

Curriculum Vitae

David Villalobos-Chaves

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Programa para la Conservación de los Murciélagos de Costa Rica

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Degrees

2016. MSc of Biology. Universidad de Costa Rica (UCR).

2015. Licenciatura in Biology. Universidad Nacional de Costa Rica (UNA).

2010. B.A. Biology. Universidad Nacional de Costa Rica (UNA).

Appointments

2021. Teaching Assistant. Biological Impacts of Climate Change (BIO315). University of Washington, Seattle, United States.

2020. Teaching Assistant. Foundation in Ecology (BIO356). University of Washington, Seattle, United States.

2020. Teaching Assistant. Introductory Biology Lab (BIO220). University of Washington, Seattle, United States.

2018. Course instructor. VHF telemetry applied to research and conservation. Universidad Nacional de San Agustín, Arequipa, Perú.

2017. Course instructor for the Harker School (California, EEUU). The scientific method, experiment design, and data analysis. Heredia, Costa Rica.

2017. Independent consultant. Biodiversity monitoring in wind projects. Eaton Power S.A., Guanacaste, Costa Rica.

2016. Course instructor. Methods and Applied Techniques for the Study of Rodents. Universidad de El Salvador, San Salvador, El Salvador.

2016. Instructor. General Zoology Lab. Universidad de Costa Rica, Costa Rica.

2016. Independent consultant. Biodiversity monitoring in wind projects. Tilawind Corporation S.A. Guanacaste, Costa Rica.

2014. Course instructor. Identification and Conservation of Neotropical Bats. Selva Verde Costa Rica Rainforest Lodge. Heredia, Costa Rica.

2014. Teaching assistant. Mammalogy. Universidad de Costa Rica, Costa Rica.

2013–2016. Independent consultant. Biodiversity monitoring in wind projects. Consorcio Eólico Chiripa S.A., Guanacaste, Costa Rica.

2013. Course instructor. Natural History of Mammals. Instituto Nacional de Biodiversidad, Heredia, Costa Rica.

2011–2016. Research assistant. Mammalogy collection. Museo de Zoología, Universidad de Costa Rica, Costa Rica.

2011–2013. Teaching assistant. General Biology Lab. Universidad de Costa Rica, Costa Rica.

Fellowships/Awards

2020. Boeing International Fellowship. Graduate School, University of Washington.

2020. WRF Hall International Endowed Fellowship. Department of Biology, University of Washington.
2019. Latin American Student Field Research Award. American Society of Mammalogists.
2019. Theodore Roosevelt Memorial Grant. American Museum of Natural History, Richard Gilder Graduate School.
2018. WRF Hall International Endowed Fellowship. Department of Biology, University of Washington.
2017. General Travel Assistance Scholarship. Conference attendance scholarship to the International Bio-Logging Symposium: Konstanz, Germany.
2017. Assistance Scholarship for scientific events. Conference attendance scholarship from the Red Latinoamericana de Ciencias Biológicas (Relab).
2014. Elisabeth Kalko Award from outstanding research. Red Latinoamericana para la Conservación de los Murciélagos.
2014. Rufford Award. Rufford Small Grants for Nature Conservation.
2013. BCI-RELCOM Award. Bat Conservation International-Red Latinoamericana para la Conservación de los Murciélagos.
2012. BCI-RELCOM Award. Bat Conservation International-Red Latinoamericana para la Conservación de los Murciélagos.

Publications

Peer-reviewed articles

- Salas-Solano, D., & **Villalobos-Chaves, D.** 2021. Frugivory and Seed predation of *Jacaratia spinosa* (Caricaceae) by Sumichrast's Vesper Rat, *Nyctomys sumichrasti* (Rodentia: Cricetidae). Mammalogy Notes. Accepted.
- Villalobos-Chaves, D.**, & Rodríguez-Herrera, B. 2021. Frugivorous bats promote non-endozoochoric seed dispersal and seedling establishment in a disturbed Neotropical dry forest. Journal of Mammalogy. Accepted.
- Gutiérrez, E.G., Vivas-Toro, I., Carmona-Ruíz, D., **Villalobos-Chaves, D.**, Rodríguez-Herrera, B., Del Real-Monroy, M., León-Avila, G., & Ortega, J. 2021. Socio-spatial organization, kinship, and paternity revealed with noninvasive microsatellites in the Honduran white bat (*Ectophylla alba*). Integrative Zoology. Accepted.
- Rodríguez-Girón, M., Girón, L., **Villalobos-Chaves, D.** & Rodríguez-Herrera, B. 2021. Preference and design variability on umbrella tents built by *Artibeus watsoni* on two sympatric *Carludovica* species (Cyclanthaceae) in Costa Rica. Acta Chiropterologica. Accepted.
- Villalobos-Chaves, D.**, Jiménez, J.E. & Acosta-Chaves, V. 2020. Assembling rodent's feeding links: Observation of Sumichrast's Vesper Rat, *Nyctomys sumichrasti* (Rodentia: Cricetidae), feeding on fruits of *Tabernaemontana glabra* (Apocynaceae). Food Webs. DOI: <https://doi.org/10.1016/j.fooweb.2020.e00156>
- Villalobos-Chaves, D.**, Melo, F.P.L. & Rodríguez-Herrera, B. 2020. Dispersal patterns of Neotropical large-seeded plant species and spatial movement behavior of a small frugivorous bat. Journal of Tropical Ecology. DOI: <https://doi.org/10.1017/S0266467420000036>
- Leiser-Miller, L.B., Kaliszewska, Z.A., **Villalobos-Chaves, D.** & Santana, S.E. 2019. A pygmy rice rat eats a peppery snack. Frontiers EcoPics. DOI: <https://doi.org/10.1002/fee.2096>
- Sotomayor-Bonilla, J., Moreira-Soto, A., Mendizabal, D., Soley-Guardia, M., Ramírez-Fernández, J.D., **Villalobos-Chaves, D.**, Niehaus, C., Gutiérrez-Espeleta, G., Rico-Chavez, O., Foley,

- J., Suzan, G. & Chaves, A. 2018. Diverse beta and gamma herpesviruses in Neotropical rodents from Costa Rica. *Journal of Wildlife Diseases*. 55 (3): 000–000. DOI: <https://doi.org/10.7589/2018-05-117>
- Alfaro-Lara, H., **Villalobos-Chaves, D.**, Castillo-Gómez, J.I., Zuñiga-Montero, A.F., & Pineda-Lizano, W. 2018. Rediscovery of *Furipterus horrens* (Chiroptera: Furipteridae) in Costa Rica. *Mammalia*. 83 (4): 352–356. DOI: <https://doi.org/10.1515/mammalia-2018-0066>
- Villalobos-Chaves, D.**, González-Quirós, L., Lara-Hernández, L.R. & Rodríguez-Herrera, B. 2018. Notes on the geographic range and distribution of two free-tailed bat species (Chiroptera, Molossidae) in Costa Rica. *Check List*. 14 (5): 805–810. DOI: <https://doi.org/10.15560/14.5.805>
- Acosta Chaves, V., & **Villalobos-Chaves, D.** 2018. Lo que el viento se llevó: ¿conocemos el impacto que producir energía eólica causa sobre los vertebrados voladores de Costa Rica?. *Revista de Ciencias Ambientales/Tropical Journal of Environmental Sciences*. 52 (1): 239–246. DOI: <https://doi.org/10.15359/rca.52-1.14>
- Villalobos-Chaves, D.**, Spinola-Parallada, M., Heer, K., Kalko, E.K.V. & Rodríguez-Herrera, B. 2017. Implications of a Specialized Diet on the Foraging Behavior of the Honduran white bat, *Ectophylla alba* (Chiroptera: Phyllostomidae). *Journal of Mammalogy*. 98 (4): 1193–1201. DOI: <https://doi.org/10.1093/jmammal/gyx044>
- Villalobos-Chaves, D.**, Vargas-Murillo, J., Rojas-Valerio, E., Keeley, B.W., & Rodríguez-Herrera, B. 2016. Understory bat roosts, availability, and occupation patterns in a Neotropical rainforest of Costa Rica. *Revista de Biología Tropical*. 64 (3): 1333–1343. DOI: <https://doi.org/10.15517/RBT.V64I3.21093>
- Granados, G., & **Villalobos-Chaves, D.** 2016. Field Observations of the Hairy-legged bat Vampire (*Diphylla ecaudata*) Feeding on a Native Bird in Costa Rica. *Bat Research News*. 57 (2): 11–13.
- Villalobos-Chaves, D.**, Padilla-Alvárez, S., & Rodríguez-Herrera, B. 2016. Seed predation by the wrinkle-faced bat *Centurio senex*: A new case of this unusual feeding strategy in Chiroptera. *Journal of Mammalogy*. 97 (3): 726–733. DOI: <https://doi.org/10.1093/jmammal/gyv222>
- Acosta Chaves, V., & **Villalobos-Chaves, D.** 2015. *Tantilla armillata*. Predation by a Central American Bark Scorpion (*Centruroides edwardsii*). *Mesoamerican Herpetology*. 2 (2): 202–203.
- Villalobos-Chaves, D.**, & Dick, C.W. 2014. Rediscovery of the Rare Tacarcunan Bat *Lasiurus castaneus* (Chiroptera: Vespertilionidae) in Costa Rica. *Ecotropica*. 20: 65–68.
- Rodríguez-Herrera, B., Ramírez-Fernández, J.D., **Villalobos-Chaves, D.**, & Sánchez, R. 2014. Actualización de la lista de especies de mamíferos vivientes de Costa Rica. *Mastozoología Neotropical*. 21 (2): 275–289.
- Villalobos-Chaves, D.**, Barrantes, G., Fuchs, E.J., & Rodríguez-Herrera, B. 2013. Canines as a measuring tool for leaf tent construction in *Dermanura watsoni*. *Acta Chiropterologica*. 15 (2): 441–449. DOI: <https://doi.org/10.3161/150811013X679062>
- Villalobos-Chaves, D.**, Rodríguez-Herrera, B., & Tschapka, M. 2013. First records of day roosts of the nectar-feeding bat *Lichonycteris obscura* (Phyllostomidae: Glossophaginae). *Caribbean Journal of Science*. 47 (2-3): 335–338. DOI: <https://doi.org/10.18475/cjos.v47i3.a21>

Books

Villalobos-Chaves, D., Ramírez-Fernández, J.D., Chacón-Madrigal, E., Lizano-Pineda, W. & Rodríguez-Herrera, B. 2016. Clave para la identificación de los roedores de Costa Rica. Sistema Editorial y de Difusión de la Investigación (SIEDIN). San José: Costa Rica. 37 pp.

Book chapters

Villalobos-Chaves, D., Bonaccorso, F., Rodríguez-Herrera, B., Cordero-Schmidt, E., Arias-Aguilar, A., & Todd, C. 2016. The influence of sex and reproductive status on foraging behavior and seed dispersal by *Uroderma convexum* (Chiroptera: Phyllostomidae). Pp. 281–301. In *Sociality in Bats* (J. Ortega, ed.). Berlin: Springer-Verlag.

Rodríguez-Herrera, B., **Villalobos-Chaves, D.,** Cordero, E., Arias, A., Ramírez-Fernández, J.D., & Sánchez, R. 2015. Programa para la Conservación de los Murciélagos de Costa Rica (PCMCR). Pp. 9–22. In *Estrategia centroamericana para la conservación de los murciélagos* (B. Rodríguez-Herrera & R. Sánchez, eds.). Editorial Universidad de Costa Rica. San José: Costa Rica.

Submitted, in preparation & ongoing

Rodríguez-Pinto, N.I., Díaz, D.R., Medina, C.E., **Villalobos-Chaves, D.,** Morales, J.A., Bocardo, E.F., & López, E. Home range size of *Myotis atacamensis* (Vespertilionidae) and *Amorphochilus schnablii* (Furipteridae) bats in coastal valleys from southern Peru. Submitted to *THERYA*.

Villalobos-Chaves, D., & Santana, S.E. Dental topography predicts feeding performance differences in a community of Neotropical free-tailed bats (Molossidae). Submitted to *Functional Ecology*.

Jiménez-Céspedes, A., Sandoval-Castro, I., **Villalobos-Chaves, D.** & Rodríguez-Herrera, B. Geothermal energy, and bats: Do artificial clearings on the forest affect the community composition of aerial insectivores in a geothermal project of Costa Rica?. In preparation.

Muñoz-López, M., **Villalobos-Chaves, D.,** & Rodríguez-Herrera, B. Spatial movement ecology of the Woolly Opossum (*Caluromys derbianus centralis*) in a Neotropical Rainforest of Costa Rica. In preparation.

Díaz-Morales, M., **Villalobos-Chaves, D.,** Hanson, P. & Karremans, A.P. Quick and dirty: pollination of *Brassia* (Orchidaceae) by spider-hunting wasps through speedy food-deception. Ongoing.

Villalobos-Chaves, D., Missagia, R. V., & Santana, S.E. Functional correlates of molar topography and the trophic diversification of akodontine rodents. Ongoing.

Villalobos-Chaves, D., Kenagy, G. J., & Santana, S.E. Ecomorphological diversity among sympatric Neotropical rodents. Ongoing.

Villalobos-Chaves, D., & Santana, S.E. Mechanics of bite force production and its relationship with diet in Neotropical rodents. Ongoing.

Oral and poster presentations at scientific meetings

2019. Oral presentation. Centennial Celebration and Ninety-Ninth Meeting of the American Society of Mammalogists, Washington DC, EEUU.

2017. Oral presentation. II Congreso Latinoamericano de Murciélagos, San Salvador, El Salvador.

2017. Poster presentation. The 6th International Bio-logging Science Symposium, Konstanz, Germany.
2015. Oral presentation. North American Symposium on Bat Research. Monterey, California, EEUU.
2013. Oral presentation. International Bat Research Conference, San José, Costa Rica.
2013. Oral presentation. I Congreso Latinoamericano de Murciélagos, Quito, Ecuador (Kalko award).

Synergistic Activities

Public outreach: Natural history and educational documentaries to demystify bats (Jeff Corwin show and Universidad de Costa Rica television channel).

Manuscript reviewer: Biotropica, International Journal of Biodiversity and Conservation, Journal of Mammalogy (2019), Journal of Bat Research & Conservation (2018), Revista de Biología Tropical, Mammalian Species (2019), Mammalia (2020-2021), CheckList (2021).