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Engineering & Scientific Consulting

## Rodolfo Jaffé, Ph.D.

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### Professional Profile

Dr. Jaffé is a quantitative ecologist with more than ten years of research experience. He relies on interdisciplinary approaches, comprising ecological modelling, landscape ecology, and genomics, to assess how the alteration of natural habitats influences biodiversity and the provision of ecosystem services. Dr. Jaffé has experience implementing the mitigation hierarchy (avoid, minimize, rectify, and compensate) to manage business impacts to biodiversity and ecosystem services, and has directed studies aimed at evaluating extinction risks, assessing anthropogenic impacts on biodiversity, designing actions to recover degraded ecosystems, and identifying appropriate compensatory measures. He also has extensive experience working with data analytics and visualizations, big and messy datasets, spatial analyses and GIS, modeling, statistics, forecasting, and machine learning. Dr. Jaffé has worked in academic institutions from South America, Europe, Australia and the US, NGOs, and a major mining company. He has published more than 60 peer-reviewed articles and serves as Academic Editor for the journals PeerJ and Ecological Applications.

### Academic Credentials & Professional Honors

Ph.D., Biology, Martin Luther University, 2009

M.S., Molecular Ecology, Martin Luther University, 2006

B.S., Biology, Simón Bolívar University, 2004

NASA-MSU Professional Enhancement Award (USA), 2019.

Affiliate Member of the Brazilian Academy of Science (Brazil), 2018.

Research Productivity Grant, National Council for Scientific and Technological Development (Brazil), 2018.

### Prior Experience

Associate Researcher, Vale Institute of Technology – Vale S.A., Brazil, 2015-2021.

Visiting Scientists, Department of Wildlife Ecology and Conservation, University of Florida, USA, 2020.

Affiliate Faculty, Department of Ecology, University of São Paulo, Brazil, 2016-2021.

Affiliate Faculty, Department of Ecology, Federal University of Pará, Brazil, 2016-2018.

Postdoctoral Research Associate, Department of Ecology, University of São Paulo, Brazil, 2012-2015.

Visiting Postdoctoral Research Fellow, Department of Integrative Biology, University of Texas at Austin, USA, 2014.

Postdoctoral Research Associate, Centre for Evolutionary Biology and Centre for Integrative for Bee Research, University of Western Australia, Australia, 2009-2011.

Research Associate, Molecular Ecology Research Group, Martin Luther University, Germany, 2006-2009.

## Professional Affiliations

Ecological Society of America (ESA)

International Association for Landscape Ecology - North America (IALE-NA)

## Languages

Spanish

Portuguese

## Publications

### Peer-reviewed articles

Jaffé R, Nunes S, Santos JF, Gastauer M, Giannini TC, Nascimento W, Sales M, Souza CM, Souza-Filho PW, Fletcher RJ (2021) Forecasting deforestation in the Brazilian Amazon to prioritize conservation efforts. *Environmental Research Letters*, 16 084034.

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Alvarado-Montero S, Boesing AL, Metzger JP, Jaffé R (2021) Higher forest cover and less-contrasting matrices improve carrion removal service by scavenger insects in tropical landscapes. *Journal of Applied Ecology*, early view: <https://doi.org/10.1111/1365-2664.13991>

Oliveira RC, Contrera FAL, Arruda H, Jaffé R, Costa L, Pessin G, Venturieri GC, de Souza P and Imperatriz-Fonseca VL (2021) Foraging and Drifting Patterns of the Highly Eusocial Neotropical Stingless Bee *Melipona fasciculata* Assessed by Radio-Frequency Identification Tags. *Frontiers in Ecology and Evolution*, 9:708178. doi: 10.3389/fevo.2021.708178

Dalapicolla J, Alves R, Jaffé R, Vasconcelos S, Pires ES, Nunes GL, Pereira JBS, Guimarães JTF, Dias MC, Fernandes TN, Scherer D, Santos FMG, Castilho A, Santos MP, ENC, Martins RL, Fonseca RN, Esteves FA, Caldeira CF, Oliveira G (2021) Conservation implications of genetic structure in the narrowest endemic quillwort from the Eastern Amazon. *Ecology and Evolution*, 00, 1– 14. <http://doi.org/10.1002/ece3.7812>

Miranda LdS, Awade M, Jaffé R, Costa WF, Trevelin LC, Borges RC, et al. (2021) Combining connectivity and species distribution modeling to define conservation and restoration priorities for multi-ple species: A case study in the eastern Amazon. *Biological Conservation*, 257: 109148.

Gastauer M, Mitre SK, Carvalho CS, Trevelin LC, Sarmento PSM, Meira JAA, Caldeira CF, Ramos SJ, Jaffé R (2020) Landscape heterogeneity and habitat amount drive plant diversity in Amazonian canga ecosystems. *Landscape Ecology*, <https://doi.org/10.1007/s10980-020-01151-0>.

Jaffé R (2020) QUALIS: The journal ranking system undermining the impact of Brazilian science. *Anais da Academia Brasileira de Ciências*, 92(3): e20201116.

Koffler S, Hoppe A, Bienefeld K, Kleinert AMP, Jaffé R (2020) Long-term storage shapes ejaculate traits in a monogamous stingless bee (*Scaptotrigona aff. depilis*). *Apidologie*: <https://doi.org/10.1007/s13592-020-00813-x>

Hoban S, Bruford M, D'Urban Jackson J, Lopes-Fernandes M, Heuertz M, Hohenlohe PA, Paz-Vinas I, Sjögren-Gulve P, Segelbacher G, Vernesi C, Aitken S, Bertola LD, Bloomer P, Breed M, Rodríguez-Correa H, Funk WC, Grueber CE, Hunter ME, Jaffé R, Liggins L, Mergeay J, Moharrek F, O'Brien D, Ogden R, Palma-Silva C, Pierson J, Ramakrishnan U, Simo-Droissart M, Tani N, Waits L, Laikre L (2020) Genetic diversity targets and indicators in the CBD post-2020 Global Biodiversity Framework must be improved. *Biological Conservation* 248:108654.

González-Chaves A, Jaffé R, Metzger JP, de M. P. Kleinert A (2020) Forest proximity rather than local forest cover affects bee diversity and coffee pollination services. *Landscape Ecology*, [10.1007/s10980-020-01061-1](https://doi.org/10.1007/s10980-020-01061-1).

Carvalho CS, Forester BR, Mitre SK, Alves R, Imperatriz-Fonseca VL, Ramos SJ, Resende-Moreira LC, Siqueira JO, Trevelin LC, Caldeira CF, Gastauer M, Jaffé R (2020) Combining genotype, phenotype, and environmental data to delineate site-adjusted provenance strategies for ecological restoration. *Molecular Ecology Resources*, [doi:10.1111/1755-0998.13191](https://doi.org/10.1111/1755-0998.13191)

Silva A, Resende-Moreira L, Carvalho CS, Lanes E, Ortiz-Vera M, Viana PL, Jaffé R (2020) Range-wide neutral and adaptive genetic structure of an endemic herb from Amazonian Savannas. *AoB PLANTS*, 12(1): plaa003.

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Coscieme L, da Silva Hyldmo H, Fernández-Llamazares Á, Palomo I, Mwampamba TH, Selomane O, Sitas N, Jaureguiberry P, Takahashi Y, Lim M, Barral MP, Farinaci JS, Diaz-José J, Ghosh S, Ojino J, Alassaf A, Baatuuwie BN, Balint L, Basher Z, Boeraeve F, Budiharta S, Chen R, Desrousseaux M, Dowo G, Febria C, Ghazi H, Harmáčková Z V, Jaffé R, Kalemba MM, Lambini CK, Lasmana FPS, Mohamed AAA, Niamir A, Pliscoff P, Sabyrbekov R, Shrestha UB, Samakov A, Sidorovich AA, Thompson L, Valle M (2020) Multiple conceptualizations of nature are key to inclusivity and legitimacy in global environmental governance. *Environmental Science & Policy*, 104:36–42. [doi: 10.1016/j.envsci.2019.10.018](https://doi.org/10.1016/j.envsci.2019.10.018)

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Hipólito J, Sousa B dos SB, Borges RC, Brito RM de, Jaffé R, Dias S, Imperatriz Fonseca VL, Giannini TC (2019) Valuing nature's contribution to people: The pollination services provided by two protected areas in Brazil. *Global Ecology and Conservation* 20:e00782. DOI: <https://doi.org/10.1016/j.gecco.2019.e00782>.

Jaffé R, Veiga JC, Pope NS, Lanes ÉCM, Carvalho CS, Alves R, Andrade SCS, Arias MC, Bonatti V,

Carvalho AT, de Castro MS, Contrera FAL, Francoy TM, Freitas BM, Giannini TC, Hrcir M, Martins CF, Oliveira G, Saraiva AM, Souza BA, Imperatriz- Fonseca VL (2019) Landscape genomics to the rescue of a tropical bee threatened by habitat loss and climate change. *Evolutionary Applications* 0:eva.12794. DOI: 10.1111/eva.12794.

Monteiro WP, Veiga JC, Silva AR, Carvalho CS, Lanes ECM, Rico Y, Jaffé R (2019) Everything you always wanted to know about gene flow in tropical landscapes (but were afraid to ask). *PeerJ* 7:e6446.

Trevelin LC, Gastauer M, Prous X, Nicácio G, Zampaulo R, Brandi I, Oliveira G, Siqueira JO, Jaffé R (2019) Biodiversity surrogates in Amazonian iron cave ecosystems. *Ecological Indicators*, 101: 813-820.

Souza-Filho PW, Giannini TC, Jaffé R, Giulietti AM, Santos DC, Nascimento WR, Guimarães JTF, Costa MF, Imperatriz-Fonseca VL, Siqueira JO (2019) Mapping and quantification of ferruginous outcrop savanna in the Brazilian Amazon: a challenge for biodiversity conservation. *PloSOne* 14(1): e0211095.

Ortiz-Vera MP, Olchanheski LR, da Silva EG, de Lima FR, Martinez LRP, Sato MIZ, Jaffé R, Alves R, Ichiwaki S, Padilla G, Araújo WL (2018) Influence of water quality on diversity and composition of fungal communities in a tropical river. *Scientific Reports*, 8(1), 14799.

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Campbell AJ, Carvalheiro LG, Maués MM, Jaffé R, Giannini TC, Freitas MAB, Coelho BWT, Menezes C (2018) Anthropogenic disturbance of tropical forests threatens pollination services to açai palm in the Amazon river delta. *Journal of Applied Ecology*, 55(4):1725-1736. doi: 10.1111/1365-2664.13086.

Nicacio G, Calux A, Paula AQ, Brandi IV, Maurity CW, Siqueira JO, Jaffé R (2017). Proposta para a determinação de cavernas de dimensões notáveis em cavernas ferríferas. *Revista Brasileira de Espeleologia* 2(8): 15-25.

Giannini TC, Maia-Silva C, Acosta AL, Jaffé R, Carvalho AT, Martins CF, et al. (2017) Protecting a

managed bee pollinator against climate change: strategies for an area with extreme climatic conditions and socioeconomic vulnerability. *Apidologie* 48:784–794. doi: 10.1007/s13592-017-0523-5.

Kwong WK, Medina LA, Koch H, Sing KW, Soh E, Jaffé R, Moran NA (2017) Dynamic microbiome evolution in the social bees. *Science Advances*, 3(3): e1600513.

Koffler S, Kleinert AMP, Jaffé R (2017). Quantitative conservation genetics of wild and managed bees. *Conservation Genetics*, 18(3): 689-700.

Jaffé R, Prous X, Zampaulo R et al. (2016) Reconciling mining with the conservation of cave biodiversity: A quantitative baseline to help establish conservation priorities. *PLoS One*, 11, e0168348.

Giannini TC, Giulietti AM, Harley R, Viana PL, Jaffé R, Alves R, Pinto CE, Mota NFO, Caldeira C, Imperatriz-Fonseca V, Furtini A, Siqueira JO (2016) Selecting plant species for practical restoration of degraded lands using a multiple-trait approach. *Austral Ecology*, 42(5): 510-521.

Saturni FT, Jaffé R, Metzger JP (2016) Landscape structure influences bee community and coffee pollination at different spatial scales. *Agriculture, Ecosystems and Environment*, 235:1-12.

Jaffé R, Pope N, Acosta AL, Ives DA, Arias MC, De la Rúa P, Francisco FO, Giannini TC, González-Chaves A, Imperatriz-Fonseca VL, Tavares MG, Jha S, Carvalheiro LG (2016) Beekeeping practices and geographic distance, not land use, drive gene flow across tropical bees. *Molecular Ecology*, 25(21): 5345-5358.

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Santiago LR, Francisco FO, Jaffé R, Arias MC (2016) Genetic variability in captive populations of the stingless bee *Tetragonisca angustula*. *Genetica*, 144(4): 397-405.

Castilla AR, Pope N, Jaffé R, Jha S (2016) Elevation, not deforestation, promotes genetic differentiation in a pioneer tropical tree. *PLoS ONE*, 11(6): e0156694.

Jaffé R, Castilla A, Pope N, Imperatriz-Fonseca VL, Metzger JP, Arias MS, Jha S (2016) Landscape genetics of a tropical rescue pollinator. *Conservation Genetics*, 17(2): 267-278.

Giannini TC, Tambosi LR, Acosta AL, Jaffé R, Saraiva AM, Imperatriz-Fonseca VL, Metzger JP (2015) Safeguarding ecosystem services: A methodological framework to buffer the joint effect of habitat configuration and climate change. *PLoS ONE*, 10(6): e0129225.

Koffler S, Menezes C, Menezes P, Menezes P, Kleinert AMP, Imperatriz-Fonseca VL, Pope N, Jaffé R (2015) Temporal variation in honey production by the stingless bee *Melipona subnitida* (Hymenoptera: Apidae): Long term management reveals its potential as a commercial species in northeastern Brazil. *Journal of Economic Entomology*, 108(3): 858-867.

Jaffé R, Pope N, Carvalho AT, Maia UM, Blochtein B, Carvalho CAL, Carvalho-Zilse GA, Freitas BM, Menezes C, Ribeiro MF, Venturieri GC, Imperatriz-Fonseca VL (2015) Bees for development: Brazilian survey reveals how to optimize stingless beekeeping. *PLoS ONE*, 10(3): e0121157.

Madureira Maia UM, Jaffé R, Carvalho AT, Imperatriz-Fonseca VL (2015) Meliponiculture in Rio Grande do Norte. *Revista Brasileira de Medicina Veterinária*, 37(4): 327-333.

Menezes HM, Koffler S, Freitas BM, Imperatriz-Fonseca VL, Jaffé R (2014) Assessing sperm quality in stingless bees. *Sociobiology*, 61(4): 517-522.

Perichon S, Jaffé R, Geuster C (2014). Stingless bees in urban areas: a new leisure activity or a honey trade - the example of Chapeco, an average town of Santa Catarina, Brazil. *Cahiers Agricultures*, 23(6): 366-373.

Jaffe K, Flórez A, Manzanares M, Jaffé R, Gomes C, Rodríguez D, Achury C (2014) On the bioeconomics of shame and guilt. *Journal of Bioeconomics*, 17(2): 137-149.

Jaffé R (2014) An updated guide to the study of polyandry in social insects. *Sociobiology*, 61(1):1-8.

Jaffé R, Pioker-Hara F, Santos C, Santiago L, Alves D, M. P. Kleinert A, Franco T, Arias M, Imperatriz-Fonseca V (2014) Monogamy in large bee societies: a stingless paradox. *Naturwissenschaften*, 101(3): 261-264.

Human H, Brodschneider R, Dietemann V, Dively G, Ellis JD, Forsgren E, Fries I, Hatjina F, Hu FL, Jaffé R, et al. (2013) Miscellaneous standard methods for *Apis mellifera* research. *Journal of Apicultural Research*, 52(4): 1-56.

De la Rúa P, Jaffé R, Muñoz I, Serrano J, Moritz RFA, Kraus FB (2013) Conserving genetic diversity in the honey bee. Comments on Harpur et al. (2012). *Molecular Ecology*, 22(12): 3208-3210.

Jaffé R, Garcia-Gonzalez F, Den Boer SPA, Simmons LW, Baer B (2012) Patterns of paternity skew among polyandrous social insects: What can they tell us about the potential for sexual selection? *Evolution*, 66(12): 3778-3788.

Yañez O, Jaffé R, Jarosch A, Fries I, Moritz RFA, Paxton R and De Miranda J (2012) Deformed wing virus and drone mating flights in the honey bee (*Apis mellifera*): implications for sexual transmission of a major honey bee virus. *Apidologie*, 43(1): 17-30.

Jaffé R, Dietemann V, Allsopp MH, Costa C, Crewe RM, Dall'Olio R, De la Rúa P, El-Niweiri MAA, Fries I, Kezic N, Meusel MS, Paxton RJ, Shaibi T, Stolle E and Moritz RFA (2010) Estimating the density of honeybee colonies across their natural range to fill the gap in pollinator decline censuses. *Conservation Biology*, 24(2): 583-593.

Jaffé R, Moritz RFA (2010) Mating flights select for symmetry in honeybee drones (*Apis mellifera*). *Naturwissenschaften*, 97(3): 337-343.

De la Rúa P, Jaffé R, Dall 'Olio R, Muñoz I and Serrano J (2009) Biodiversity, conservation and current threats to European honeybees. *Apidologie*, 40(3): 263-284.

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Jaffé R, Peñaloza C, Barreto G (2008) Monitoring an endangered fresh water turtle management program: Effects of nest relocation on growth and locomotive performance of the Giant South American Turtle (*Podocnemis expansa*: Podocnemididae). *Chelonian Conservation and Biology*, 7(2): 213-222.

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ants' defence of *Cecropia* trees in a tropical rainforest: support for optimal defence theory. *Ecological Research*, 23(5): 905-908.

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Jaffé R, Eberhard W, De Angelo C, Eusse D, Gutierrez A, Quijas S, Rodríguez A, Rodríguez M (2006) Caution webs in the way! Possible functions of silk stabilimenta in *Gasteracantha cancriformis* (Araneae: Araneidae). *Journal of Arachnology*, 34(2): 448-455.

### **Book Chapters**

Santos FMG, Guimarães LSL, Campos LF, Fernandes T, Giannini TC, Jaffé R (2021) *Vale & Biodiversity*, Vale S.A.

Prous X, Jaffé R (2018) Reconciling Mining with the Conservation of Cave Biodiversity. In: *Vale & Biodiversity*, Vale S.A.

Cavender-Bares J, Arroyo MTK, Abell R, Ackerly D, Ackerman D, Arim M, Belnap J, Castañeda Moya F, Dee L, Estrada-Carmona N, Gobin J, Isbell F, Jaffé R, Köhler G, Koops M, Kraft N, Mcfarlane N, Martínez-Garza C, Metzger JP, Mora A, Oatham M, Paglia A, Pedrana J, Peri PL, Piñeiro G, Randall R, Robbins WW, Weis J, and Ziller SR (2018) Chapter 3 Status and trends of biodiversity and ecosystem functions underpinning nature's benefit to people In: *IPBES (2018): The regional assessment report on biodiversity and ecosystem services for the Americas*. Rice J, Seixas CS, Zaccagnini ME, Bedoya-Gaitán M, and Valderrama N (eds) Secretariat of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services, Bonn, Germany.

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Kovács-Hostyánszki A, Li J, Pettis J, Settele J (Cordinating lead authors) Aneni T, Espindola A, Kahono S, Szentgyörgyi H, Thompson H, Vanbergen A, Vandame R (Lead authors) Baldock K, Belzunces LP, Black S, Blacquiere T, Bosch J, Chantawannakul P, Dicks L, Goddard M, Harpke A, Jaffé R, Memmott J, Morales CL, Noome D, Schweiger O (Contributing authors) Kremen C, Heong KL, Raine N (Review editors) (2016) Drivers of change of pollinators, pollination networks and pollination. In: The assessment report of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services on pollinators, pollination and food production. Potts SG, Imperatriz-Fonseca VL, Ngo HT (Eds) Secretariat of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services, Bonn, Germany. p. 27-149. ISBN: 978-92-807-3567-3.

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#### **Other non-peer-reviewed publications**

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Koffler S, Menezes C, Menezes PR, Kleinert AMP, Imperatriz-Fonseca VL, Pope N, Jaffé R (2015) Variação temporal na produção de mel pela abelha Jandaíra: manejo a longo prazo revela seu potencial como espécie comercial no Nordeste brasileiro. Mensagem Doce, 132: 16-19.

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## **Presentations**

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Dalapicolla J, Caldeira CF, Jaffé R (2021). Effects of local adaptation on natural populations of a threatened medicinal plant species from Eastern Amazon: integrating genotype, phenotype, and environment to detect most productive populations. In: Landscape ecology research in neotropical landscapes: ecological functions, socio-cultural challenges, and technological constraints (Symposium). IALE-North America Annual Meeting: Apr 8th – 16th, Reno, Nevada, USA.

Jaffé R (2019) Everything you always wanted to know about gene flow in tropical landscapes (but were afraid to ask). US-IALE 2019 Annual Meeting: April 7th - 11th, Fort Collins, Colorado, USA.

Carvalho CS, Rico Y, Jaffé R (2019) Symposium on “Gene Flow in Tropical Landscapes”. US-IALE 2019 Annual Meeting: April 7th - 11th, Fort Collins, Colorado, USA.

Farinaci JS, Barral MP, Díaz J, Jaffé R, Thompson L, Valle M (2018) Knowledge gaps in the IPBES Regional Assessment Report on Biodiversity and Ecosystem Services for the Americas. LAC 2018 ESP Regional Conference: October 22nd – 26th, Campinas, Brazil.

Alvarado-Montero S, Boesing AL, Jaffé R (2018) Effect of landscape structure on the scavenger insect community and the provision of the carrion removal ecosystem service. LAC 2018 ESP Regional Conference: October 22nd – 26th, Campinas, Brazil.

Carvalho CS, Lanes ECM, Silva AR, Viana PL, Nascimento W, Jaffé R (2018) Fatores determinantes do fluxo gênico em duas plantas endêmicas da Serra de Carajás. 2ª Reunião da Associação Brasileira de Ciência Ecológica e Conservação & 6º Simpósio de Ecologia Teórica: August 19th -22nd, Campinas, Brazil.

Jaffé R (2018) Landscape genetics of stingless bees: What do we know so far? 18th Congress of the International Union for the Study of Social Insects (IUSSI 2018): August 5th-10th, Guarujá, Brazil.

Jaffé R (2018) Influência da paisagem sobre as comunidades de troglóbios de cavernas ferruginosas. Ciclo de Palestras Área de Influência de Cavernas: Match 6th-7th, Belo Horizonte, Brazil.

Jaffé R (2018) Mineração e conservação de relictos subterrâneos: Influência da paisagem sobre as comunidades de troglóbios de cavernas ferruginosas. XXXII Congresso Brasileiro de Zoologia: February 25th – March 2nd, Foz do Iguaçu, Brazil.

Jaffé R (2017) Reconciling mining with the conservation of biodiversity and ecosystem services. 2017. First International Congress Of Science, Technology and Innovation of the Americas: May 18th-19th, Bogotá, Colombia.

Jaffé R; Arias MC; Carvalho AT; Giannini TC; Imperatriz-Fonseca VL; Moritz RFA, Saraiva AM (2015) Landscape genomics of a key pollinator from Northeastern Brazil: Unraveling local adaptations in the stingless bee *Melipona subnitida*. XI Encontro sobre Abelhas: October 10th -12th, Riberão Preto, Brazil.

Jaffé R; Castilla A; Pope N; Imperatriz-Fonseca VL; Metzger JP; Arias MC, Jha S (2015) Landscape genetics of a tropical rescue pollinator. XI Encontro sobre Abelhas: October 10th -12th, Riberão Preto, Brazil.

Jaffé R, Pope N, Giannini TC, Alves DA, Jha S, Carvalheiro LG (2015) Human management increases genetic differentiation and weakens isolation by distance across stingless bees. 100th ESA Annual Meeting: August 9-14th, Baltimore, USA.

Jaffé R, Pope N, Carvalho AT, Maia UM, Blochtein B, Carvalho CAL, Carvalho-Zilse GA, Freitas BM, Menezes C, Ribeiro MF, Venturieri GC, Imperatriz-Fonseca VL (2015) Optimizing stingless beekeeping. IX Congreso Mesoamericano sobre Abejas Nativas: April 20-25th, San Cristóbal de Las Casas, Mexico.

Jaffé R (2014) The evolution of polyandry in the social Hymenoptera: Where are we now? XXXII Encontro Anual de Etologia e V Simpósio Latino-americano de Etologia: November 18-21st Mossoró, Brazil.

Saturni FT, Jaffé R, Metzger JPW (2014) Does landscape structure influence native bees and coffee pollination in the tropics? 7th Conference of the Ecosystem Services partnership: September 8th-12th, San José, Costa Rica.

Jaffé, R; Pioker-Hara F, Santos C, Santiago L, Alves D, M. P. Kleinert A, Francoy T, Arias M, Imperatriz-Fonseca V (2014) Monogamia em grandes sociedades de abelhas: Um paradoxo sem ferrão. Brazilian IUSSI Workshop II: February 24-25th, Riberão Preto, Brazil.

Jaffé, R (2013) Seleção sexual em insetos sociais: os machos brigam, mas as rainhas mandam. Brazilian IUSSI Workshop I: March 7-9th, Riberão Preto, Brazil.

Jaffé, R (2013) Diagnóstico da Meliponicultura no Brasil. IV Seminário de Meliponicultura de Franca-SP: November 7 – 9th, Franca, Brazil.

Jaffé, R (2013) Diagnóstico da Meliponicultura no Brasil. X Encontro Estadual de Meliponiculturas: July 11-13th, Ijuí, Brazil.

Jaffé R (2012) Novas ferramentas moleculares para proteger as abelhas nativas sem ferrão. SINSECTA Semana Entomológica da Bahia: December 3–9th, Cruz das Almas - BA, Brazil.

Jaffé R, Garcia-Gonzalez F, den Boer SPA, Simmons LW, Baer B (2012) Sexual selection in social insects: males fight but queens rule. 5th European Conference of Apidology: 3-7th September, Halle an

der Saale, Germany.

Jaffé R (2012) Assessing the status of wild and managed honeybee populations in Europe. X Encontro sobre Abelhas: July 25th – 28th, Ribeirão Preto, Brazil.

Den Boer SPA, Jaffé R, Garcia-Gonzalez F, Boomsma JJ, Simmons LW, Baer B (2011) Post-copulatory sexual selection: Widespread among social insects? (poster) 13th Congress of the European Society for Evolutionary Biology: August 20th -25th, Tuebingen, Germany.

Jaffé R (2010) Using pheromone traps to improve honeybee breeding. Nosema Conference: June 12-13th, Perth, Australia.

Jaffé R, Baer B, Simmons LW (2010) One day stand: The revealing story behind honeybee males and their sperm (poster). 13th International Behavioral Ecology Congress: September 26th – October 1st, Perth, Australia.

Jaffé R, Baer B, Simmons LW (2010) One day stand: The revealing story behind honeybee males and their sperm (poster). XVI Congress of the International Union for the Study of Social Insects: August 8th – 14th, Copenhagen, Denmark.

Jaffé R, Moritz RFA, Paxton R, Fries I (2009) European honeybees: A deep red species on the list. 41st Apimondia Congress: September 15th – 20th Montpellier, France.

Jaffé R, Jarosch A, Moritz RFA (2009) Can mating flights hinder the vertical transmission of a honeybee (*Apis mellifera*) virus? COLOSS Work Shop New Molecular Tools: May 19th – 21st, Bern, Switzerland.

Jaffé R, Dietemann V, Crewe R, Moritz RFA (2009) Temporal dynamics of an *Apis mellifera* scutellata drone congregation area. 56 Jahrestagung der Arbeitsgemeinschaft der Institut für Bienenforschung E.V.: March 24th - 26th, Schwerin, Germany.

Jaffé R, Dietemann V, Crewe R, Moritz RFA (2008) Temporal dynamics of an African honeybee Drone Congregation Area. 3rd European Conference of Apidology: September 8th - 11th, Belfast, UK.

Jaffé R, Dietemann V, Crewe R, Moritz RFA (2008) Temporal genetic structure of a honeybee (*Apis mellifera*) Drone Congregation Area: A sex club with regular clients? 4th European Meeting of the International Union for the Study of Social Insects: August 30th - September 4th, La Roche-en-Ardenne, Belgium.

Jaffé R, Kraus FB, Moritz RFA (2007) Male mating flights and polyandry promote gene flow in the army ant *Eciton burchellii*. 20 Meeting of the German-speaking Section of the International Union for the Study of Social Insects: September 26th - 28th, Schwerte, Germany.

Jaffé R, Kronauer DJC, Kraus FB, Boomsma JJ, Moritz RFA (2007) Rank in ant armies: How fathers influence caste in army ants (poster). XI Congress of the European Society for Evolutionary Biology: August 20th - 25th, Uppsala, Sweden.

Jaffé R, Shaibi T, Dietemann V, Kraus FB, Crewe R, Moritz RFA (2007) Comparing honeybee densities: European semi-natural habitats versus African deserts (poster). Sustainable Neighbourhood - from Lisbon to Leipzig through Research (L2L): May 8th - 10th, Leipzig, Germany.

Jaffé R, Shaibi T, Dietemann V, Kraus FB, Crewe R, Moritz RFA (2007) Comparing honeybee densities: European versus African semi-natural and natural habitats. 54. Jahrestagung der Arbeitsgemeinschaft der Institut für Bienenforschung e.V.: March 27th - 29th, Würzburg, Germany.

Jaffé R, Shaibi T, Dietemann V, Kraus FB, Crewe R, Moritz RFA (2006) Is Europe a desert for

honeybees? 2nd European Conference of Apidology: September 10th - 14th, Prague, Czech Republic.

Kraus FB, Jaffé R, Moritz RFA (2006) The consequences of polyandry for division of labour in the army ant *Eciton burchellii*. XV Congress of the International Union for the Study of Social Insects: July 30th – August 5th, Washington DC, USA.

Sanchez C, Hilje B, Jaffé R, Barrantes G. (2004) Vocal variation in the Green Violet-ear, a Neotropical hummingbird. The 85th Annual Meeting of the Wilson Ornithological Society: April 22nd – 25th, Ithaca, New York.

## Editorships & Editorial Review Boards

Ecological Applications, Subject Matter Editor, 2021 - present.

PeerJ, Academic Editor, 2018 - present.

Perspectives in Ecology and Conservation, Associate Editor, 2019 - present.

## Research Grants

International Mobility Grant (principal investigator). National Council for Scientific and Technological Development (Brazil), 2018.

Research Grant (principal investigator). National Council for Scientific and Technological Development (Brazil), 2018.

Research Productivity Grant (principal investigator). National Council for Scientific and Technological Development (Brazil), 2018.

IPBES Fellow - Regional assessment on biodiversity and ecosystem services for the Americas. Intergovernmental Platform on Biodiversity and Ecosystem Services (IPBES), United Nations, 2015-2018.

Research Grant (principal investigator). Coordination for the improvement of higher education personnel (Brazil), 2017.

Postdoctoral Visiting Fellowship (principal investigator). Foundation for Research Support of the State of São Paulo (Brazil), 2014.

FAPESP thematic project (participant). Foundation for Research Support of the State of São Paulo (Brazil), 2014.

Research Grant (participant). Research Center on Biodiversity and Computing (BioComp), University of São Paulo (Brazil), 2013.

Research Grant (principal investigator). National Council for Scientific and Technological Development (Brazil), 2013.

Postdoctoral Research Grant (principal investigator). Foundation for Research Support of the State of São Paulo (Brazil), 2012.

Postdoctoral Research Grant (principal investigator). University of Western Australia (Australia), 2009.

## Peer Reviewer

Apidologie, Behavioral Ecology and Sociobiology, BMC Evolutionary Biology, Conservation Genetics, Ecology and Evolution, Evolutionary Applications, Frontiers in Genetics, Frontiers in Ecology and Evolution, Heredity, Journal of Insect Conservation, Journal of Insect Science, Landscape Ecology, Landscape Online, Molecular Ecology, Parasites & Vectors, PeerJ, Perspectives in Ecology and Conservation, Plos One, Proceedings of the Royal Society B: Biological Sciences, Scientific Reports, Sociobiology.