

CURRICULUM VITAE

Camiel Doorenweerd, PhD.



Personals

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Languages: Dutch (native), English (fluent), French, German (passive),
Python, R, Bash, SQL

Research positions

2017-present **Junior Researcher** at University of Hawaii at Manoa. Systematics of Dacini fruit flies (Tephritidae) in relation to their pest status. USDA Plant Protection Act funded position.

Instruction

2019 **Instructor** for PEPS 690 Seminar on "Insect Evolution"
2018-2019 **Co-instructor** for PEPS 662 "Systematics and Phylogenetics" by Prof. Rubinoff
2018 **Instructor** one-day workshop on "Python for data analyses" for faculty and students
2017 **Guest lecturer** for University of Amsterdam "Evolution" (grad. lvl) by Prof. Roessingh
2015 **Guest lecturer** for Leiden University "Richness of the world" (grad. lvl) by Prof. Schilthuizen
2013-2016 Yearly **TA** for Leiden University "Biodiversity I" (undergrad. lvl) by Dr. Roos
2010 **Teacher** "Travelling DNA Lab" at Leiden University; teaching a molecular lab at highschoools
2007 **TA** for Radboud University "Population Genetics" (grad. lvl) by Dr. Ouborg

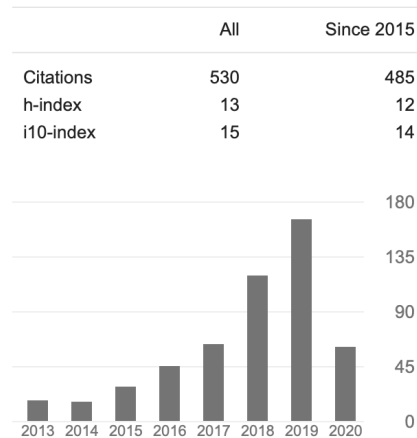
Education

2012-2016 **PhD** at **University of Amsterdam** and **Naturalis Biodiversity Center**. Research on the evolution of plant-insect interaction in leaf-mining moths using molecular methods. Promotor Prof. Dr. Steph B.J. Menken and co-promotor Dr. Erik J. van Nieukerken. Title obtained October 25, 2016.
2006-2009 **Masters Biology** (MSc.) at **Radboud University Nijmegen**, diploma received *bene meritum* August 31, 2010. Specialisation: evolution and ecology.
2003-2008 **Bachelor Biology** (BSc.) at **Radboud University Nijmegen**, diploma received April 12, 2008. Includes one year of Dean's office membership as student-assessor.
1997-2003 **VWO** (~ pre-university level high school) at the Christelijke Scholengemeenschap Walcheren in Middelburg, diploma received in June 2003.

Other relevant experience

2019-present **Treasurer** for Arch Climbing Foundation 501(c)(3), an organization that promotes rock climbing in Hawaii
2014-2017 **Secretary** for the microlepidoptera section Snellen of the Netherlands Entomological Society.
2010-2012 **Project manager** establishing molecular laboratory infrastructure [~1.2\$ million budget] for high-throughput DNA barcoding at Naturalis Biodiversity Center
2009-2010 **Senior technical assistant** curating the leaf-mining Lepidoptera collections at Naturalis Biodiversity Center

SCIENTIFIC PUBLICATIONS



Google scholar tracked citation statistics [Jun-19-2020]

Profile page: <https://scholar.google.com/citations?user=97LLcawAAAAJ&hl=en>

List of publications in reverse chronological order:

2020

35. **Doorenweerd, C.**, Sievert, S., Rossi, W., Rubinoff, D. 2020. The paradoxical rarity of a fruit fly fungus attacking a broad range of hosts. *Ecology and Evolution* 1–9. DOI: <https://doi.org/10.1002/ece3.6585>
34. **Doorenweerd, C.**, Jose, M.S., Barr, N., Leblanc, L., Rubinoff, D. 2019. Highly variable COI haplotype diversity between three species of invasive pest fruit fly reflects remarkably incongruent demographic histories. *Scientific Reports* 10 6887 DOI: <https://doi.org/10.1038/s41598-020-63973-x>. [Preprint Aug 2019: *BioRxiv*. 742007. DOI: <https://doi.org/10.1101/742007>]
33. Cupedo, F., **Doorenweerd, C.** 2020. The intraspecific structure of the Yellow-spotted ringlet *Erebia manto* (Denis & Schiffermüller, [1775]), with special reference to the bubastis group: an integration of morphology, allozyme and mtDNA data (Lepidoptera, Nymphalidae, Satyrinae). *Nota Lepidopterologica* 43: 43–60. DOI: <https://doi.org/10.3897/nl.43.47409>
32. Rubinoff, D., **Doorenweerd, C.** 2020. Systematics and biogeography reciprocally illuminate taxonomic revisions in the silkworm genus *Saturnia* (Lepidoptera: Saturniidae). *Journal of the Lepidopterists' Society* 74(1): 1–6. DOI: <https://doi.org/10.18473/lepi.74il.al>
31. Rubinoff, D., **Doorenweerd, C.** 2020. In and out of America: Ecological and species diversity in Holarctic giant silkmths suggests unusual dispersal, defying the dogma of an Asian origin. *Journal of Biogeography* 47(4): 903–914. DOI: <https://doi.org/10.1111/jbi.13756>

2019

30. Leblanc, L., Hossain, M. A., **Doorenweerd, C.**, Khan, S. A., Momen, M., San Jose, M., Rubinoff, D. 2019. Six years of fruit fly surveys in Bangladesh: a new species, 33 new country records and recent discovery of the highly invasive *Bactrocera carambolae* (Diptera: Tephritidae). *Zookeys* 109: 87–109 Aug 15 2019. DOI: <https://doi.org/10.3897/zookeys.876.38096>
29. Sohn, J.-C., **Doorenweerd, C.**, Nam, K. S., Choi, S.-W. 2019. New leaf-mine fossil from the Geumgwangdong Formation, Pohang Basin, South Korea, associates pygmy moths (Lepidoptera, Nepticulidae) with beech trees (Fagaceae, Fagus) in the Miocene. *Journal of Paleontology* 93(2): 337–342. DOI: <https://doi.org/10.1017/jpa.2018.83>
28. Breeschoten, T., **Doorenweerd, C.**, Tarasov, S., Vogler, A.P. 2019. Incorporating older literature into genomic studies: A response to Zunino & Halffter. *Molecular Phylogenetics and Evolution* 133: 164. DOI: <https://doi.org/10.1016/j.ympev.201901010>

27. **Dooreenweerd, C.**, Leblanc, L., Hsu, Y-F, Huang, C-L, Lin, Y-C, San Jose, M., Rubinoff, D. 2019. Taiwan's Dacini fruit flies: rare endemics and abundant pests, along altitudinal gradients. *Pacific Science* 74(1): 35–59. DOI: <https://doi.org/10.2984/73.1.3>
- 2018**
26. Reil, J. B., **Dooreenweerd, C.**, San Jose, M., Sim, S., Geib, S., Rubinoff, D. 2018. Transpacific coalescent pathways of coconut rhinoceros beetle biotypes: resistance to biological control catalyzes resurgence of an old pest. *Molecular Ecology* early online. DOI: <https://doi.org/10.1111/mec.14879>
 25. San Jose, M., **Dooreenweerd, C.**, Leblanc, L., Barr, N., Geib, S., Rubinoff, D. 2018. Tracking the origins of fly invasions: using mitochondrial haplotype diversity to identify potential source populations in two genetically intertwined fruit fly species (*Bactrocera carambolae* and *Bactrocera dorsalis*). *Journal of Economic Entomology* 111(6): 2914–2926 DOI: <https://doi.org/10.1093/jee/toy272>
 24. **Dooreenweerd, C.**, Leblanc, L. 2018. Unusual dark forms of the *Solanum* fruit fly *Bactrocera latifrons* (Hendel) in Hawaii (Tephritidae: Dacini). *Proceedings of the Hawaiian Entomological Society* 50: 17–23.
 23. Kirichenko, N., Triberti, P., Kobayashi, S., **Dooreenweerd, C.**, Ohshima, I., Huang, G.H., Wang, M., Magnoux, E., Lopez-Vaamonde, C. 2018. Systematics of *Phyllocnistis* leaf-mining moths (Lepidoptera, Gracillariidae) feeding on dogwood (*Cornus* spp.) in Northeast Asia, with the description of three new species. *Zookeys* 736: 79–118. DOI: <https://doi.org/10.3897/zookeys.736.20739>
 22. Kobayashi, S., John, C.A., Lopez-Vaamonde, C., **Dooreenweerd, C.**, Kawakita, A., Ohshima, I., Lees, D.C., Hanabergh, S., Kawahara, A.Y. 2018. Hawaiian *Philodoria* (Lepidoptera, Gracillariidae, Orniolininae) leaf mining moths on *Myrsine* (Primulaceae): two new species and biological data. *Zookeys* 773: 109–141. DOI: <https://doi.org/10.3897/zookeys.773.21690>
 21. van Nieukerken, E.J., Lees, D.C., **Dooreenweerd, C.**, Koster, J.C., Bryner, R., Scheurs, A., Timmermans, M.J.T.N., Sattler, K. 2018. Two European *Cornus* L. feeding leafmining moths, *Antispila petryi* Martini, 1899, sp. rev. and *A. treitschkiella* (Fischer von Röslerstamm, 1843) (Lepidoptera, Heliozelidae): an unjustified synonymy and overlooked range expansion. *Nota Lepidopterologica* 41(1): 39–86. DOI: <https://doi.org/10.3897/nl.41.22264>
 20. Milla, L., van Nieukerken, E.J., Vijverberg, R., **Dooreenweerd, C.**, Wilcox, S.A., Halsey, M., Young, D.A., Jones, T.M., Kallies, A., Hilton, D.J. 2018 A preliminary molecular phylogeny of shield-bearer moths (Lepidoptera: Heliozelidae) highlights rich undescribed diversity. *Molecular phylogenetics and evolution*, 120: 129–143. DOI: <https://doi.org/10.1016/j.ympev.2017.12.004>
 19. **Dooreenweerd, C.**, Leblanc, L., Norrbom, A.L., San Jose, M., Rubinoff, D. 2018. A global checklist of the 932 fruit fly species in the tribe Dacini (Diptera, Tephritidae). *Zookeys*, 730, 19–56. DOI: <https://doi.org/10.3897/zookeys.730.21786>
 18. San Jose, M., **Dooreenweerd, C.**, Leblanc, L., Barr, N., Geib, S., Rubinoff, D. 2018. Incongruence between molecules and morphology: A seven-gene phylogeny of Dacini fruit flies paves the way for reclassification (Diptera: Tephritidae). *Molecular Phylogenetics and Evolution* 121: 139–149. DOI: <https://doi.org/10.1016/j.ympev.2017.12.001>
- 2017**
17. **Dooreenweerd, C.**, van Nieukerken, E.J., Hoare, R. 2017. Phylogeny, classification and divergence times of pygmy leafmining moths (Lepidoptera: Nepticulidae): the earliest lepidopteran radiation on Angiosperms? *Systematic Entomology*, 42 (1), 267–287. DOI: <https://doi.org/10.1111/syen.12212>
- 2016**
16. van Nieukerken, E.J., **Dooreenweerd, C.**, & Hoare, R.J.B. 2016. Revised classification and catalogue of global Nepticulidae and Opostegidae (Lepidoptera: Nepticuloidea). *Zookeys* 628: 65–246. DOI: <https://doi.org/10.3897/zookeys.628.9799>
 15. Breeschoten, T., **Dooreenweerd, C.**, Tarasov, S., & Vogler, A.P. (2016) Phylogenetics and biogeography of the dung beetle genus *Onthophagus* inferred from mitochondrial genomes. *Molecular Phylogenetics and Evolution* 105: 86–95. DOI: <https://doi.org/10.1016/j.ympev.2016.08.016>

14. Jordan, M.P., Langmaid, J.R., & **Dooreenweerd, C.** 2016. Morphological difference between upperside and underside leaf-mining larvae of *Phyllocnistis unipunctella* (Stephens, 1834) (Lep.:Gracillariidae) and its changing phenology. *Entomologist's Record and Journal of Variation* 128: 121–127.
13. Mutanen, M., Kivela, S.M., Vos, R.A., **Dooreenweerd, C.**, Ratnasingham, S., Hausmann, A., Huemer, P., Dinca, V., van Nieukerken, E.J., Lopez-Vaamonde, C., Vila, R., Aarvik, L., Decaens, T., Efetov, K.A., Hebert, P.D., Johnsen, A., Karsholt, O., Pentinsaari, M., Rougerie, R., Segerer, A., Tarmann, G., Zahiri, R., & Godfray, H.C. 2016. Species-level Para- and Polyphyly in DNA Barcode Gene Trees: Strong Operational Bias in European Lepidoptera. *Systematic Biology* 65(6): 1024–1040. DOI: <https://doi.org/10.1093/sysbio/syw044>
12. van Nieukerken, E.J., **Dooreenweerd, C.**, Nishida, K., Snijders, C., & Hoare, R.J.B. 2016. New taxa, including two new genera show uniqueness of Neotropical Nepticulidae (Lepidoptera). *ZooKeys* 628: 1–63. DOI: <https://doi.org/10.3897/zookeys.628.9805>

2015

11. **Dooreenweerd, C.**, van Nieukerken, E.J., Menken, S.B.J. 2015. A global phylogeny of leafmining *Ectoedemia* moths (Lepidoptera: Nepticulidae): exploring host plant family shifts and allopatry as drivers of speciation. *PLoS One*, 10, e0119586. DOI: <https://doi.org/10.1371/journal.pone.0119586>
10. van Roosmalen, J.A.M. & **Dooreenweerd, C.** 2015. *Coleophora gryphipennella* (Hübner, 1796) (Lepidoptera, Coleophoridae) on *Fragaria vesca* L. (Rosaceae), a novel host, in the coastal dunes of The Netherlands. *Nota Lepidopterologica* 38, 147–155.
9. **Dooreenweerd, C.**, van Nieukerken, E.J., Sohn, J.-C., Labandeira, C.C. 2015. A revised checklist of Nepticulidae fossils (Lepidoptera) indicates an Early Cretaceous origin. *Zootaxa* 422, 87–101. DOI: <https://doi.org/10.11646/zootaxa.3963.3.2>

2014

8. **Dooreenweerd, C.**, As, B.v., & Scheffers, J. 2014. The explosive expansion of the lime leaf miner in Europe: invading the Netherlands? *Entomologische Berichten* 74, 111–114.
7. Trimpos, K.B., **Dooreenweerd, C.**, Kraaijeveld, K., Musters, C.J.M., Groen, N.M., de Knijff, P., Piersma, T., & de Snoo, G.R. 2014. Patterns in Nuclear and Mitochondrial DNA Reveal Historical and Recent Isolation in the Black-Tailed Godwit (*Limosa limosa*). *PLoS One*, 9(1), e83949. DOI: <https://doi.org/10.1371/journal.pone.0083949>
6. **Dooreenweerd, C.**, van Haren, M.M., Schermer, M., Pieterse, S., & van Nieukerken, E.J. 2014. A Linnaeus NG (TM) interactive key to the Lithocolletinae of North-West Europe aimed at accelerating the accumulation of reliable biodiversity data (Lepidoptera, Gracillariidae). *ZooKeys* 422, 87–101. DOI: <https://doi.org/10.3897/zookeys.422.7446>

2013

5. Groenen, F., Huisman, K.J.H., & **Dooreenweerd, C.** 2013. *Phalonidia manniana*, a complex of two species: *Ph. manniana* and *Ph. udana* (Lepidoptera: Tortricidae). *Entomologische Berichten* 73, 191–196.

2012

4. van Nieukerken, E.J., **Dooreenweerd, C.**, Stokvis, F.R., Groenenberg, D.S.J. 2012. DNA barcoding of the leaf-mining moth subgenus *Ectoedemia* s. str. (Lepidoptera: Nepticulidae) with COI and EF1- α : two are better than one in recognising cryptic species. *Contributions to Zoology* 81, 1–24.
3. van Nieukerken, E., Wagner, D., Baldessari, M., Mazzon, L., Angeli, G., Girolami, V., Duso, C., & **Dooreenweerd, C.** 2012. *Antispila oinophylla* new species (Lepidoptera, Heliozelidae), a new North American grapevine leafminer invading Italian vineyards: taxonomy, DNA barcodes and life cycle. *ZooKeys*, 170, 29–77. DOI: <https://doi.org/10.3897/zookeys.170.2617>
2. van Nieukerken, E.J., **Dooreenweerd, C.**, Ellis, W.N., Huisman, K.J., Koster, J.C., Mey, W., Muus, T.S.T., & Schreurs, A. 2012. *Bucculatrix ainsliella* Murtfeldt, a new North American invader already widespread on northern red oaks (*Quercus rubra*) in Western Europe (Bucculatricidae). *Nota Lepidopterologica* 35, 135–159.

1. van Nieukerken, E.J., Mutanen, M., & **Doorenweerd, C.** 2012. DNA barcoding resolves species complexes in *Stigmella salicis* and *S. aurella* species groups and shows additional cryptic speciation in *S. salicis* (Lepidoptera: Nepticulidae). *Entomologisk Tidskrift* 132, 235–255.

CONFERENCE PRESENTATIONS*

*Presentations outside conference setting omitted, such as for non-professional assemblies or (invited) seminars

2019

Oral presentation at the Evolution conference in Providence (USA: RI): **Unprecedented convergence in the world's largest mimicry complex yet.** C. Doorenweerd, M. San Jose & D. Rubinoff

2018

Poster presentation at the American Genetics Association conference in Hawaii: **Synomone driven evolutionary diversification of Dacini fruit flies?** C. Doorenweerd, M. San Jose, L. Leblanc, N. Barr, S. Geib, J. Dupuis, D. Rubinoff

Poster presentation at the Evolution symposium in Montpellier (FR): **Fossil calibrated phylogenies reveal patterns of diversification in leaf-mining micromoths.** C. Doorenweerd, C. Lopez-Vaamonde, F. Condamine, S.B.J. Menken, E.J. van Nieukerken

2017

Oral presentation at the Symposium on Insect-Plant Interactions in Tours (FR): **Host plant use and diversification in leaf-mining moths.** C. Doorenweerd, C. Lopez-Vaamonde, F. Condamine, S.B.J. Menken, E.J. van Nieukerken.

Invited speaker at retirement symposium for Dr. Erik van Nieukerken in Leiden (NL): **Is there a future for DNA Barcoding?** C. Doorenweerd

Oral presentation at the Entomological Society of America conference in Denver (USA): **A genetic approach for the systematics of Dacini fruit flies (Diptera: Tephritidae: Dacinae).** C. Doorenweerd, M. San Jose, L. Leblanc, D. Rubinoff

2016

Oral presentation at the Gracillariidae working group symposium in Hawaii: **Diversification and host relations in Lithocolletinae and Nepticulidae.** C. Doorenweerd, E. J. van Nieukerken, C. Lopez-Vaamonde, S.B.J. Menken.

2015

Organized conference session “Multitropic interactions” with Carlos-Lopez Vaamonde at the Societas Europaeas Lepidopterologica conference in Dresden (GER). Oral presentation: **Adaptive radiations and speciation rates in Holarctic lineages of leafmining Lepidoptera.** C. Doorenweerd, E.J. van Nieukerken & C. Lopez-Vaamonde

Invited speaker at retirement symposium for Dr. Sandrine Ulenberg in Leiden (NL): **Macro-evolutionary speciation patterns of leafmining moths.** C. Doorenweerd

2014

Oral presentation at the Gracillariidae working group symposium in Kozagawa (JPN): **Phylogenies, ecological and allopatric speciation, and leaf-mining moths.** C. Doorenweerd

2013

Oral presentation at the Societas Europaeas Lepidopterologica conference in Bulgaria: **Diet conservatism and distant host shifts allowed for global radiation in *Ectoedemia* sensu stricto (Nepticulidae).** C. Doorenweerd & E.J. van Nieukerken

2011

Oral presentation at the Societas Europaeas Lepidopterologica conference in Luxembourg: **Barcoding complete Lepidopteran fauna's: challenges and opportunities**. C. Doorenweerd & E.J. van Nieukerken

Poster presentation at the International DNA Barcoding conference in Adelaide (AUS): **DNA Barcoding at the NCB Naturalis**. B. van der Hoorn, C. Doorenweerd, F.R. Stokvis, O.F.J. Vorst, E.J. van Nieukerken, J. van Tol