

CURRICULUM VITAE

Gerrit Jan Schipper III

Field Conservation Research Director
Arizona Center for Nature Conservation/Phoenix Zoo
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EDUCATION

<u>Institution</u>	<u>Degree</u>	<u>Year Granted</u>
Arizona State University/Phoenix Zoo	Postdoc	2017
University of Idaho/CATIE (Costa Rica)	Ph.D. Nat. Resources	2010
Western State College of Colorado	B.A. Biology	1995

PROFESSIONAL ORGANIZATIONS

American Society of Mammalogists (ASM)
Society for Conservation Biology (SCB)
The Wildlife Society (TWS)
International Canopy Network (ICaN)
Association of Zoos & Aquariums (AZA)

BOARD MEMBERSHIP and CHAIR

Chair of the IUCN SSC Small Carnivore Specialist Group (2013-2019)
Chair of the IUCN SSC Working Group on Biodiversity Offsets (2014-2018)
Sierra to Sea Institute (President, Chairman of the Board – 2012-2015)
TWS Biodiversity Working Group (Chair 2016-17)
TWS Wildlife & Habitat Restoration Working Group (2014-2020)
TWS Arizona Chapter (Historian 2014-2019)

PUBLICATIONS

Cove, M.V., Kays, R., Bontrager, H., Bresnan, C., Lasky, M., Frerichs, T., Klann, R., Lee Jr, T.E., Crockett, S.C., Crupi, A.P., Weiss, K.C., 2021, et.al incl. Schipper J. SNAPSHOT USA 2019: a coordinated national camera trap survey of the United States. *Ecology*. <https://doi.org/10.1002/ecy.3353>.

Gómez-Hoyos, D.A., Seisededos-de-Vergara, R., Schipper, J., Allard, R. and González-Maya, J.F. 2020. Potential effect of habitat disturbance on reproduction of the critically endangered harlequin frog *Atelopus varius* in Las Tablas, Costa Rica. *Animal Biodiversity and Conservation* 43.1

Thornton, D., Reyna, R., Perera-Romero, L., Radachowsky, J., Hidalgo-Mihart, M.G., Garcia, R., McNab, R., Mcloughlin, L., Foster, R., Harmsen, B., Moreira-Ramírez, J.F. et al. incl Schipper, J. 2020. Precipitous decline of white-lipped peccary populations in Mesoamerica. *Biological Conservation*, 242, p.108410.

Rorabaugh, J.C., Schipper, J., Avila-Villegas, S., Lamberton-Moreno, J.A. and Flood, T., 2020. Ecology of an ocelot population at the northern edge of the species' distribution in

northern Sonora, Mexico. *PeerJ*, 8, p.e8414. <https://peerj.com/articles/8414/>

González-Maya, J.F., Gómez-Hoyos, D.A., Seisedos-de-Vergara, R., Cruz-Lizano, I. and Schipper, J., 2019. Water-bug (Abedus sp.; Belostomatidae) predation on the Critically Endangered *Atelopus varius* (Bufonidae) at the Las Tablas Protected Zone, Costa Rica. *Acta Biológica Colombiana*, 24(2).

Schipper, J. and Rovero, F. 2018. Effective Biodiversity Assessment and Monitoring Encyclopedia of the Anthropocene, Volume 3: 297-304

González-Maya, J.F., Gómez-Hoyos, D.A., Cruz-Lizano, I. and Schipper, J., 2018. From hope to alert: demography of a remnant population of the Critically Endangered *Atelopus varius* from Costa Rica. *Studies on Neotropical Fauna and Environment*, pp.1-7.

Gómez-Hoyos, D.A., Escobar-Lasso, S., Brenes-Mora, E., Schipper, J. and González-Maya, J.F., 2018. Interaction behavior and vocalization of the baird's tapir *Tapirus bairdii* from Talamanca, Costa Rica. *Neotropical Biology and Conservation*, 13(1), pp.17-23.

González-Maya, J.F., Arias-Alzate, A., Granados-Peña, R., Gómez-Hoyos, D.A., Schipper, J., Majarrés-Morrón, M. and Majarrés-Pinzón, G., 2018. Margay also hide their spots: first records of melanistic *Leopardus wiedii* from Colombia and Costa Rica. *Revista Mexicana de Biodiversidad*, 89(2).

González-Maya JF, Gómez-Hoyos DA, Schipper J. 2017. First confirmed records of the bush dog (Carnivora: Canidae) for Costa Rica. *Neotropical Biology and Conservation* 12(3): 238-241.

González-Maya JF, Gómez-Hoyos DA, Gómez-Junco G, Schipper J & Zárrate-Charry DA. 2016. Connecting felid populations between La Amistad and Osa priority conservation areas in Costa Rica. *Wild Felid Monitor* 9 (2): 21.

Goettsch, B., Hilton-Taylor, C., Cruz-Piñón, G., Duffy, J.P., Frances, A., Hernández, H.M., Inger, R., Pollock, C., Schipper, J., Superina, M. and Taylor, N.P., 2015. High proportion of cactus species threatened with extinction. *Nature Plants*, 1, p.15142.

González-Maya JF & Schipper J. 2015. Small Carnivore Conservation in the Open Access, online era. *Small Carnivore Conservation* 52-53: 93-100.

Hess, S.C., Muise, J., and Schipper, J. 2015. Anatomy of an Eradication Effort: removing Hawaii's illegally introduced Axis deer. *Wildlife Professional* 9(1): 40-43.

Schipper, J. & Greenleaf, S. 2014. Advances in arboreal mammal research techniques for tropical rainforest canopy exploration. *Mammalogy Notes* 1(1):13-14.

González-Maya, JF, Schipper, J. & Castañeda F. 2014. A long term inventory of medium and large mammals with camera-traps in Las Tablas Protected Zone, Costa Rica. *Mammalogy Notes* 1(1):15-16.

Di Marco, M., Boitani, L., Mallon, D., Hoffmann, M., Iacucci, A., Meijaard, E., Visconti, P., Schipper, J. and Rondinini, C., 2014. A retrospective evaluation of the global decline of carnivores and ungulates. *Conservation Biology*, 28(4), pp.1109-1118.

Do Linh San, E., Ferguson, A.W., Belant, J.L., Shipper, J., Hoffmann, M., Gaubert, P., Angelici, F.M. & Somers, M.J. 2013. Conservation status, diversity and species richness

of small carnivores in Africa. *Small Carnivore Conservation* 48: 4-18.

González-Maya JF, Belant JL, Wyatt S, Schipper J, Cardenal J, Corrales D, Cruz-Lizano I, Hoepker A, Escobedo-Galván AH, Castañeda F, & Fischer A. 2013. Renewing hope: the rediscovery of *Atelopus varius* in Costa Rica. *Amphibia-Reptilia* 34: 573-578.

Amori, G. Chiozza, F., Patterson, B., Rondinini, C., Schipper, J. and Luiselli, L. 2012. Species richness and distribution of Neotropical rodents, with conservation implications. *Mammalia* 17(1): 1-19.

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Rondinini, C., Chiozza, F., Di Marco, M., Santulli, G., Baisero, D., Visconti, P., Hoffman, M., Schipper, J., Stuart, S., Falcucci, A., Maiorano, L. & Boitani, L. 2011 Global habitat suitability models of terrestrial mammals. *Philosophical Transactions of the Royal Society Series B* 1578, 2633-2641.

Hoffmann, M., Chanson, J., Cox, N., Lamoreux, J., Rodrigues, A.S.L., Schipper, J., & Stuart, S.N. (2011) The changing fates of the world's mammals. *Philosophical Transactions of the Royal Society B* 1579: 2598-2610.

Rodrigues, A.S.L., Grenyer, R., Baillie, J.E.M., Bininda-Emonds, O.R.P., Gittlemann, J.L., Hoffmann, M., Safi, K., Schipper, J., Stuart, N.S., Brooks, T.M. (2011) Complete, accurate, mammalian phylogenies aid conservation planning, but not much. *Philosophical Transactions of the Royal Society* 366 (1578): 2652-2660.

Hoffmann, M. (with over 150 Authors including Schipper, J.). 2010. The Impact of Conservation on the Status of the World's Vertebrates. *Science* 330, 1503-1509.

Gonzalez-Maya, J.F., Navarro-Arquez, E. and Schipper, J. 2010. Ocelots as prey items of jaguar: a case from Talamanca, Costa Rica. *Cat News* 53: 11-12.

Wright, S.J., Muller-Landau, H. and Schipper, J. 2009. The future of tropical species on a warmer planet. *Conservation Biology* 23: 1418–1426.

González-Maya, J.F, Schipper, J. and Rojas-Jiménez, K. 2009. Elevational distributions and abundance of Baird's Tapir (*Tapirus bairdii*) at different protected areas in Talamanca Region of Costa Rica. *Tapir Conservation* 18(1): 29-35.

Schipper, J., Eizirik, E., Helgen, K.M., González-Maya, J.F., Tsuchiya-Jerep, M. and Belant, J.L. 2009. Editorial: Small carnivores in the Americas: reflections, future research and conservation priorities. *Small Carnivore Conservation* 41:1-2.

Belant, J.L., Schipper, J. and Conroy, J. 2009. The conservation status of small carnivores in the Americas. *Small Carnivore Conservation* 41:3-8.

González-Maya, J.F, Schipper, J. and Benítez, A. 2009. Activity patterns and community ecology of small carnivores in the Talamanca region, Costa Rica. *Small Carnivore Conservation* 41:9-14.

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silvestre/New tools for wildlife research and conservation. Boletín Aluna 2(2): 1-5

Castellanos, A., Foerester, C., Lizcano, D.J., Naranjo, E., Cruz-Aldan, E., Lira-Torres, I., Samudio, R., Matola, S., Schipper, J. & Gonzalez-Maya, J. 2008. *Tapirus bairdii*. The IUCN Red List of Threatened Species 2008

de Oliveira, T., Schipper, J. & Gonzalez-Maya, J.F. 2008. *Leopardus tigrinus ssp. oncilla*. The IUCN Red List of Threatened Species 2008.

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Schipper, J., Woodman, N. & Timm, R. 2008. *Tylomys watsoni*. The IUCN Red List of Threatened Species 2008.

Schipper, J., Emmons, L., Woodman, N., Timm, R. & McCarthy, T. 2008. *Dasyprocta ruatanica*. The IUCN Red List of Threatened Species 2008.

Schipper, J., M. Hoffmann, J.W. Duckworth, and J. Conroy. 2008. The 2008 IUCN red listings of the world's small carnivores. Small Carnivore Conservation 39: 29-34.

Schipper, J., Chanson, J., Chiozza, F., Cox, N., Hoffmann, M., Katariya, V., Lamoreux, J., Rodrigues, A.S.L., Stuart, S.N., Temple, H.J., Baillie, J.E.M., Boitani, L., Lacher, T.E., Mittermeier, R.A., Smith, A.T., Absolon, D., Aguiar, J.M., Amori, G., Bakkour, N., Baldi, R.A., Berridge, R.J., Bielby, J., Black, P.A., Blanc, J.J., Brooks, T.M., Burton, J.A., Butynski, T.M., Catullo, G., Chapman, R., Cokeliss, Z., Collen, B., Conroy, J., Cooke, J.G., da Fonseca, G.A.B., Derocher, A.E., Dublin, H.T., Duckworth, J.W., Emmons, L., Emslie, R.H., Festa-Bianchet, M., Foster, M., Foster, S.N., Garshelis, D.L., Gates, C., Gimenez-Dixon, M., Gonzalez, S., Gonzalez-Maya, J.F., Good, T.C., Hammerson, G., Hammond, P.S., Happold, D., Happold, M., Hare, J., Harris, R.B., Hawkins, C.E., Haywood, M., Heaney, L., Hedges, S., Helgen, K.M., Hilton-Taylor, C., Hussain, S.A., Ishii, N., Jefferson, T.A., Jenkins, R.K.B., Johnston, C.H., Keith, M., Kingdon, J., Knox, D., Kovacs, K.M., Langhammer, P., Leus, K.M., Lewison, R., Lichtenstein, G., Lowry, L.F., Macavoy, Z., Mace, G.M., Mallon, D.P., Masi, M., McKnight, M.W., Medellín, R., Medici, P., Mills, G., Moehlman, P.D., Molur, S., Mora, A.E., Nowell, K., Oates, J.F., Olech, W., Oliver, W.L.R., Oprea, M., Patterson, B., Perrin, W.F., Polidoro, B.A., Pollock, C., Powel, A., Protas, Y., Racey, P.A., Ragle, J., Ramani, P., Rathbun, G., Reeves, R.R., Reilly, S.B., Reynolds III, J.E., Rondinini, C., Rulli, M., Rylands, A.B., Savini, S., Schank, C.J., Sechrest, W., Self-Sullivan, C., Shoemaker, A., Sillero-Zubiri, C., Silva, N., Smith, D.E., Srinivasulu, C., Stephenson, P.J., van Strien, N., Talukdar, B.K., Taylor, B.L., Timmins, R., Tirira, D.G., Tognelli, M.F., Tsytsulina, K., Veiga, L.M., Vié, J.-C., Williamson, L., Wyatt, S.A., Xie, Y. and Young, B.E. 2008. The status of the world's land and marine mammals: diversity, threat and knowledge. Science 322:225-230.

Schipper, J., Emmons, L., Woodman, N., Timm, R. & McCarthy, T. 2008. *Dasyprocta ruatanica*. The IUCN Red List of Threatened Species 2008: e.T6287A12597115.
<http://dx.doi.org/10.2305/IUCN.UK.2008.RLTS.T6287A12597115.en>

Castellanos, A., Foerester, C., Lizcano, D.J., Naranjo, E., Cruz-Aldan, E., Lira-Torres, I., Samudio, R., Matola, S., Schipper, J. & Gonzalez-Maya, J. 2008. *Tapirus bairdii*. The IUCN Red List of Threatened Species 2008: e.T21471A9284327.
<http://dx.doi.org/10.2305/IUCN.UK.2008.RLTS.T21471A9284327.en>

Schipper, J., Woodman, N. & Timm, R. 2008. *Tylomys watsoni*. The IUCN Red List of

Threatened Species 2008: e.T22576A9377595.

<http://dx.doi.org/10.2305/IUCN.UK.2008.RLTS.T22576A9377595.en>

de Oliveira, T., Schipper, J. & Gonzalez-Maya, J.F. 2008. *Leopardus tigrinus ssp. onchilla*. *The IUCN Red List of Threatened Species 2008*: e.T136876A4348020.

<http://dx.doi.org/10.2305/IUCN.UK.2008.RLTS.T136876A4348020.en>

Nowell, K., Schipper, J. and Hoffmann, M. 2007. Re-evaluation of the Felidae for the 2008 IUCN Red List. *Cat News* 47:5.

Schipper, J. 2007. Camera-trap avoidance by Kinkajous *Potos flavus*: rethinking the “non-invasive” paradigm. *Small Carnivore Conservation* 36: 38-41.

Schipper, J. 2005. Conservation planning in the Tropics: lessons learned from the Guianan Ecoregion Complex. *International Journal of Wilderness* 11(1): 26-30.

Schipper, G.J. 2004. Book Review: A scientist's coming of age in the computerized era. *BioScience*. 54(7). 785-786.

Rodrigues, A.S.L., S.J. Andelman, M.I. Bakarr, L. Boitani, T.M. Brooks, R.M. Cowling, L.D.C. Fishpool, G.A.B. Fonseca, K.J. Gaston, M. Hoffman, J. Long, P.A. Marquet, J.D. Pilgrim, R.L. Pressey, J. Schipper, W. Sechrest, S.N. Stuart, L.G. Underhill, R.W. Waller, M.E.J. Watts, Y. Xie. 2004. Global gap analysis – priority regions for expanding the global protected area network. *BioScience* 54(12).

Rodrigues, A.S.L., S.J. Andelman, M.I. Bakarr, L. Boitani, T.M. Brooks, R.M. Cowling, L.D.C. Fishpool, G.A.B. Fonseca, K.J. Gaston, M. Hoffman, J. Long, P.A. Marquet, J.D. Pilgrim, R.L. Pressey, J. Schipper, W. Sechrest, S.N. Stuart, L.G. Underhill, R.W. Waller, M.E.J. Watts, Y. Xie. 2004. Effectiveness of the global protected area network in representing species diversity. *Nature* 428(8). 640-643.

Books/Chapters:

Schipper, J. & Rovero, F. *Effective Biodiversity Assessment and Monitoring* (submitted). *Encyclopedia of the Anthropocene*. Elsevier Press.

González-Maya JF, Bustamante A, Moreno R, Salom-Pérez R, Tavares R & Schipper J. 2016. Estado de conservación y prioridades para el jaguar en Costa Rica. Pp. 184-210 En: Medellín R, Chávez C, de la Torre A, Zarza H & Ceballos G. (Comp.) *El Jaguar en el Siglo XXI: la perspectiva continental*. Fondo de Cultura Económica. México, México.

Zárrate Charry D, González-Maya JF & Schipper J. 2013. Santa Marta Montane Forests pp 1094-1095 In: Howarth R.W. (ed) *Biomes and Ecosystems. An Encyclopedia*. Golson media, Salem Press, US.

González-Maya JF, Schipper J & Hoepker A. 2013. Talamancan montane forests pp 1203-1205 In: Howarth R.W. (ed) *Biomes and Ecosystems. An Encyclopedia*. Golson media, Salem Press, US.

Schipper J & González-Maya JF. 2013. Fernando de Noronha Archipelago pp 567-568 In: Howarth R.W. (ed) *Biomes and Ecosystems. An Encyclopedia*. Golson media, Salem Press, US.

Schipper J & González-Maya JF. 2013. Sierra Madre Pine-Oak Forests pp 1141-1142 In:

Howarth R.W. (ed) Biomes and Ecosystems. An Encyclopedia. Golson media, Salem Press, US.

Schipper J & González-Maya JF. 2013. Magellanic Subpolar Forests pp 790-791 In: Howarth R.W. (ed) Biomes and Ecosystems. An Encyclopedia. Golson media, Salem Press, US.

González-Maya JF & Schipper J. 2013. Central American Atlantic Moist Forests pp 437-438 In: Howarth R.W. (ed) Biomes and Ecosystems. An Encyclopedia. Golson media, Salem Press, US.

González-Maya JF & Schipper J. 2013. Central American Montane Forests pp 439-440 In: Howarth R.W. (ed) Biomes and Ecosystems. An Encyclopedia. Golson media, Salem Press, US.

González-Maya JF, Cepeda A & Schipper J. 2013. Río Platano pp 1070-1071 In: Howarth R.W. (ed) Biomes and Ecosystems. An Encyclopedia. Golson media, Salem Press, US.

González-Maya JF, Cepeda A, Zárrate-Charry D & Schipper J. 2013. San Andres Archipelago Coral Reef pp 1094-1095 In: Howarth R.W. (ed) Biomes and Ecosystems. An Encyclopedia. Golson media, Salem Press, US.

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González-Maya, J., Schipper, J, Finegan, B. 2012. Ecología y conservación del Jaguar en Talamanca, Costa Rica: herramientas de planificación a escala regional. Editorial Académica Española.

Schipper, J., G. Clarke and T. Allnutt. 2007. Conservation planning in a tropical wilderness: opportunities and threats in the Guianan Ecoregion Complex. Pages 218-226 in Watson, Alan; Sproull, Janet; Dean, Liese, comps. 2007. Science and stewardship to protect and sustain wilderness values: Eighth World Wilderness Congress; September 30-October 6, 2005; Anchorage, AK. Proceedings RMRS-P-49. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 581.

González-Maya, J., Finegan, B., Schipper, J. & Casanoves, F. 2007. Densidad absoluta y conservación de jaguares en Talamanca, Costa Rica. Serie Técnica. The Nature Conservancy. San José, Costa Rica. 49 p. ISBN: 978-9968-543-01-9 (Absolute density and conservation of jaguars in Talamanca, Costa Rica)

González-Maya, J., Finegan, B., Schipper, J. 2007. Conservación de jaguares y sus presas en Talamanca: estado de conocimiento prioridades y acciones. The Nature Conservancy. San José, Costa Rica. 8p. ISSN: 1659-3499(Jaguar and prey conservation in Talamanca: knowledge status, priorities and actions).

Scott, J.M. and Schipper, J. 2006. Gap Analysis: a spatial tool for conservation planning. Pp: 518-519 in Groom, M., Meffe, G.K., and Carroll, C.R. (eds.) Principles of Conservation Biology (3rd Edition). Sinauer Associates, Inc., Massachusetts.

Mittermeier, R., J. Schipper, G. Davidse, P. Koleček, J. Soberon, M. Ramirez, B. Goettsch, and C.G. Mittermeier. 2005. Mesoamerica. In Hotspots Revisited, Mittermeier, R. A., Robles-Gil, P., Hoffmann, M., Pilgrim, J., Brooks, T., Mittermeier, C. G., Lamoreux, J., and

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Burgess, N., J. D'Amico-Hales, E. Underwood, E. Dinerstein, D. Olson, I. Itoua, J. Schipper, T. Ricketts, and K. Newman. 2004. Terrestrial ecoregions of Africa: a conservation assessment. Island Press, Washington, DC, USA.

Rodrigues, A.S.L., S.J. Andelman, M.I. Bakarr, L. Boitani, T.M. Brooks, R.M. Cowling, L.D.C. Fishpool, G.A.B. Fonseca, K.J. Gaston, M. Hoffman, J. Long, P.A. Marquet, J.D. Pilgrim, R.L. Pressey, J. Schipper, W. Sechrest, S.N. Stuart, L.G. Underhill, R.W. Waller, M.E.J. Watts, Y. Xie. 2003. Global Gap Analysis: towards a representative network of protected areas. *Advances in Applied Biodiversity Science* 5. Washington DC. Conservation International.

Published Proceedings:

Do Linh San, E., Ferguson, A.W., Belant, J.L., Shipper, J., Hoffmann, M., Gaubert, P., Angelici, F.M. & Somers, M.J. (2013). Conservation status, diversity and species richness of small carnivores in Africa. Oral presentation at the 2013 Symposium of the Southern African Wildlife Management Association (Skukuza, South Africa, September 2013).

Do Linh San, E., Ferguson, A.W., Belant, J.L., Shipper, J., Hoffmann, M., Gaubert, P., Angelici, F.M. & Somers, M.J. (2013). The conservation status of small carnivores in Africa. Oral presentation at the 2013 Annual Symposium of the Zoological Society of Southern Africa (Tshipise, South Africa, July 2013).

Schipper, J., L. Berner, and P. Else. 2011. Mapping and Control Prioritization of the Invasive Albizia Tree (*Falcataria moluccana*) in North Hilo, Hawai'i. Hawai'i Conservation Congress. August 2-4, Honolulu, Hawai'i.

Schipper, J., L. Boitani & C. Rondonini. 2008. The Status of the Worlds Mammals. World Conservation Congress. October.

Gonzalez-Maya, J.F, Zarrate, D, Schipper, J. & Perilla, C. 2008. Wild Felids densities in mountain ecosystems of Costa Rica: differential abundances and methodological issues. International Zoology Congress Proceedings. Paris, France.

Schipper, J., González-Maya, J. & Srbeck, A. 2007. Understanding the effect of study design on estimates of species density: camera-trapping jaguar *Panthera onca* and their prey. Proceedings Felid Biology and Conservation Conference: an international conference. Oxford, UK.

González-Maya, J., Schipper, J., Finegan, B. 2007. Densidad del Jaguar (*Panthera onca*) en la región de Talamanca: estimación y conservación. XI Congreso Sociedad mesoamericana para la Biología y la Conservación. Morelos, México. *Mesoamericana* 11 (3): 101

González-Maya, J., Navarro-Arquez, E., Schipper, J. & Finegan, B. 2007. Densidad de pumas en Talamanca: hábitats de Montaña, estimación y conservación de grandes felinos. *Mesoamericana* 11 (3): 102. (Puma densities in Talamanca: mountain habitats, estimation and big felids conservation)

Benítez, A., González-Maya, J. & Schipper, J. 2007. Patrones de Actividad de mamíferos neotropicales de montaña: patrones, usos y segregación de hábitat. *Mesoamericana* 11(3): 101 (Neo-tropical mountain mammals activity patterns: habitat use and

segregation)

González-Maya, J. & Schipper, J. 2006. Calculando el uso de hábitat en hábitats de montaña: efectos de elevación y pendiente sobre jaguar y sus presas en Talamanca, Costa Rica. I Congreso Suramericano de Mastozoología. Gramado, Brasil. (Calculating habitat use in mountain habitats: elevation and slope effects over jaguar and prey in Talamanca, Costa Rica)

González-Maya, J. & Schipper, J. 2006. Evaluando la distribución en áreas de montaña: distribución altitudinal de jaguares y presas y conservación en la región de Talamanca, Costa Rica. I Simposio Mesoamericano de Jaguar. Antigua, Guatemala. Mesoamericana 10(3). (Evaluating the distribution in mountain habitats: jaguar and prey elevational distribution and conservation in Talamanca region, Costa Rica)

Schipper, J., Scott, M., Carrillo, E. 2005. Return to Isla Talamanca? Landscape constraints to long-term species persistence in Talamanca eco-region (Costa Rica-Panamá): a conservation assessment using jaguar and their prey. 8th World Wilderness Congress. Alaska, US.

Schipper, J., Scott, M., Carrillo, E., Bosque-Perez, N., Harvey, C., Waitts, L. 2005. Habitat-based conservation planning in Talamanca (Costa Rica): a survey and assessment of neotropical felids and their prey. IGERT 2005 Annual Meeting, CATIE, Costa Rica.

Clarke, G., Schipper, J., Allnut, T. and S. Palminteri. Strategic conservation planning in the Guianan ecoregion complex: using spatial decision support software and expert opinion to identify high-conservation value landscapes. Proceedings: Association for Tropical Biology Conference, Miami, Florida, July 2004.

Schipper, J. and S.S. Greenleaf. 1997. Preliminary study of small nocturnal mammals in the canopy of the tropical rainforest, Rio Molinete, Costa Rica. Proceedings: Assoc. Tropical Biology: Trop. Cons. Conference, San Jose, Costa Rica.

CONSULTING

Wildlife Insights (2018-19)

IUCN Policy Advisory Group: Mitigation hierarchy and biodiversity offsets (2014-16).

Camera trap species taxonomic validation (2014). Tropical Ecology Assessment and Monitoring (TEAM)

Lanai Island Ungulate Assessment (2013) with Axis Deer Institute.

Molokai Island Ungulate Assessment (2012) with Axis Deer Institute.

Maryland Department of Natural Resources (1998), Serpentine Pine Barrens Restoration.

SELECTED FELLOWSHIPS AND GRANTS

Schipper, J. 2020. Panthera Small Cat Award. Ocelots on the border, \$9,000

Schipper, J. 2020. USFWS Latin America Conservation Grant. Jaguar antipoaching acoustics. \$196,000

Schipper, J. 2015. United Parcel Service Award (via Phoenix Zoo). US\$7,000.

Schipper, J. 2015. Salt River Pima Maricopa Indian Community Grant (via the Phoenix Zoo). US\$20,000.

Schipper, J. 2014. Salt River Pima Maricopa Indian Community Grant (via the Phoenix Zoo). US\$40,000.

Schipper, J., González-Maya, J. and Polidoro, B. 2012-2013. Setting conservation priorities for species recovery in Santa Marta, Colombia and Talamanca, Costa Rica (Sierra to Sea Institute). Mikelberg Foundation. US\$100,000.

Schipper, J. and Duffy, D. 2012. Detection and Control of Invasive Species on the Island of Hawaii. Hawaii Invasive Species Council, State of Hawaii. US\$472,490.

Schipper, J. and Duffy, D. 2011. Invasive species impacts on endangered species outreach and education, Island of Hawaii. State of Hawaii General Funds. US\$100,000

Schipper, J., Duffy, D. 2011. In support of Big Island Invasive Species Early Detection, Response and Control Big Island Invasive Species Committee. US Fish and Wildlife Service US. \$50,000.

Schipper, J., Muise, J. and Duffy, D. 2011. Early detection and control of Axis deer (*Axis axis*) on the Big Island. US Fish and Wildlife Service. US\$80,000.

Schipper, J. and Duffy, D. 2010. Containment of *Rauvolfia vomitoria*, Poison Devil's Pepper, on private lands through control, monitoring, partnership, and public outreach. US Forest Service. US\$269,000.

González-Maya, J. and Schipper, J. 2010. Phylogenetics of *Oncilla*, northern disjunct population. Panthera. US\$5,000.

Schipper, J. 2004. Conservation of jaguar and community education in the Talamancas (ProCAT). Jaguar/Ford Motor Company Conservation Award. US\$15,000.

Schipper, J. 2001-2004. IGERT Doctoral Fellowship – University of Idaho & CATIE. National Science Foundation. US\$120,000.

EXPEDITIONS

Wildlife and habitat survey of the Chirripo Massif, Costa Rica. (February, 2009).

TEAM camera trap expedition: protocol evaluation in Manuas, Brazil. (July, 2007).

Trans-Talamanca Expedition: wildlife and habitat ecology survey from the Pacific coast to the Caribbean across Costa Rica's Talamanca Mountains (April 2004)

Rivers of the Guianas: Tapanahoni Expedition. Wildlife trade and use by Amerindians of southern Suriname. WWF-CSP with WWF-Guianas. (October - November 2002)

Mammal survey of Brownsberg Nature Park, Suriname. Collecting expedition with Royal Ontario Museum. (April 2002).

Canopy survey: the epiphytes and small mammals of the lowland rainforests, Caribbean Slope, Costa Rica. (Fall 1995-Spring 1997).

Use of Geographical Information Systems in monitoring sea-level fluctuations and avian extinction's in Florida over the past 2.5 million years. (Spring 1995). Research Assistantship.

Preliminary study of small nocturnal mammals in the canopy of the tropical rainforest, Rio Molinete, Costa Rica. (Summer 1994).

WORK EXPERIENCE

Field Conservation Research Director, 01/2017 to Present
Arizona Center for Nature Conservation/Phoenix Zoo
Phoenix, AZ, USA

Conservation Research Post-doctoral Fellow, 01/2015 to 01/2017.
Arizona State University & The Phoenix Zoo
Tempe, Arizona, USA

Arizona State University (ASU) – New College, 08/2012 to 01/01/2014
Affiliate Faculty (lecturer), part time
Glendale, Arizona, USA

Sierra to Sea Institute (S2S), 09/2010 to Present (unpaid position)
Founder, President and Chairman of the Board
Zona Sur, Coto Brus, Costa Rica

Research Corporation of the University of Hawai'i (RCUH), 3/2010 to 6/2012
Manager, Big Island Invasive Species Committee
Hilo, Hawai'i USA

Conservation International (CI), 9/2007 to 2/2010
Director, Global Mammal Assessment
Arlington Virginia USA

ProCAT, 7/2004 -to2015
Costa Rica Founder and Director
Finca Las Alturas Las Alturas, Coto-Brus, Puntarenas, Costa Rica

University of Virginia, 8/2006 to 8/2007
Coordinator, Global Mammal Assessment
Charlottesville Virginia USA

University of Idaho 1/2003 to 1/2006
NSF IGERT Doctoral Fellow
Moscow Idaho USA

World Wildlife Fund 10/2000 to 1/2003
Conservation Scientist
Washington DC, USA

Caribbean Conservation Corporation 11/1995 - 6/1997
Resident Program Coordinator and Naturalist
Tortuguero, Costa Rica

Additional Education (non degree)

University of Florida
Gainesville, Florida US
Post Baccalaureate – 2000-2001

School for Field Studies, Cornell University
Ithaca, New York US
Fall 1992. The Centre for Rainforest Studies, Queensland, Australia
Spring 1993, Center for Sustainable Development Studies, Costa Rica

Shoals Marine Biological Laboratory, Northeastern University

Isle of Shoals, Maine US
Summer 1991, Marine Pollution Laboratory

Job Related Training:

PADI Rescue Diver (since 2018)
PADI Deep Diver (since 2018)
PADI Current Diver (since 2018)
B3 Helicopter and Aviation Safety Certified (2010), Sling-load certified (2010)
Certificate of Excellence as a Commercial SCUBA Diver (1999)
PADI Advanced SCUBA Diver (since 1994)
First AID/CPR (since 1992)
Virginia Aquarium and Marine Science Center Stranding Team (9/2007 to 01/2010)

Language Proficiency:

Spanish – fluent
Portuguese – good

AWARDS AND RECOGNITIONS

William T. Hornaday Award for conservation of mammals. 2009-2010 American Society of Mammalogists.

Sigma-Xi Member, 2004 to Present, University of Idaho.

Dept. of Fish and Wildlife Representative to the Graduate Student Association UI, 2003-2004

Certificate of Excellence as a Commercial SCUBA Diver ~ Annapolis, Maryland, July 1998

John C. Johnson Distinct Award ~ Best Presentation of Research, 1995

Laupahoehoe Advisor Council (Hawaii Dept Forestry and Wildlife), Member: Research.

IUCN Species Survival Commission:

Small Carnivore Specialist Group (Co-Chair, 2013-2019)
Cat Specialist Group (Member)
Lagomorph Specialist Group (Member)
Tapir Specialist Group (Affiliate)
Conservation Corridor Specialist Group (member)

Editorial positions:

Small Carnivore Conservation (Associate Editor 2004 – present), Editor in Chief (2015-2019)
Revista Latinoamericana de Conservación - Latin American Journal of Conservation (2008 – 2019)
THERYA (Journal of Mexican Mammalogical Society) (2010-2013)