Diana Rueda-Ramírez

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Institute of Biology, Ecology Group
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My main interest is the study of soil predatory mites, especially those belonging to the order Mesostigmata. I am interested in their taxonomy, morphology, diversity, ecology, and practical use for the biological control of agricultural pests. I am also studying nematodes in agricultural soils as important organisms in soil food webs. Currently, my research is focused on better understanding the interactions that Mesostigmata mites have in the soil with other organisms such as nematodes and trying to restore some trophic relationships in agroecosystems. My current research seeks to have a conservation biological control approach

EDUCATION

07.2014–12.2018 **PhD in Biological Sciences**
Pontificia Universidad Javeriana, Bogotá, D.C., Colombia, Carrera 7 No. 43-82 - Edificio Carlos Ortíz, S.J. (52)
Double degree with ESALQ-USP
Concentration area: Ecology, DEGREE WITH HONORS SUMMA CUM LAUDE

07.2014–09.2018 **PhD in Sciences (Entomology)**
Escola Superior de Agricultura Luiz de Queiroz - Universidade de São Paulo, Av. Pádua Dias, 11 - Cx. Postal 9, 13418-900 Piracicaba (Brazil) , http://www.esalq.usp.br/
Thesis: Soil mesostigmatid mites (Acari: Mesostigmata) inhabiting rose fields and neighboring vegetation in the Bogota plateau and their potential role as biological control agents of *Frankliniella occidentalis* (Insecta: Thysanoptera)

02.2011–01.2013 **MSc in Sciences (Entomology)**
Escola Superior de Agricultura Luiz de Queiroz - Universidade de São Paulo, Av. Pádua Dias, 11 - Cx. Postal 9, 13418-900 Piracicaba (Brazil), http://www.esalq.usp.br/
Thesis: Ácaros edáficos Mesostigmata de grandes altitudes na Colômbia e os possíveis efeitos de mudanças edafo-climáticas sobre as populações destes ácaros.

08.2009–07.2011 **Specialist in Statistics**
Universidad Nacional de Colombia, Carrera 45 # 26 - 85 - Edificio Uriel, Bogotá (Colombia), http://www.unal.edu.co/

01.2002–10.2007 **Biologist**
Pontificia Universidad Javeriana, Carrera 7 # 40 - 62, Bogotá (Colombia), http://www.javeriana.edu.co/
Thesis: Abundancia, composición y análisis espacial de la meso- y macrofauna edáfica presente en la hojarasca en bosque y cafetal (Montenegro, Quindío, Colombia)

RELEVANT EXPERIENCE

04.2021–now **Postdoctoral Researcher**
Humboldt Universität zu Berlin, Institute of Biology, Ecology Group, Berlin (Germany), https://www.biologie.hu-berlin.de/de/gruppenseiten/oekologie
Project: "Harnessing the soil food web for the biological control of root-knot nematodes"

03.2019–03.2021 **Partner and Research Leader**
Explora AgroTecnología SAS, Chía, Cundinamarca (Colombia)
Advising and consulting in the area of research, agricultural development, biotechnology and pest management. Bioassays, project formulation and reporting.

10.2018–06.2021 **Temporary Professor**
Facultad de Ciencias Agrarias, Universidad Nacional de Colombia, Bogotá (Colombia), http://http://cienciasagrarias.bogota.unal.edu.co/
Graduate courses "Acarology" and "Integrate Pest Management". Advisor and co-advisor of undergraduate and master's degree projects in Acarology, Biological Control, Entomology and Pest Control. Part of the research group "Integrated Pest Management"
Projects: "Use of native edaphic mites for soil pest control, with special emphasis on pupal states of *Frankliniella occidentalis*" and "Evaluation of *Frankliniella occidentalis* susceptibility to two commercial chemical synthesis products under laboratory conditions"

09.2018–10.2020 **Consultant - Teacher**
Asociación Colombiana para el Avance de la Ciencias ACAC, Consultoría Integrada a Métodos de Aprendizaje - CIMA, Bogotá (Colombia)
Teacher in the quantitative and statistical part of courses. Content development in Statistics. Courses: Statistics for non-statisticians and Statistics for research.

10.2013–07.2014 **Clinical Data Specialist**
Merck Sharp & Dohme Colombia, Bogotá (Colombia), http://corporativo.msd.com.co/
Data management of clinical studies conducted in different parts of the world. First person certified in "Data Review" the first time of presentation of the certification exam. Training as Data Project Lead.

06.2013–10.2013 **Author**
Santillana Sistemas Educativos Ltda., Carrera 11A # 98 - 50 Piso 5, Bogotá (Colombia), http://www.santillana.com.co

Writing biology textbooks for children in sixth and seventh grades within the SISTEMA UNO project. Proposing innovative activities for the revision and application of concepts.

03.2013–05.2013 **Scientific Advisor**

NaturaVisión Ltda., Calle 12B # 1B - 53 Andes 4, Chía (Colombia), http://www.naturavision.com/

Performing statistical analysis of research projects with pests. Preparing project reports that include agricultural product efficacy tests. Design research projects.

02.2010–02.2011 **Young Researcher**

Pontificia Universidad Javeriana – Colciencias, Carrera 7 # 40 - 62, Bogotá (Colombia), http://www.javeriana.edu.co/

Project: Efecto del aumento de temperatura sobre ácaros de pastizal y bosque altoandino (Cuenca Río Blanco, Cundinamarca).

04.2009–01.2010 **Laboratory Assistant**

Belstar S.A, Km. 22 Autonorte Via Tocancipa, https://www.belcorp.biz/

Preparing and executing clinical trials for the study of cosmetic products. Analyze data and prepare reports on the results obtained.

08.2005–11.2005 **Internship in the Department of Soil Biology**

Instituto de Ecología, A.C., Carretera antigua a Coatepec 351, El Haya, Xalapa (México), http://www.inecol.mx/

Project: Spatial structure of the edaphic mesofauna in a forest-grassland transect of the Francisco Javier Clavijero botanical garden

PROFESSIONAL MEMBERSHIPS

- Sociedad Colombiana de Entomología -SOCOLEN
- Sociedad Latinoamericana de Acarología - SLA

KEY PUBLICATIONS

- **Rueda-Ramírez D**, Varela-Ramírez A, Ebratt-Ravelo E, Moraes GJ de (2021) Edaphic mesostigmatid mites (Acari: Mesostigmata) and thrips (Insecta: Thysanoptera) in rose cultivation and secondary vegetation areas in the Bogotá plateau, Colombia. International Journal of Acarology. DOI: 10.1080/01647954.2020.1866666
- Caballero A., Ramos-Portilla A.A., **Rueda-Ramírez D**., Vergara-Navarro E., Serna F. (2020) The scale insect (Hemiptera: Coccomorpha) collection of the entomological museum "Universidad Nacional Agronomía Bogotá", and its impact on Colombian coccidology. Bonn zoological Bulletin 69(2),165–183. DOI: 10.20363/BZB-2020.69.2.165
- Azevedo LH, Moreira MFP, Pereira GG, Borges V, Moraes GJ de, Inomoto MM, Vicente MH, Siqueira Pinto M de, Peres LEP, **Rueda-Ramírez D**, Carta L, Meyer SLF, Mowery J, Bauchan G, Ochoa R, Palevsky E (2020) Combined releases of soil predatory mites and provisioning of free-living nematodes for the biological control of root-knot nematodes on 'Micro Tom tomato'. Biological Control 146:1-4. DOI: 10.1016/j.biocontrol.2020.104280
- **Rueda-Ramírez D**, Santos JC, Famah-Sourassou N, Demite PR, Puerta-González A, Moraes GJ (2019) Placement of *Africoseius* in Podocinidae (Acari: Mesostigmata) based on molecular and morphological evidences. Systematic and Applied Acarology 24 (12):2369-2394. DOI: 10.11158/saa.24.12.7
- Azevedo LH, Leite LG, Orozco JGC, Moreira MFP, Ferreira MP, Cano LMG, Borges V, **Rueda-Ramírez D**, Moraes GJ de, Palevsky E (2019) Free living non-parasitic nematodes as alternative or 'real' prey for soil predatory mites: An interdisciplinary case study of conservation biological control. Biological Control 132: 128-134. DOI: 10.1016/j.biocontrol.2019.02.007
- **Rueda-Ramirez D**, Rios-Malaver D, Varela-Ramírez A, Moraes GJ de (2019) Biology and predation capacity of *Parasitus bituberosus* (Acari: Mesostigmata: Parasitidae) on *Frankliniella occidentalis* (Thysanoptera: Thripidae) and free-living nematodes as complementary diet. Pest Management Science 75(7): 1819-1830. DOI: 10.1002/ps.5326
- **Rueda-Ramírez D**, Rios-Malaver D, Varela-Ramírez A, Moraes GJ de (2018) Colombian population of the mite *Gaeolaelaps aculeifer* as a predator of the thrips *Frankliniella occidentalis* and the possible use of an astigmatid mite as its factitious prey. Systematic and Applied Acarology 23 (12): 2359–2372. DOI: 10.11158/saa.23.12.8
- Santos JC, **Rueda-Ramírez D**, Demite PR, Moraes GJ (2018) Ascidae, Blattisociidae and Melicharidae (Acari: Mesostigmata): zoogeographic analyses based on newly available databases. Zootaxa 4377 (4): 542–564. DOI: 10.11646/zootaxa.4377.4.4
- **Rueda-Ramírez D**, Varela A, De Moraes GJ (2016) Soil mites of the families Ascidae, Blattisociidae and Melicharidae (Acari: Mesostigmata) from mountainous areas of Colombia. Zootaxa 4127 (3): 493–514. DOI:10.11646/zootaxa.4127.3.5
- **Rueda-Ramírez D,** Varela A (2016) Distribución espacial, composición y densidad de edafofauna en hojarasca en bosque y cafetal (Montenegro, Quindío). Acta Biologica Colombiana 21 (2): 399–412. DOI:10.15446/abc.v21n2.43814
- Muñoz-Cárdenas K, Fuentes LS, **Rueda-Ramírez D**, Rodríguez CD, Cantor RF (2015) The Erythraeoidea (Trombidiformes: Prostigmata) as biological control agents, with special reference to the genus *Balaustium* (Chapter 8). In: Carrillo D, Moraes GJ, Peña JE (eds.). Prospects for Biological Control of Plant Feeding Mites and Other Harmful Organisms. Progress in Biological Control, Vol. 19. Springer. 350 p. ISBN: 978-3-319-15042-0. DOI: 10.1007/978-3-319-15042-0_8

HOBBIES

- Riding bike
- Jogging
- Reading
- Traveling

Diana Rueda-Ramírez
14.07.2021, Berlin (Germany)