

Tatiana A. Sepúlveda

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Professional interests

My research is focused on the evolutionary biology, systematic, taxonomy, and biodiversity of Diptera. In current projects, I study the evolution of the family Neriidae and the taxonomy of the genus of Syrphidae, *Copestylum* Maquart, also contributing to the development and maintenance of the biological collections. Recently, I have dedicated efforts to the creation of digital tools for popularizing scientific knowledge and promoting scientific careers in taxonomy (Neriidae.com).

Professional affiliations

- 2019–2020** *Postdoctoral associate*, Nacional Museum, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil. **Project:** Systematics and classification of Neriidae (Diptera, Schizophora): an evolutionary approach based on phylogenetic information and molecular dating.
- 2017–2018** *Postdoctoral associate*, Department of Zoology, Federal University of Paraná, Curitiba, Brazil. **Project:** Molecular phylogenetic analysis and estimation of divergence times of Neriidae (Diptera).

Education

- 2013–2017** *Ph. D. in Biological Sciences (Entomology)*, Federal University of Paraná, Curitiba, Brazil, with four months internship at the Smithsonian Institute, U.S.A. **Project:** Neriidae (Diptera, Schizophora) of the world: phylogeny, classification and revision of genera. **Supervisor:** Dr. Claudio José Barros de Carvalho.
- 2011–2013** *M. Sc. Biological Sciences (Entomology)*, Federal University of Paraná, Curitiba, Brazil. **Project:** Taxonomy of Neriidae of Colombia. **Supervisors:** Dr. Claudio José Barros de Carvalho and Dra. Marta I. Wolff.
- 2005–2010** *Bachelor in Biology*, University of Antioquia, Medellín, Colombia.

Complementary education

- *CS50 Introduction to computer Science*, Harvard University (on-line) (July – August/2020).
- *The Python Programming Masterclass*, Udemy (on-line) (July – September/2020).
- *Web Developing Full Stack Node AD*, Digital House (semi-presential) (August/2020 – current).

Language skills

- *Spanish* – native
- *English* – TOELF-ITP (2017): High-Intermediate; TOELF-iBT (2013): High-Intermediate
- *Portugues* – CELPE-Bras (2011); Advanced

Development and maintenance of web pages

- *Neriidae.com* (author, 2018–2020). Cybertaxonomy website, containing information on morphology, taxonomy, systematics and distribution of the group of acalyptrate Diptera of the family Neriidae neriidae.com
- *Tatiana Sepúlveda CV* (author, 2020) Curriculum vitae. tatianasepulveda.com

- *Brazilian Fauna Taxonomic Catalog. Family Neriidae* (collaborator, 2018–2020). Responsible for the list of valid species of Neriidae found in Brazil. fauna.jbrj.gov.br

Curatorial care of natural history collections

- *Coleção Entomológica 'Padre Jesus Santiago Moure'*, DZUP, Brazil (2011–current)
- *Museu Nacional, Universidade Federal do Rio de Janeiro*, MNRJ, Brazil (2012, 2018–2020).
- *Coleção Zoológica do Maranhão*, CZMA, Brazil (2019)
- *American Museum of Natural History*, AMNH, New York, United States of America (2017)
- *National Museum of Natural History, Smithsonian Institution*, NMNH, United States of America (2015, 2017)
- *Museum of Comparative Zoology, Harvard University*, MCZ, Boston, United States of America (2015)
- *Museu de Zoologia da Universidade de São Paulo*, MZSP, São Paulo, Brazil (2012, 2013)
- *Colección Entomológica de la Fundación Miguel Lillo, Instituto Superior de Entomología Dr. Abraham Willink*, IFML, Tucumán, Argentina (2012)
- *Colección Entomológica de la Universidad de Antioquia*, CEUA, Medellín, Colombia (2009–2011)

Teaching experience

- **Sepúlveda, T.A.**, Souza, D.S. & Monné, L.M. (2019) *Phylogenetics of Insects*. Postgraduate Program in Biological Sciences (Zoology) Museu Nacional, Universidade Federal do Rio de Janeiro (Postgraduation Regular Course)
- **Sepúlveda, T.A.**, Souza, D.S. & de Carvalho, C.J.B. (2015) *Biogeography*. Postgraduate Program in Biological Sciences (Entomology) Federal University of do Paraná (Postgraduation Regular Course)

Extension and outreach

- *The Biologist's logbook* (author, 2018–2019). Orientations on the biologist's professional practice for graduate students of Universidad de Antioquia and school seniors of the city of Medellín, Colombia facebook.com/Bitácoras-de-un-Biólogo-1800975300030769
- *IV Extension Course in Entomology* (collaborator, 2015). *Taxonomy and Phylogenetics of Insects*. Postgraduate Program in Biological Sciences (Entomology) Federal University of Paraná (Short Course) (10h).

Publications

15. **Souza, D.S.**, Lampert, S., Sepúlveda, T.A., Sanz-Veiga, P.A., & Savaris, M. *Psyllotoxus griseocinctus* Thomson, 1868 (Coleoptera: Cerambycidae): a potential pest of roses in Brazil. *Annals of the Brazilian Academy of Sciences*, no prelo.
14. **Sepúlveda T.A.**, Souza D.S., Echeverry A., Marinoni L. & de Carvalho C.J.B. (2020) Revalidation and taxonomic revision of *Teloneria* Aczél (Diptera, Neriidae), with description of two new species. *European Journal of Taxonomy*, 717: 70–89. doi.org/10.5852/ejt.2020.717.1099
13. Souza D.S., **Sepúlveda T.A.**, Marinoni L., Monné M.L. (2020) Phylogenetic analyses provide new insights into systematics of the longhorned beetle tribe Acrocinini (Coleoptera: Cerambycidae: Lamiinae). *Arthropod Systematics & Phylogeny*, 78(1): 17–27. doi.org/10.26049/ASP78-1-2020-02

12. **Sepúlveda T.A.**, Gomes L.R.P. & Limeira-de-Oliveira F. (2020) Neriidae (Diptera: Schizophora) of the Northeastern Brazil: new records and an identification key. *Biota Neotropica*, 20(1): e20190854. [dx.doi.org/10.1590/1676-0611-BN-2019-0854](https://doi.org/10.1590/1676-0611-BN-2019-0854)
11. **Sepúlveda T.A.** & Souza D.S. (2020) Taxonomic revision and phylogeny of the *Eoneria*-group (Diptera, Neriidae). *Insect Systematics & Evolution*, 51: 637–671. [dx.doi.org/10.1163/1876312X-00002305](https://doi.org/10.1163/1876312X-00002305)
10. **Sepúlveda T.A.**, Echeverry A.M. & Souza D.S. (2020) New species of *Chaetonerius* Hendel (Diptera: Neriidae) and key for identification of the Neriidae of Tanzania. *Zootaxa*, 4656: 389–392. [dx.doi.org/10.11646/zootaxa.4755.1.12](https://doi.org/10.11646/zootaxa.4755.1.12)
9. **Sepúlveda T.A.**, Souza D.S., Gomes L.R., Fogaça J.M. & de Carvalho C.J.B. (2019) The Neriidae (Diptera) of Southeast Asia: A taxonomic revision of the genus *Telostylus*. *European Journal of Taxonomy*, 116: 281–301. [dx.doi.org/10.14411/eje.2019.032](https://doi.org/10.14411/eje.2019.032)
8. **Sepúlveda T.A.** & Souza D.S. (2019) A new species of *Chaetonerius* Hendel (Diptera: Neriidae) from Northeast Madagascar. *Zootaxa*, 4656: 389–392. [dx.doi.org/10.11646/zootaxa.4656.2.12](https://doi.org/10.11646/zootaxa.4656.2.12)
7. **Sepúlveda T.A.** & de Carvalho C.J.B. (2019) *Chaetonerius* Hendel (Neriidae: Diptera) from the East African islands. *Zootaxa*, 4656: 389–392. doi.org/10.11646/zootaxa.4567.1.7
6. **Sepúlveda T.A.**, de Carvalho C.J.B. & Pereira-Colavite A. (2019) Systematics of the Neotropical genus *Loxozus* Enderlein (Diptera, Neriidae), with notes on distribution and sexual dimorphism. *Zootaxa*, 36: e26928. [dx.doi.org/10.3897/zoologia.36.e26928](https://doi.org/10.3897/zoologia.36.e26928)
5. Calhau J., Pereira-Colavite A., **Sepúlveda T.A.**, de Carvalho C.J. B., Arruda P.M., Nihei S.S., Kosmann C., Pujol-Luz C.V.A. & Pujol-Luz J.R. (2017) Checklist of the Heleomyzidae, Neriidae and Oestridae (Insecta: Diptera) in the State of Mato Grosso do Sul, Brazil. *Inheringia Série Zoológica*, 107: 1–5. [dx.doi.org/10.1590/1678-4766e2017143](https://doi.org/10.1590/1678-4766e2017143)
4. **Sepúlveda T.A.** & de Carvalho C.J.B. (2015) Family Neriidae. In: Wolff M. I.; Nihei S. & de Carvalho C. J. B. Catalogue of Diptera of Colombia. *Zootaxa*, 4122: 549–554. [dx.doi.org/10.11646/zootaxa.4122.1.41](https://doi.org/10.11646/zootaxa.4122.1.41)
3. **Sepúlveda T.A.**, Wolff M.I. & de Carvalho C. J.B. (2014) Revision of the New World genus *Glyphidops* Enderlein (Diptera: Neriidae). *Zootaxa*, 3785: 139–174. [dx.doi.org/10.11646/zootaxa.3785.2.2](https://doi.org/10.11646/zootaxa.3785.2.2)
2. **Sepúlveda T.A.**, Wolff M.I. & de Carvalho C.J.B. (2013a) Revision of the Neotropical genus *Eoneria* Aczél (Diptera: Neriidae) with description of a new species from Colombia. *Zootaxa*, 3636: 245–256. [dx.doi.org/10.11646/zootaxa.3636.2.2](https://doi.org/10.11646/zootaxa.3636.2.2)
1. **Sepúlveda T.A.**, Pereira-Colavite A. & de Carvalho C.J.B. (2013b) Revision of the Neotropical genus *Cerantichir* (Diptera: Neriidae) with new records and a key to species. *Revista Colombiana de Entomología*, 39: 125–131. scielo.org.co/pdf/rcen/v39n1/v39n1a21.pdf

Organization of scientific meetings

- 9th International Symposium on Syrphidae. 28/August – 1/September 2017, Curitiba, Brazil.
- III Extension Course in Entomology, 27/January – 1/February 2014, Postgraduate Program in Biological Sciences (Entomology), UFPR, Curitiba, Brazil.

Honors and awards

- Erns Mayr Grant – Museum of Comparative Zoology, Harvard University. **Project:** *Revision, cladistic and biogeographic analyses of Neriidae (Diptera)* (2015) US\$1,450.
- Graduate student Fellowship – Smithsonian Institution Fellowship Program (SIFP). **Project:** *Revision, Systematics and Morphological Phylogeny of Neriidae (Diptera), with focus on genital characters* (2015) US\$7,000.

- EnlazaMundos – Prefeitura de Medellín, Colômbia para estudos internacionais. **Project:** *Revisão, Análises Cladística e Biogeografia de Neriidae (Insecta, Diptera)*. (2013–2014) US\$14,400.
- Bachelor Internship (Jardines del Portal Ltda./ University of Antioquia). **Project:** *Determination of species of populations of Coenosia (Diptera: Muscidae) and its establishment in flower plantations in La Ceja, Antioquia, as biological pest control* (2009).
- Bachelor Internship (CODI 3035/ University of Antioquia). **Project:** *Some aspects of the biology of Scutigerella immaculata (Newport) (Symphyla: Scutigerellidae) in laboratory and greenhouse conditions* (2008-2009).

Taxonomic acts

Taxons described

14. *Teloneria juceliae* Sepúlveda & Souza, 2020
13. *Teloneria ladyae* Sepúlveda & Souza, 2020
12. *Chaetonerius stichodactylus* Sepúlveda, Echeverry & Souza, 2020
11. *Chaetonerius serratus* Sepúlveda & Souza, 2019
10. *Chaetonerius ebejeri* Sepúlveda & de Carvalho, 2019
9. *Chaetonerius kotrbae* Sepúlveda & de Carvalho, 2019
8. *Chaetonerius kirkspriggsi* Sepúlveda & de Carvalho, 2019
7. *Telostylus whitmorei* Sepúlveda & de Carvalho, 2019
6. *Chaetonerius madagasikara* Sepúlveda & de Carvalho, 2019
5. *Telostylus marshalli* Sepúlveda & de Carvalho, 2019
4. *Glyphidops coracinus* Sepúlveda, Wolff & de Carvalho, 2014
3. *Glyphidops ruselatus* Sepúlveda, Wolff & de Carvalho, 2014
2. *Glyphidops steyskali* Sepúlveda, Wolff & de Carvalho, 2014
1. *Eoneria aczeli* Sepúlveda & de Carvalho, 2013

Taxons revalidated

3. *Teloneria* Aczél (Sepúlveda *et al.*, 2020)
2. *Antillonerius solitarius* Johnson (Sepúlveda & Souza, 2020)
1. *Glyphidops vittatus* (Cresson) (Sepúlveda *et al.*, 2014)

Synonyms

4. *Eoloxozus* Aczél = *Eoneria* Aczél (Sepúlveda & Souza, 2020)
3. *Chaetomeristes peruanus* Enderlein = *Glyphidops bullatus* (Enderlein) (Sepúlveda *et al.*, 2014)
2. *Nerius dispar* Cresson = *Oncopsia neutra* Hennig = *Oncopsia dubia* Hennig = *Glyphidops durus* (Cresson) (Sepúlveda *et al.*, 2014)
1. *Oncopsia seductrix* Hennig = *Glyphidops flavifrons* (Bigot) (Sepúlveda *et al.*, 2014)

New combinations

1. *Glyphidops bistriatus* Williston (Sepúlveda & Souza, 2020)