino, Brazil.

## **FIELDWORK**

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Tropical, Subtropical, and Temperate environments: mountains, tropical and temperate savannah, tropical rain forest, tropical cloud forest, tropical dry forest, temperate forest, temperate savannah, hardwood-pine forest; Brazil, Mexico, and the United States of America.

## **SKILLS**

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**Analytical:** Performance of statistical analysis using R software. Great and varied skills in quantitative ecology. Diversity index, network analysis, multivariate statistics, frequentist, modeling, spatial statistics, and many others; e.g., applied to species interactions, community ecology.

**Field:** Good abilities for experimental design and fieldwork logistics. Advanced skills in tree climbing since 2007 using single rope technique.

**Laboratory:** Insect taxonomy, mounting, and preservation (especially ants).