

Curriculum Vitae

Basic Information

Name: **Adam P. Karremans**

Birthplace: Leiden, The Netherlands

Date: 21/12/1986

Nationality: Costa Rica and The Netherlands

Address: Lankester Botanical Garden, University of Costa Rica, P.O. Box 302-7050
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Education

PhD. in Science at Leiden University - Naturalis Biodiversity Center. Supervisors: Erik Smets; Barbara Gravendeel and Franco Pupulin (obtained November 2015).

Title: Systematic, phylogenetic and pollination studies of *Specklinia* (Orchidaceae).

<https://openaccess.leidenuniv.nl/handle/1887/36432>

MSc. in Plant Sciences with a specialty in Plant Breeding and Genetic Resources at Wageningen University and Research Center (obtained September 2010). Thesis: Phylogenetics of *Stelis* (Orchidaceae: Pleurothallidinae) and closely related genera, based on molecular data, morphological characteristics and geographical distribution in the Central American and Andean Cordilleras. <http://edepot.wur.nl/146921>

BSc. in Agronomy, with a specialty in Phytotechnology at the University of Costa Rica (obtained April 2008).

Carrier

- **Director**, Lankester Botanical Garden, University of Costa Rica (January 2019 to present).
- **Associate Professor**, University of Costa Rica (Lankester Botanical Garden, October 2010 to present / School of Biology, March 2018 to present).
- Coordinator of the Biodiversity Commission, University of Costa Rica (February 2018 to February 2022).
- Head of Research at Lankester Botanical Garden, University of Costa Rica (September 2014 to February 2016).
- Head of the Horticulture department at Lankester Botanical Garden, University of Costa Rica (January 2011 to March 2014).

Publications

h-index: 15 (calculated June 1st, 2022)

Google scholar citations: 1000 (calculated June 1st, 2022)

Orcid: 0000-0001-5987-7710

- Books (1):

Karremans, AP & Vieira-Uribe, S. 2020. Pleurothallids Neotropical Jewels - Volume I. Imprenta Mariscal, Quito, Ecuador. 320 pp.

- Book chapters (4):

Pupulin, F., & **Karremans, AP**. 2020. Macradenia R.Br. (550–551 pp.). In: Pupulin, F. (ed.) Vanishing Beauty. Native Costa Rican Orchids, Vol. 2: Lacaena–Pteroglossa. Oberreifenberg, Alemania, Koeltz Botanical Books.

Pupulin, F., & **Karremans, AP**. 2020. Platystele Schltr. (832–845 pp.). In: Pupulin, F. (ed.) Vanishing Beauty. Native Costa Rican Orchids, Vol. 2: Lacaena–Pteroglossa. Oberreifenberg, Alemania, Koeltz Botanical Books.

Bogarín, D., **Karremans, AP**, & Pupulin, F. 2020. Polystachya Hook (920–925 pp.). In: Pupulin, F. (ed.) Vanishing Beauty. Native Costa Rican Orchids, Vol. 2: Lacaena–Pteroglossa. Oberreifenberg, Alemania, Koeltz Botanical Books.

Pupulin, F., & **Karremans, AP**. 2020. Plectrophora Focke (848–849 pp.). In: Pupulin, F. (ed.) Vanishing Beauty. Native Costa Rican Orchids, Vol. 2: Lacaena–Pteroglossa. Oberreifenberg, Alemania, Koeltz Botanical Books.

- Articles Published in SCI indexed journals (41):

Pessoa, E. & **Karremans, A.P.** 2022. A New *Masdevallia* (Pleurothallidinae: Orchidaceae) from the White-Sand Forests of the Central Amazon, Brazil. *Systematic Botany* 47(1): 293-298.

Chambers, A., Cibrián-Jaramillo, A., **Karremans, A.P.**, Moreno Martinez, D., Hernandez-Hernandez, J., Brym, M., Resende, M.F.R., Moloney, R., Sierra, S.N., Hasing, T. Alomia, Y.A. & Hu, Y. 2021. Genotyping-By-Sequencing diversity analysis of international Vanilla collections uncovers hidden diversity and enables plant improvement. *Plant Science* 311: 111019. <https://doi.org/10.1016/j.plantsci.2021.111019>.

Karremans, A.P., Rojas-Alvarado, G., Bezerra-Silva, L.E., Flores-Rojas, J., Murillo,-Murillo, J.M., Romero-Ceciliano, M. & Segura-Bermúdez, O.A. 2021. Nomenclatural notes in the Pleurothallidinae (Orchidaceae): miscellaneous part II. *Phytotaxa* 496(2): 134-146.

Ponert, J. Portilla Andrade, M., **Karremans, A.P.**, Chumová, Z. & Trávníček. 2021. *Phytotaxa* 500(2): 108-116.

Rojas-Alvarado, G., Blanco, M.A. & **Karremans, A.P.** 2021. A taxonomic synopsis and morphological characterization of *Myoxanthus* (Orchidaceae: Pleurothallidinae). *Phytotaxa* 507(3): 211-258. <https://doi.org/10.11646/phytotaxa.507.3.1>

Watteyn, C., Scaccabarozzi, D., Muys, B., van der Schueren, N., van Meerbeek, K., Guizar Amador, M.F., Ackerman, J.D., Cedeño Fonseca, M., Chinchilla, I.F, Reubens, B., Pillco Huarcaya, R. Cozzolino, S. & **Karremans, A.P.** 2021. Trick or Treat? Pollinator attraction in *Vanilla pompona* (Orchidaceae). *Biotropica* <https://doi.org/10.1111/btp.13034>

Watteyn, C., Dejonghe, O., van Hoyweghen, K., Azofeifa Bolaños, J.B., **Karremans, A.P.**, Vranken, L., Reubens, B., Muys, B. & Maertens, M. 2021. Exploring farmer preferences towards innovations in the vanilla supply chain. *Journal of Cleaner Production* 330: 129831. <https://doi.org/10.1016/j.jclepro.2021.129831>

Karremans, AP, Salguero, G. Bogarín, D. Oses, L. & Cedeño-Fonseca, M. 2020. Illustrations and studies in Neotropical Orchidaceae: the *Specklinia brighamii* group (Pleurothallidinae) in Costa Rica. *Phytotaxa* 447(1): 016–030.

Rincón-González, M., Sierra-Ariza, M.A. & Karremans, A.P. 2020. A new species of *Acianthera* (Orchidaceae, Pleurothallidinae) from the Cordillera Central of Colombia. *Phytotaxa* 474(1): 093-098.

Rojas-Alvarado, G. & **Karremans, AP**. 2020. Revision of the Costa Rican species of *Myoxanthus* (Pleurothallidinae: Orchidaceae). *Phytotaxa* 448(1): 001-070.

Pupulin, F. & **Karremans, AP**. 2020. A new and unusual species of *Dichaea* (Orchidaceae: Zygopetalinae) from Costa Rica. *Blumea* 65: 61-64.

Watteyn, C., Fremout, T., **Karremans, AP**, Pillco Huarcaya, R., Azofeifa Bolaños, J.B., Reubens, B. & Muys, B. 2020. *Vanilla* distribution modeling for conservation and sustainable cultivation in a joint land sparing/sharing concept. *Ecosphere* 11(3):e03056. 10.1002/ecs2.3056

Bogarín, D., Pérez-Escobar, **Karremans, AP**, Fernández, M., Kruizinga, J., Pupulin, F., Smets, E. & Gravendeel, B. 2019. Phylogenetic comparative methods improve the selection of characters for generic delimitations in a hyperdiverse Neotropical orchid clade. *Scientific Reports* 9, 15098 (2019) doi:10.1038/s41598-019-51360-0

Karremans, AP, Aguilar-Sandí, D., Artavia-Solís, M., Cedeño-Fonseca, M., Chinchilla, I. F., Gil, K., Rojas-Alvarado, G., Solano-Guindon, N. & Villegas- Murillo, J. (2019) Nomenclatural notes in the Pleurothallidinae (Orchidaceae): miscellaneous. *Phytotaxa* 406(5), 259–270.

Thoerle, L. & **Karremans, AP**. 2019. The genus *Muscarella* (Orchidaceae): two new synonyms. *Phytotaxa* 395(1): 48-50.

Bogarín, D, A. **Karremans, AP** & Fernández, M. 2018. Genus-level taxonomical changes in the *Lepanthes* affinity (Orchidaceae, Pleurothallidinae). *Phytotaxa* 340 (2): 128-136.

Bogarín, D, Pérez-Escobar, OA, Groenenberg, D, Holland, SD, **Karremans, AP**, Lemmon, EM, Lemmon, AR, Pupulin, F, Smets, E, Gravendeel, B. 2018. Anchored hybrid enrichment generated nuclear, plastid and mitochondrial T markers resolve the *Lepanthes horrida* (Orchidaceae: Pleurothallidinae) species complex. *Molecular Phylogenetics and Evolution* 129(2018): 27-47.

Cedeño-Fonseca, M., **Karremans, AP** & O. O. Ortiz. 2018. *Monstera limitaris* (Araceae) a new species from the border between Costa Rica and Panama. *Phytotaxa* 376(1): 037–042.

Karremans, AP & Jiménez, JE. 2018. *Pleurothallis hawkingii* and *Pleurothallis vide-vallis* (Orchidaceae; Epidendroideae), two new species from Cordillera de Guanacaste in Costa Rica. *Phytotaxa* 349(2): 185-191.

Reina-Rodríguez, G.A. & **Karremans, AP**. 2018. A new *Platystele* (Orchidaceae, Pleurothallidinae) from the Western mountains of Colombia. *Phytotaxa* 375(3): 235–242.

Collantes, B. & **Karremans, AP**. 2017. An eccentric new species of *Stelis* from Peru (Orchidaceae: Pleurothallidinae). *Brittonia* 69(2): 218–221.

Pérez-Escobar, OA, Chomicki, G, Condamine, FL, **Karremans, AP**, Bogarín, D, Matzke, NJ, Silvestro, D & Antonelli, A. 2017. Recent origin and rapid speciation of Neotropical orchids in the world's richest plant biodiversity hotspot. *New Phytologist* 215: 891–905.

Wilson, M, Frank, GS, Jost, L, Pridgeon, AM, Vieira-Uribe, S & **Karremans, AP**. 2017. Phylogenetic analysis of *Andinia* (Pleurothallidinae; Orchidaceae) and a systematic re-circumscription of the genus. *Phytotaxa* 295(2): 101–131.

Bogarín, D & **Karremans, AP**. 2016. A new *Brachionidium* (Orchidaceae: Pleurothallidinae) from the first botanical expedition to the Volcán Cacho Negro, Costa Rica. *Systematic Botany* 41(4): 919-923.

Chiron, GR, **Karremans, AP** & van den Berg, C. 2016. Nomenclatural notes in the Pleurothallidinae (Orchidaceae): *Phloeophila*. *Phytotaxa* 270: 56–62.

Damián, A & **Karremans, AP**. 2016. A New Species of *Stelis* (Orchidaceae: Pleurothallidinae) from Peru. *Systematic Botany* 41(2): 293-297.

Díaz-Morales, M & **Karremans, AP**. 2016. *Epidendra Nova Talamancana*. *Phytotaxa* 272(4): 248-256.

Karremans, AP, Albetazzi, FJ, Bakker, FT, Bogarín, D, Eurlings, MCM, Pridgeon, A, Pupulin, F & Gravendeel, B. 2016. Phylogenetic reassessment of *Specklinia* and its allied genera in the Pleurothallidinae (Orchidaceae). *Phytotaxa* 272(1): 1-36.

Bogarín, D & **Karremans, AP**. 2015. *Prosthechea tinukiana* sp. nov. (Orchidaceae: Laeliinae): an update of the *Prosthechea prismatocarpa* complex. *Turk. J. Bot.* 39: 499-505.

Karremans, A.P., Bogarín, D, Pupulin, F, Luer, CA, & Gravendeel, B. 2015. The glandulous *Specklinia*: morphological convergence versus phylogenetic divergence. *Phytotaxa* 218(2): 101-127.

Karremans, A.P. & M. Rincón-González. 2015. Nomenclatural notes in the Pleurothallidinae (Orchidaceae): *Apoda-prorrepentia*. *Phytotaxa* 238(2): 174-182.

Karremans, A.P. 2015. Nomenclatural notes in the Pleurothallidinae (Orchidaceae): *Stelis*. *Phytotaxa* 203(3): 292-296.

Karremans, AP, Bogarín, D & Gravendeel, B. 2015. *Specklinia lugduno-batavae* (Pleurothallidinae: Orchidaceae), a new species in the *S. digitalis* group. *Blumea* 59: 180-184.

Karremans, A.P., Pupulin, F., Grimaldi, D., Beentjes, K.K., Butot, R., Fazzi, G.E., Kaspers, K., Kruizinga, J., Roessingh, P., Smets, E.F. & Gravendeel, B. 2015. Pollination of *Specklinia* by nectar-feeding *Drosophila*: the first reported case of a deceptive syndrome employing aggregation pheromones in Orchidaceae. *Annals of Botany* 116(3): 437-455.

Karremans, A.P., Pupulin, F., and Gravendeel, B. 2015. *Specklinia dunstervillei*, a new species long confused with *Specklinia endotrachys* (Orchidaceae: Pleurothallidinae). *PLoS One* 10(7): e0131971

Rodríguez-Martínez, L, Rincón-Useche, C & **Karremans, AP**. 2015. A New *Pleurothallis* from Colombia, with a Note on *Ancipitia* and *Colombiana* (Orchidaceae: Pleurothallidinae). *Systematic Botany* 40(1): 75-78.

Bogarín, D, **Karremans, AP**, Rincón, R & Gravendeel B. 2013. A new *Specklinia* (Orchidaceae: Pleurothallidinae) from Costa Rica and Panama. *Phytotaxa* 115(2): 31-41.

Karremans, AP & Bogarín, D. 2013. Three New Species of *Dracontia* (Pleurothallidinae, Orchidaceae) from Costa Rica. *Systematic Botany* 38(2): 307-315.

Karremans, AP, Bakker, FT, Pupulin, F, Solano-Gomez, R & Smulders, MJM. 2013. Phylogenetics of *Stelis* and closely related genera (Orchidaceae: Pleurothallidinae). *Plant Syst. Evol.* 29(1): 69-86.

Pupulin, F, **Karremans, AP** & Gravendeel, B. 2012. A reconsideration of the Empusellous species of *Specklinia* (Orchidaceae: Pleurothallidinae) in Costa Rica. *Phytotaxa* 63: 1-20.

Karremans, AP. 2009. *Prosthechea madrese*, a reconsideration of *Epidendrum madrese* Schltr. (Orchidaceae: Laeliinae). *Acta Botánica Mexicana* 88: 47-57.

- Articles in peer reviewed journals, not in SCI (39):

Chinchilla, I.F., **Karremans, A.P.**, & Blanco, M.A. 2022. A new species and a new record of *Malaxis* (Malaxidinae) from Costa Rica. *Lankesteriana* 33(1): 37-51.

Karremans, A.P. 2021. With great biodiversity comes great responsibility: the underestimated diversity of *Epidendrum* (Orchidaceae). *Harvard Papers in Botany* 26(2): 299-369. <https://doi.org/10.3100/hpib.v26iss2.2021.n1>

Karremans, AP, Chinchilla, I.F., Rojas-Alvarado, G., Cedeño-Fonseca, M. Damián, A. & Léotard, G. 2020. A reappraisal of Neotropical *Vanilla*. With a note on taxonomic inflation and the importance of alpha taxonomy in biological studies. *Lankesteriana* 20(3): 395-497.

Pupulin, F., Belfort-Oconitrillo, N., **Karremans, AP** & Bogarín, D. 2020. *Florae costaricensis subtribui Pleurothallidinis Prodromus* - Systematics of *Echinosepala* (Orchidaceae). *Harvard Papers in Botany* 25(2): 155-190.

Reina-Rodríguez, G.A., **Karremans, AP**, López-Machado, F. & Cruz-Salcedo, J. 2020. A new *Stelis* (Orchidaceae: Pleurothallidinae) from the Western Andes of Colombia. *Lankesteriana* 20(2): 151–158.

Bogarín, D., Fernández, F., **Karremans, AP**, Pupulin, F., Smets, E. & Gravendeel, B. 2019. Floral anatomy and evolution of pollination syndromes in *Lepanthes* and close relatives. In: A. M. Pridgeon & A. R. Arosemena (Eds.), Proceedings of the 22nd World Orchid Conference, vol. 1 (pp. 396–410). Guayaquil, Ecuador: Asociación Ecuatoriana de Orquideología.

Karremans, AP. 2019. To be or not to be a *Stelis*. *Lankesteriana* 19(3): 281-343.

Karremans, AP & Díaz-Morales, M. 2019. The Pleurothallidinae: extremely high speciation driven by pollinator adaptation. In: A. M. Pridgeon & A. R. Arosemena (Eds.), Proceedings of the 22nd World Orchid Conference, vol. 1 (pp. 363–388). Guayaquil, Ecuador: Asociación Ecuatoriana de Orquideología.

Karremans, AP & Lehmann, CP. 2018. A highly threatened new species of *Vanilla* from Costa Rica. *Lindleyana in Orchids (Bull. Amer. Orch. Soc.)* 87(4): 304–307.

Karremans, AP & Bogarín, D. 2017. Two novelties in *Platystele* (Orchidaceae: Pleurothallidinae) from Costa Rica. *Lankesteriana* 17(2): 215-221.

Karremans, AP & Davín, N. 2017. Genera Pleurothallidarum: The Era of Carl Luer. *Lankesteriana* 17(2): I-VIII.

Karremans, AP & Díaz-Morales, M. 2017. Novelties in Costa Rican *Stelis* (Orchidaceae: Pleurothallidinae): Two new species and a new record in the "Dracontia group". *Lankesteriana* 17(2): 193–202.

Karremans, AP, Rodríguez-Martínez, L & Rincón-Useche, C. 2017. Four new species of *Pleurothallis* (Orchidaceae: Pleurothallidinae) from the Valle del Cauca department in Colombia. *Lankesteriana* 17(2): 251-260.

Moreno, JS, Vieira-Uribe, S & **Karremans, AP**. 2017. A new species of *Lepanthes* (Orchidaceae: Pleurothallidinae) from Colombia with a large protruding column. *Lankesteriana* 17(2): 227-234.

Pupulin, F & **Karremans, AP**. 2017. *Horichia dressleri*. A new genus recorded for Costa Rica and a truly rare orchid? *Lindleyana in Orchids (Bull. Amer. Orch. Soc.)* 86(8): 610–617.

Pupulin, F, **Karremans, AP** & Belfort Oconitrillo, N, 2017. Two new species of *Echinosepala* (Orchidaceae: Pleurothallidinae). *Lankesteriana* 17(2): 285–304.

Rojas-Alvarado, G & **Karremans, AP**. 2017. Additions to the Costa Rican *Myoxanthus* (Orchidaceae: Pleurothallidinae). *Lankesteriana* 17(2): 203-214.

Vieira-Uribe, S. & **Karremans, AP**. 2017. A new species of *Andinia* subgen. *Brachycladium* (Orchidaceae: Pleurothallidinae) from Colombia. *Lankesteriana* 17(2): 311-314.

Karremans, AP. 2016. Genera Pleurothallidarum: an updated phylogenetic overview of Pleurothallidinae. *Lankesteriana* 16(2): 219-241.

Karremans, AP. 2016. Editorial: *Lankesteriana* a no impact journal... or is it?. *Lankesteriana* 16(1): I-III.

Karremans, AP, Bogarín, D, Díaz-Morales, M, Fernández, M, Oses, L & Pupulin, F. 2016. Phylogenetic reassessment of *Acianthera* (Orchidaceae: Pleurothallidinae). *Harvard Pap. Bot.* 21(2): 171-187.

Karremans, AP, van Heuven, B, Langelaan, R & Gravendeel, B. 2016. Documentation of floral secretory glands in Pleurothallidinae (Orchidaceae) using Scanning Electron Microscopy (SEM). *Bio-protocol* 6(22): e2021. DOI: 10.21769/BioProtoc.2021

Oses, L & **Karremans, AP**. 2016. A note on *Masdevallia zahlbruckneri* and *M. utriculata*. *Harvard Pap. Bot.* 21(2): 325-336.

Fernández, M, Bogarín, D, **Karremans, AP** & Jiménez, D. 2014. New species and records of Orchidaceae from Costa Rica III. *Lankesteriana* 13(3): 259-282.

Karremans AP. 2014. *Lankesteriana*, a new genus in the Pleurothallidinae (Orchidaceae). *Lankesteriana* 13(3): 319-332.

Bogarín, D & **Karremans, AP**. 2013. *Trichocentrum pupulinianum* (Orchidaceae). *Lindleyana in Orchids (West Palm Beach)* 82(2): 106–110.

Bogarín, D, Pupulin, F & **Karremans AP**. 2012. Three New *Lepanthes* (Orchidaceae: Pleurothallidinae) from South-East Costa Rica. *Lankesteriana* 12(2): 107-114.

Karremans AP. 2012. Illustrations and Studies in Neotropical Orchidaceae. 3. On the identity of *Dracontia pachyglossa* and *D. ramonensis*; with a new species, *D. lueriana* (Pleurothallidinae). *Ann. Naturhist. Mus. Wien, B.* 113: 119-132.

Karremans AP, D Bogarín, M Fernández, CM Smith & Blanco, MA. 2012. New species and records of Orchidaceae from Costa Rica. II. *Lankesteriana* 12(1): 19-51.

Karremans AP & Smith, CM. 2012. A note on genus *Dracontia* (Orchidaceae: Pleurothallidinae), with a new species. *Harvard Pap. Bot.* 17(1): 13-17.

Karremans, AP & Muñoz, M. 2011. *Pleurothallis silvae-pacis* (Orchidaceae: Pleurothallidinae): a new species found at the Bosque de Paz Biological Reserve in Costa Rica. *Orch. Rev.* 121: 155-159.

Karremans, AP & Hágsater, E. 2010. Confusion in *Epidendrum brenesi* Schltr., and a new Costa Rican species: *Epidendrum sotoanum* (Orchidaceae). *Lankesteriana* 9(3): 403-409.

Pupulin, F & **Karremans, AP**. 2010. *Crossoglossa sotoana* (Orchidaceae: Malaxideae), a new species honoring the late Mexican botanist, Miguel Ángel Soto Arenas. *Lankesteriana* 9(3): 443-446.

Pupulin, F & **Karremans, AP**. 2010. Two new species and a new record of *Epidendrum* (Orchidaceae: Laeliinae) from Costa Rica. *Selbyana* 30(2): 196.

Bogarín, D, **Karremans, AP** & Pupulin, F. 2008. New species and records of Orchidaceae from Costa Rica. *Lankesteriana* 8(2): 53-74.

Pupulin, F & **Karremans, AP**. 2008. The strange story of the two Hoffmann's *Epidendrum*s. *Lindleyana in Orchids* 77(6): 454-457.

Pupulin, F & **Karremans, AP**. 2008. The Orchid Pollinaria Collection at Lankester Botanical Garden. *Selbyana* 29(1): 69-86.

Pupulin, F, **Karremans, AP** & Merino, G. 2008. *Trichocentrum loyolicum*, a new species in the genus *Trichocentrum* s.s. *Harvard Pap. Bot.* 13(2): 219-222.

Pupulin, F & **Karremans, AP**. 2007. *Prosthechea ionophlebia* and *P. chacaoensis* two different species, but which is which? *Lindleyana in Orchids* 76(3): 202-208.

- Articles in other journals (16):

- Karremans, AP** & Strigari, S. 2021. The New Refugium Botanicum. *Vanilla costaricensis*. *Orchids (Bull. Amer. Orch. Soc.)* 90(10): 748–750.
- Pupulin, F., Bogarín, D. & **Karremans, AP**. 2020. Una nueva especie de *Cischweinfia* (Orchidaceae: Oncidiinae) de Costa Rica, con hábito y flores muy pequeñas. *Orquideología* 37(1): 4-26.
- Vieira-Uribe, S. & **Karremans, AP**. 2018. La *Specklinia* (Orchidaceae) con señuelo, una asombrosa nueva especie de los Andes occidentales en Colombia. *Orquideología* 32(2): 164–168.
- Pupulin, F., **Karremans, AP** & Strigari, S. 2017. The New Refugium Botanicum. *Ida (Sudamerlycaste) andreettae*. *Orchids (Bull. Amer. Orch. Soc.)* 86(7): 496–498.
- Bonilla Morales, MM, Aguirre Morales, AC, Mosquera Hernández, JJ & **Karremans, AP**. 2016. Distribution of *Platystele sylvestrei* (Orchidaceae: Pleurothallidinae): first records for Colombia. *Rev. Biodivers. Neotrop.* 6(2): 131-134.
- Díaz-Morales, M & **Karremans, AP**. 2016. The New Refugium Botanicum. *Specklinia endotrachys*. *Orchids* 85(5): 332-334.
- Karremans, AP** & Vieira-Uribe, S. 2016. *Andinia lueri*, una nueva especie confundida con *A. dactyla* (Orchidaceae: Pleurothallidinae). *Orquideología XXXIII*: 112-122.
- Bogarín, D., **Karremans, A.P.** & Muñoz, M. 2015. *Brachionium kirbyi*, a new species honoring the founder of the “Bosque de Paz” Orchid Project in Costa Rica. *Die Orchidee* 66(5): 404-409.
- Dressler, R.L. & **Karremans, A.P.** 2015. *Sobralia rogersiana*, un monstruo maravilloso. *Orquideología* 32(1): 30-37.
- Karremans, AP**. 2015. Visualizing Pleurothallids: *Lankesteriana*. *Lindleyana* in *Orchids (Bull. Amer. Orch. Soc.)* 84(5): 304-312.
- Pupulin, F., **AP Karremans** & S. Strigari. 2013. Taxonomie in Aquarell: die *Specklinia-endotrachys*-Gruppe, Teil 1. Taxonomy in watercolor: the *Specklinia endotrachys* group, part 1. *Die Orchidee (Hamburg)* 64(5): 392-399.
- Pupulin, F., **AP Karremans** & S. Strigari. 2013. Taxonomie in Aquarell: die *Specklinia-endotrachys*-Gruppe, Teil 2. Taxonomy in watercolor: the *Specklinia endotrachys* group, part 2. *Die Orchidee (Hamburg)* 64(6): 475-485.
- Fernández, M, **Karremans, AP** & Pupulin, F. 2011. Orchid Pollinaria up close and personal. *Orchids* 80: 362-363,
- Karremans, AP**. 2011. *Dracontia*, the little-known dragon orchids. *Orchids* 80(9): 560-566.
- Karremans, AP** & Bogarín, D. 2011. *Pleurothallis adventurae* (Orchidaceae: Pleurothallidinae), eine neue art aus einer unerforschten region in Costa Rica. *Orchideen J.* 18(3): 111-114.
- Bogarín, D & **Karremans, AP**. 2010. A new *Platystele* (Orchidaceae: Pleurothallidinae) from Central Costa Rica / Un nuevo *Platystele* (Orchidaceae: Pleurothallidinae) de la parte central de Costa Rica. *Orquideología* 27(2): 208-220.

Web Pages:

<https://www.adamkarremans.com/>

<http://www.epidendra.com/>

<http://www.lankesteriana.org/>

<http://www.speciesorchidacearum.org/>

Research Projects

At the University of Costa Rica (as head researcher only):

- 814-C2-601 Evolución y conservación de las estrechas redes ecológicas entre orquídeas y abejas: integración de la información en repositorios biológicos como herramienta diagnóstica para la identificación de orquídeas polinizadas por himenópteros. 2022-2024.
- 814-C2-048 Importancia de la polinización por moscas en Orchidaceae: biología reproductiva y ecología de polinización de *Dracula*, *Masdevallia* y grupos afines en Pleurothallidinae. 2022-2026.
- 814-C0-049 Diversidad genética y estructura clonal de las poblaciones silvestres de *Vanilla* en Costa Rica. 2020-2024.
- 814-B8-257 Uso del código de barras genético para la identificación de especies de Orchidaceae de Costa Rica. 2018-2022.
- 814-B8-256 Técnicas moleculares para resolver la sistemática de los géneros *Myoxanthus* y *Octomeria* (Orchidaceae) en Costa Rica. 2018-2022.
- 814-B5-A81 Estudios en polinización de Pleurothallidinae (Orchidaceae). 2016 to 2020.
- 814-B5-115 La flora de orquídeas del Monumento Nacional Guayabo, Turrialba, Costa Rica. 2015 to 2019.
- 814-B3-075 Taxonomía, filogenia molecular, aislamiento reproductivo y diferenciación de nichos de *Specklinia endotrachys*. 2013 to 2017.
- 814-B1-239 Filogenia molecular de las especies de Orchidaceae endémicas de Costa Rica. 2012-2015.

Conference Attendance

- 1st International Conference on Neotropical Orchidology (ICNO). San José, Costa Rica. May 2003. Passive participation.
- 3rd International Orchid Conservation Congress (IOCC) ; 2nd International Conference on Neotropical Orchidology (ICNO). San José, Costa Rica. March 2007. Passive participation.
- 2nd Scientific Conference on Andean Orchids (IISCAO). Loja, Ecuador. November 2007. Passive participation.
- 1st Scientific Conference on Orchid Conservation at the Machu Picchu Sanctuary. Machu Picchu, Perú. March 2011. Active participation.
- 4th Scientific Conference on Andean Orchids (IISCAO). Guayaquil, Ecuador. November 2012. Active participation.
- 31st New Phytologist Symposium. Orchid symbioses: models for evolutionary ecology. Calabria, Italy. Mayo 2013. Active participation.
- V Monocots Symposium: Orchid Relationships from species to subfamily. The Bronx, New York. Julio 2013. Active participation.
- Séptimo Congreso Colombiano de Botánica. Ibagué, Colombia. August 2013. Active participation.
- NERN Netherlands Annual Ecology Meeting 2014 (NAEM). Lunteren, The Netherlands. February 2014. Active participation.
- Primera Exposición Nacional de Orquídeas y Encuentro Académico: Bogotá Humana y florecida. Bogotá, Colombia. November 2014. Active participation.
- Octavo Congreso Colombiano de Botánica. Manizales, Colombia. August 2015. Active participation.
- 5th Scientific Conference on Andean Orchids (IISCAO). Cali, Colombia. November 2015. Active participation.
- XIX International Botanical Congress (IBC). Shenzhen, China. August 2017. Active participation.
- 22nd World Orchid Conference (WOC). Guayaquil, Ecuador. November 2017. Active participation.
- VI Monocots Symposium. Natal, Brasil. October 2018. Active participation.

- 7th International Orchid Conservation Congress (IOCC). Kew, Londres, Reino Unido. May 2019. Active participation.
- 6th Scientific Conference on Andean Orchids (IISCAO). Medellín, Colombia. August 2019. Active participation.
- II Congreso Internacional de Orquídeas, Biodiversidad y Educación. July 2020. Active participation.

Organization of Scientific Events

- Minisymposium: Animal-plant interactions: “polinización por insectos”. Universidad de Costa Rica, San José, Costa Rica. April 2018. Organizing committee.
- I Congreso Científico de Biodiversidad y Conservación (ConBio), 16-19 September 2021, San José, Costa Rica [Zoom]. Organizing committee.
- Monocots VII: To be held in Costa Rica in March 2024. Organizing committee.

Teaching

Courses:

- *Use and interpretation of the code of nomenclature for algae, fungi and plants*. Course for BSc. and MSc. students at the University of Costa Rica. 2018-II, 2020-II, 2022-II.
- *Plant Biosystematics*. University of Costa Rica. 2018-I.
- *General Biology*. University of Costa Rica. 2018-I.
- *Orchidology* Course for BSc. and MSc. students at the University of Costa Rica. 2015-I, 2016-I, 2017-I, 2019-I.
- *Techniques for documentation and scientific illustration of Orchidaceae*. International Workshop during the 5th Scientific Conference on Andean Orchids, in Cali, Colombia (November 2015).
- Invited lecturer for the *Research Methods* course given by Sergio González for BSc. and MSc. students at the University of Costa Rica (2015).

Supervision:

PhD.

- Charlotte Watteyn. Costa Rican *Vanilla*. Universidad de Leuven, Bélgica. 2017 to present. Thesis Co-supervisor.
- Shan Wong. Texas Tech. 2020 to present. Thesis Advisor.

MSc.

- Francisco Vargas Acuña (UCR-Biology School). 2021 to present. Thesis supervisor.
- Diana Molina-Ozuna (ECOSUR, México). Monitoreo y aprovechamiento de recursos vegetales de *Euglossa viridissima* Friese 1899 (Apidae; Euglossini) en diversos hábitats del Soconusco, Chiapas. 2021 to present.
- Carlos Cervantes (UCR-Biology School). Genética poblacional de *Vanilla planifolia* en el Caribe de Costa Rica. 2021 to present. Thesis Supervisor.
- Alejandra Serna (UCR-Biology School). Genética poblacional de *Vanilla odorata* y *V. pompona* en el Pacífico Sur de Costa Rica. 2021 to present. Thesis Supervisor.
- Karen Gil (UCR-Biology School). Interacciones insecto - planta en el mecanismo de polinización del género *Dracula* (Orchidaceae). 2017 to present. Thesis Supervisor.
- Isler Chinchilla (UCR-Biology School). Systematics and pollination of *Malaxis* (Orchidaceae). University of Costa Rica. 2015 to 2020. Thesis Advisor.
- Gustavo Rojas (UCR-Biology School). Systematics of *Myoxanthus* (Pleurothallidinae: Orchidaceae). University of Costa Rica. 2016 to 2020. Thesis Supervisor.
- Denyer Sánchez (UCR-Biology School). Pollination in *Masdevallia* (Orchidaceae). University of Costa Rica. 2015-2018. Thesis Supervisor.

BSc.

- Noelia Belfort Oconitrillo (UCR-Biology School). Mecanismo de polinización y estrategia reproductiva de *Masdevallia striatella* (Orchidaceae: Pleurothallidinae) en un bosque nuboso de Costa Rica. University of Costa Rica. 2020 to present. Thesis Supervisor.
- Mónica Alfaro (UCR-Biology School). Propuesta de Interpretación Ambiental para el Jardín Botánico Lankester dirigida hacia la conservación de la biodiversidad de plantas en Costa Rica y su relación con los Objetivos de Desarrollo Sostenible de las Naciones Unidas. 2019 to present. Thesis Advisor.
- Lizbeth Oses (UCR-Biology School). Systematics and phylogenetics of *Masdevallia* (Orchidaceae). University of Costa Rica. 2014-2017. Thesis Supervisor.
- Melissa Díaz Morales (UCR-Biology School). Pollination of *Phragmipedium* (Orchidaceae). University of Costa Rica. 2015-2017. Thesis Advisor.

Editorial Work

- SPECIES ORCHIDACEARUM. **Editor-in-Chief**. 2017 to present. Published by Lankester Botanical Garden, University of Costa Rica. <http://speciesorchidacearum.org/>
- PHYTOTAXA. **Section Editor**. From August 2018 to June 2022. <http://www.mapress.com/j/pt/>
- LANKESTERIANA, international journal on orchidology. **Managing Editor**. Published by Lankester Botanical Garden, University of Costa Rica. 2011-2018 <http://www.lankesteriana.org>
- ICONES ORCHIDACEARUM, MEXICO. **Editor**. Published by AMO, Mexico. 2011 to present.

Journal Review

- ACTA AGRONÓMICA; ACTA BOTANICA GALICA; ACTA BOTANICA MEXICANA; BLUMEA; BOTANICAL JOURNAL OF THE LINNEAN SOCIETY; BRITTONIA; ICONES ORCHIDACEARUM, MEXICO; LANKESTERIANA; NORDIC JOURNAL OF BOTANY; PEERJ; PESQUISA AGROPECUÁRIA TROPICAL; PHYTOTAXA; PLANT BIOLOGY; PLANT SYSTEMATICS AND EVOLUTION; PLOS ONE; PROTOPLASMA; REVISTA DE BIOLOGÍA TROPICAL; REVISTA PERUANA DE BIOLOGÍA; TAXON; TURKISH JOURNAL OF BOTANY; WEBBIA