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Assistant Research Scientist
Department of Entomology
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EDUCATION

Graduate Studies

- 2012 **PhD** in Biology - **South Dakota State University (SDSU)**. “Tropical forest fires and biodiversity: Dung beetles as indicators of animal and plant community changes in the Brazilian Amazon”
- 2007 **MSc** in Ecology - **Universidade Estadual de Campinas (Campinas State University)** - Brazil. “Feeding behavior of *Sciurus ingrami* (Rodentia: Sciuridae)”

Undergraduate Studies

- 2003 **Bachelors** in Biological Sciences. **Universidade Estadual de Campinas (Campinas State University)** - Brazil

PROFESSIONAL EXPERIENCE

- 2018 Adjunct Faculty - **The American University of Rome** - Rome, Italy.
- 2016 - 2018 Postdoctoral Associate - Dipartimento di Biologia Ambientale, **Sapienza Università di Roma** - Rome, Italy.
- 2014 - 2016 Postdoctoral associate - Geography Department, **University of Colorado** - Boulder, U.S.A.
- 2013 - 2014 Postdoctoral associate - Departamento de Biologia Animal, **Universidade Estadual de Campinas (Campinas State University)** - Brazil.

SCIENTIFIC PRODUCTION

Publications

- de Andrade RB, K Abell, JJ Duan, P Shrewsbury, DS Gruner. 2020. Protective neighboring effect from ash trees treated with systemic insecticide against emerald ash borer. **Pest Management Science**: Early view.
- Cury RT, JK Balch, PM Brando, **RB de Andrade**, RP Scervino, JMD Torezan. 2020. Higher fire frequency impaired woody species regeneration in a south-eastern Amazonian forest. **Journal of Tropical Ecology**: Early view.
- Sabatini FM, **RB de Andrade**, Y Paillet, P Ódor, C Bouget, T Campagnaro, F Gosselin, P Janssen, W Mattioli, J Nascimbene, T Sitzia, T Kuemmerle, S Burrascano. 2019. Trade-offs between carbon stocks and biodiversity in European temperate forests. **Global change biology** 25: 536-548.
- Burrascano S, **RB de Andrade**, Y Paillet, P Ódor, G Antonini, C Bouget, T Campagnaro, F Gosselin, P Janssen, AM Persiani, J Nascimbene, FM Sabatini, T Sitzia, C Blasi. 2018. Congruence across taxa and spatial scales: are we asking too much of species data? **Global Ecology and Biogeography** 27: 980-990.
- de Andrade RB, JK Balch, AL Parsons, D Armenteras, RM Roman-Cuesta, J Bulkan. 2017. Scenarios in tropical forest degradation: carbon stock trajectories for REDD+. **Carbon Balance and Management** 12: 6.
- de Andrade RB, JK Balch, JYO Carreira, PM Brando, AVL Freitas. 2017. The impacts of recurrent fires on diversity of fruit-feeding butterflies in a southeastern Amazon forest. **Journal of Tropical Ecology** 33: 22-32.
- Silveira JM, J Louzada, J Barlow, **RB de Andrade**, L Mestre, R Solar, S Lacau, MA Cochrane. 2015. A multi-taxa assessment of biodiversity change after single and recurrent wildfires in a Brazilian Amazon forest. **Biotropica** 48: 170-180.
- Parsons AL, JK Balch, **RB de Andrade**, PM Brando. 2015. The role of leaf traits in determining litter flammability of southeastern Amazon tree species. **International Journal of Wildland Fire** 24: 1143-1153. <http://dx.doi.org/10.1071/WF14182>
- de Andrade RB, J Barlow, J Louzada, FZ Vaz-de-Mello, JM Silveira, MA Cochrane. 2014. Tropical forest fires and biodiversity: dung beetle community and biomass responses in a northern Brazilian Amazon forest. **Journal of Insect Conservation** 18: 1097-1104.
- de Andrade RB, J Barlow, J Louzada, L Mestre, JM Silveira, FZ Vaz-de-Mello, MA Cochrane. 2014. Biotic congruence in humid tropical forests: a multi-taxa examination of spatial distribution and responses to forest disturbance. **Ecological Indicators** 36: 572-581.
- de Andrade RB & P Brumatti. 2013. Feeding association between cattle tyrant (*Machetornis rixosus*, Tyrannidae) and capybara (*Hydrochoerus hydrochaeris*, Rodentia). **Lundiana** 11: 85-86.
- Silveira JM, J Barlow, **RB de Andrade**, J Louzada, LA Mestre, S Lacau, R Zanetti, I Numata, MA Cochrane. 2012. The responses of leaf litter ant communities to wildfires in the Brazilian Amazon: a multi-region assessment. **Biodiversity and Conservation** 22: 513-529.

- Silveira JM, J Barlow, **RB de Andrade**, LA Mestre, S Lacau, MA Cochrane. **2012**. Responses of leaf-litter ant communities to tropical forest wildfires vary with season. **Journal of Tropical Ecology** 28 (5): 515-518.
- Barlow J, GC D'Andrea, JM Silveira, LA Mestre, **RB de Andrade**, J Louzada, FZ Vaz-de-Mello, I Numata, S Lacau, MA Cochrane. **2012**. Wildfires in bamboo-dominated Amazonian forest: impacts on above-ground biomass and biodiversity. **PLoS ONE** 7(3): e33373. doi:10.1371/journal.pone.0033373.
- de Andrade RB**, J Barlow, J Louzada, FZ Vaz-de-Mello, M Souza, JM Silveira, MA Cochrane. **2011**. Quantifying responses of dung beetles to fire disturbance in tropical forests: the importance of trapping method and seasonality. **PLoS ONE** 6(10): e26208. doi:10.1371/journal.pone.0026208.
- de Andrade RB**, AVL Freitas. **2005**. Population biology of two species of *Heliconius* (Nymphalidae: Heliconiinae) in a semi-deciduous forest in Southeastern Brazil. **Journal of the Lepidopterists' Society of London** 59: 223-227.

Posters and Presentations in Scientific Conferences

- Nascimbene J, D Spitale, C Lelli, **RB de Andrade**, Yoan Paillet, P Odor, C Bouget, T Campagnaro, F Gosselin, P Janssen, Tommaso Sitzia, S Burrascano. **2018**. Distance decay of compositional similarity in multiple taxa across a large latitudinal gradient in European beech forests. **11th International Beech Symposium, IUFRO, Viterbo, Italy.**
- Sabatini FM, **RB de Andrade**, Y Paillet, P Odor, T Campagnaro, C Bouget, F Gosselin, P Janssen, W Mattioli, J Nascimbene, T Sitzia, T Kuemmerle, S Burrascano. **2018**. Maximising carbon stock and multi-taxon diversity in European temperate forests: can we fill two needs with one deed? **5th European Congress of Conservation Biology, Jyväskylä, Finland.**
- de Andrade RB**, S Burrascano S, Y Paillet, et al. **2017**. Vascular plants as indicators of species diversity in European temperate forests: Are they effective for multiple taxa at multiple scales? Oral presentation at the **60th IAVS Annual Symposium, Palermo, Italy.**
- Cury R, MR Torezan, JK Balch, PM Brando, **RB de Andrade**, R Scervino. **2015**. Frequent fire effects on regenerating plant species diversity in a transitional forest of southeastern Amazonia, Brazil. Poster presentation at the **52nd Annual Meeting of the Association for Tropical Biology, Honolulu, HA, United States.**
- de Andrade RB**, JK Balch, JY Carreira, AVL Freitas. **2014**. Increasing fire frequency effects on fruit-feeding butterfly communities of Southeastern Amazon forests. Contributed Talk at the **99th Annual Ecological Society of America Meeting, Sacramento, CA, United States.**
- de Andrade RB**, J Barlow, J Louzada, FZ Vaz-de-Mello, L Mestre, JM Silveira, MA Cochrane. **2012**. Congruence in bioindicator taxa and richness estimates: A study on biodiversity responses to fire disturbance in the Brazilian Amazon. Oral presentation at the **49th Annual Meeting of the Association for Tropical Biology, Bonito, Brazil.**

de **Andrade RB**, J Vasconcellos-Neto. 2006. Efficiency and learning of opening forms of *Syagrus romanzoffiana* (Palmae) fruits by *Sciurus ingrami* (Rodentia: Sciuridae). **I Congresso Sul-Americano de Mastozoologia. Gramado, Brazil.**

de **Andrade RB**, AVL Freitas. 2003. Biologia populacional de duas borboletas do gênero *Heliconius*. **Congresso Interno de Iniciação Científica da Unicamp. Campinas, Brazil.**

TEACHING EXPERIENCE

- 2020 Instructor of ENTM788C - Entomological Topics: Colloquium at **University of Maryland**, College Park, U.S.A.
- 2018 Instructor (Adjunct Faculty) of ENV103 - Environmental Science and ENV102 - Physical Geography at **The American University of Rome**, Rome, Italy.
- 2016 Instructor (Post-Doctoral appointment) of GEOG-1001 - Climate and Vegetation at **University of Colorado - Boulder**, Boulder, U.S.A.
- 2015 Co-instructor (Post-Doctoral appointment) of GEOG-4120 - Global Change Ecology at **University of Colorado - Boulder**, Boulder, U.S.A.
- 2013 Instructor (Post-Doctoral appointment) of Introduction to Biodiversity Studies at **Universidade Estadual de Campinas**, Campinas, Brazil.
- 2012 Teaching assistantship for Laboratory Sessions of BIOL-103 - Biology Survey at **South Dakota State University**, Brookings, U.S.A.
- 2006 Teaching assistant to Carlos A. Joly, in Introduction to Ecology course (Introdução a Ecologia BE180) to 1st year undergraduate students of Biological Sciences at **Universidade Estadual de Campinas**, Campinas, Brazil.
- 2005 Teaching assistant to Professor Wesley R. Silva, in Introduction to Ecology course (Introdução a Ecologia BE180) to 1st year undergraduate students of Biological Sciences at **Universidade Estadual de Campinas**, Campinas, Brazil.
- 2002 - 2006 Teaching assistant to Professor Paulo S. Oliveira, in Basic Ecology course (Ecologia Básica BE380) to 2nd year undergraduate students of Biological Sciences at **Universidade Estadual de Campinas**, Campinas, Brazil.
- 2000 - 2005 Teaching assistant to Thiago Andrade, in Survival at Sea for Flight Attendants, at **Edapa Flight School**, Campinas, São Paulo.

Guest Lectures

- 2019 **University of Maryland**, Department of Entomology Friday Colloquium Series: “Fires and Insect Diversity in the Brazilian Amazon”.
- 2018 **Sapienza Università di Roma**: “Fire Ecology”.
- 2017 **Sapienza Università di Roma**: “Global Change and Biodiversity”.
- 2016 **IRSTEA (Institut National de Recherche en Sciences et Technologies pour L’environnement et L’agriculture)**: “Fire and Biodiversity in The Amazon”.
- 2015 **University of Colorado - Boulder**. Environmental Systems 1 - Climate and Vegetation course (GEOG 1001): “Tropical Biodiversity and Anthropogenic Disturbances”.
- 2014 **Universidade Estadual de Campinas**, Brazil. Tópicos em Biologia Animal I (BA001): “Análise de Dados em Biodiversidade”.
- 2013 **Universidade Estadual de Campinas**, Brazil. Biofórum: “Incêndios em florestas tropicais: Impactos na Biodiversidade da Amazônia brasileira”.
- 2011 **South Dakota State University**. Ecology & Environmental Biology seminar: “Consistent Loss of Large Beetle Species Following Forest Fires in the Brazilian Amazon”.

COMMUNITY AND MEDIA OUTREACH

Blog website teaching data management and visualization in R for Portuguese speakers - "Dados Brutos" ("Raw Data") - <https://dadosbrutos.wordpress.com>

Science On Tap – "Dung Beetles and Butterflies Highlight the Consequences of Amazon Rainforest Fires" talk and discussion (<https://cmns.umd.edu/news-events/features/4522>). December 2019, College Park, MD.

Volunteer at the “Insect Petting Zoo” event at University of Maryland - April 27th, 2019, College Park, MD.

Guest at the AUR Wolfcast podcast, discussing on climate change. url: <https://soundcloud.com/user-730028885/the-aur-wolfcast-ep-4-howl-the-world-end>. March 2018. Rome, Italy.

Volunteer “Moth Mania” kids event at the Museum of Natural History, University of Colorado - Boulder, September 2015, Boulder, CO.

Interview in The Brookings Register newspaper, “Rocker: Studying Rain Forest”. February 6th, 2012, Brookings, SD.

FUNDING PROPOSALS

- 2019 - 2020 USDA Farm Bill. "Synergies of biological control and systemic insecticides to protect ash from emerald ash borer".
- 2015 - 2016 SilvaCarbon (USGS). "Scenarios in tropical forest degradation: carbon stock trajectories for REDD+"
- 2014 - 2015 Post-Doctoral Research Assistantship (BEPE) - FAPESP (Fundação de Amparo à Pesquisa do Estado de São Paulo), at Pennsylvania State University, State College, PA and University of Colorado, Boulder, CO.
- 2013 - 2015 Post-Doctoral Research Assistantship - FAPESP (Fundação de Amparo à Pesquisa do Estado de São Paulo), at Universidade Estadual de Campinas, São Paulo, Brazil.
- 2004 - 2006 MSc Research Assistantship - CAPES (Coordenação de Aperfeiçoamento de Pessoal de Nível Superior / Coordination of Improvement of Higher Education Personnel).
- 2002 - 2003 Undergraduate Research Assistantship – PIBIC (Programa Institucional de Bolsas de Iniciação Científica / Institutional Program for Undergraduate Research Assistantships), Universidade Estadual de Campinas, Campinas, Brazil.

QUALIFICATIONS

Languages

Portuguese, English, Italian, Spanish.

Skills

Programming, statistical analysis (multivariate analysis, GLMM, SEM, etc.), data management and visualization in R.

Remote sensing and GIS analysis in QGIS and R.

American Red Cross First Aid, CPR and AED Certification.