

## Dr. Stefan Schnitzer's Publications

- 2019**      **Schnitzer, S.A.** & GMF van der Heijden (2019). Lianas have a seasonal growth advantage over co-occurring trees. *Ecology*, in press.
- van der Heijden, G.M.F., J.S. Powers, **S.A. Schnitzer** (2019). No seasonal differences in liana effect on forest-level tree biomass growth in a liana removal experiment in Panama. *Journal of Ecology*, in press.
- van der Sande, M, L. Poorter, **S.A. Schnitzer**, B.M. Engelbrecht, L. Markesteijn (2019). The hydraulic efficiency – safety trade-off differs between lianas and trees. *Ecology*, in press.
- 2018**      **Schnitzer, S.A.** (2018). Testing ecological theory with lianas. Tansley Review, *New Phytologist*, **220**: 366-380.
- Garcia-Leon, M.M., L. Martinez-Izquierdo, J.S. Powers, **S.A. Schnitzer** (2018). Lianas reduce community-level canopy tree reproduction in a Panamanian forest. *Journal of Ecology* **106**: 737 - 745.
- Visser, M.D., **S.A. Schnitzer**, S.J. Wright, H.C. Muller-Landau, E. Jongejans, L.S. Comita H. de Kroon, R. Condit, S. P. Hubbell (2018). Tree species vary widely in their tolerance for liana infestation: A case study of differential host response to generalist parasites. *Journal of Ecology* **106**: 784 - 794.
- Visser, M.D., H.C. Muller-Landau, **S.A. Schnitzer**, H. de Kroon, E. Jongejans, S.J. Wright (2018). A host-parasite model explains variation in liana infestation among co-occurring tree species. *Journal of Ecology* **106**: 2435 - 2445.
- Clark, A.T., M. Detto, H.C. Muller-Landau, **S.A. Schnitzer**, S.J. Wright (2018). Functional traits of tropical trees and lianas influence spatial aggregation at multiple scales. *Journal of Ecology* **106**: 795 - 806.
- Estrada-Villegas, S. and **S.A. Schnitzer** (2018). A comprehensive synthesis of liana removal experiments in tropical forests. *Biotropica* **50**: 729-739.
- Manzané-Pinzón, E., G. Goldstein, **S.A. Schnitzer** (2018). Does soil moisture availability explain liana seedling distribution across a tropical rainfall gradient. *Biotropica* **50**: 215 - 224.
- Moorthy, S., K Calders, M. di Porcia e Brugnera, **S.A. Schnitzer**, H. Verbeeck (2018). Terrestrial laser scanning to detect liana impact on forest structure. *Remote Sensing* **10**, 810; doi:10.3390/rs10060810.
- 2017**      Stewart, T.E. and **S.A. Schnitzer**. (2017). Blurred lines between competition and parasitism. *Biotropica* **49**: 433-438.
- Chen, Y.-J., **S.A. Schnitzer**, Y.-J. Zhang, Z.-X. Fan, G. Goldstein, K.W. Tomlinson, K.-F. Cao, J.-L. Zhang (2017). Stomatal regulation and efficient xylem water transport regulate diurnal water and carbon balances of tropical lianas. *Functional Ecology* **31**: 306-317.
- Adams, B.J., **S.A. Schnitzer**, S.P. Yanoviak (2017). Trees as islands: canopy ant species richness increases with the size of liana-free trees in a Neotropical forest. *Ecography* **40**: 1067-1075.
- DeGuzman, M.E., L.S. Santiago, **S.A. Schnitzer**, L. Alvarez-Cansino (2017). Trade-offs between water transport capacity and drought resistance in neotropical canopy liana and tree species. *Tree Physiology* **37**: 1404-1414.
- Gora, E., P. Bitzer, J. Burchfield, **S.A. Schnitzer**, S. Yanoviak (2017). Effects of lightning on trees: a predictive model based on in situ electrical resistivity. *Ecology and Evolution* **7**: 8523-8534.

- 2016**      **Schnitzer, S.A.** and W.P. Carson (2016). Would ecology fail the repeatability test? *Bioscience* **66**: 98-99.
- Martinez-Izquierdo, L., M.M. Garcia-Leon, J.S. Powers, **S.A. Schnitzer** (2016). Lianas suppress seedling growth and survival of 14 tree species in a Panamanian tropical forest. *Ecology* **97**: 215-224.
- Rodriguez-Ronderos, M.E., G. Bohrer, A. Sanchez-Azofeifa, J.S. Powers, **S.A. Schnitzer** (2016). Contribution of lianas to plant area index & structure in a Panamanian forest. *Ecology* **97**: 3271-3277.
- Ledo, A., J.B. Illian, **S.A. Schnitzer**, S.J. Wright, J.W. Dalling, D.F.R.P Burslem (2016). Prediction of fine-scale distribution of aboveground biomass in a tropical moist forest. *Journal of Ecology*. **104**: 1819-1828.
- Marvin, D.C., G.P. Asner, **S.A. Schnitzer** (2016). Liana canopy cover mapped throughout a tropical forest with high-fidelity imaging spectroscopy. *Remote Sensing of Environment* **176**: 98-106.
- Young A.M., K.E. Barry, **S.A. Schnitzer** (2016). Top-down versus bottom-up ecological control in cacao, *Theobroma cacao* L. *Tropical Agriculture* **93**: 216-226.
- 2015**      **Schnitzer, S.A.**, G.M.F. van der Heijden, J.S. Powers (2015). Addressing the challenges of including lianas in global vegetation models. *Proceedings of the National Academy of Sciences*, doi:10.1073/pnas.1521343113
- van der Heijden, G.M.F., J.S. Powers, **S.A. Schnitzer** (2015). Lianas reduce carbon accumulation in tropical forests. *Proceedings of the National Academy of Sciences* **112**: 13267-13271.
- Alvarez-Cansino, L., **S.A. Schnitzer**, J.P. Reid, J.S. Powers (2015). Liana competition with tropical trees varies with seasonal rainfall and soil moisture, but not tree species identity. *Ecology* **96**: 39-45.
- Marvin, D.C., K. Winter, R.J. Burnham, **S.A. Schnitzer** (2015). No experimental evidence that elevated CO<sub>2</sub> gives tropical lianas an advantage over tropical trees. *Global Change Biology*. **21**: 2055-2069.
- Wright, A.J., M.J. Tobin, S.A. Mangan, **S.A. Schnitzer** (2015). Unique competitive effects of lianas and trees in a tropical forest understory. *Oecologia* **177**: 561-569.
- Wright, A.J., **S.A. Schnitzer**, P.B. Reich. (2015). Daily environmental conditions can drive the competition-facilitation balance among neighbors. *Journal of Ecology*, **103**: 648-656.
- Chen, Y.-J., K.-F. Cao, **S.A. Schnitzer**, Z.-X. Fan, J.-L. Zhang, F. Bongers (2015). Water-use advantage of lianas over trees in seasonal tropical forests. *New Phytologist* **205**: 128-136.
- Waring, B.G., L. Álvarez Cansino, K.E. Barry, K.K. Becklund, S. Dale, M.G. Gei, O.R. Lopez, L. Markesteijn S.A. Mangan, M.E. Rodriguez-Ronderos, R.M Segnitz, **S.A. Schnitzer**, J.S. Powers (2015). Pervasive and strong effects of plant individuals and species on soil chemistry: a meta-analysis of individual plant 'Zinke' effects. *Proceedings of the Royal Society B* **282**: 20151001.
- Reid, J.P., **S.A. Schnitzer**, J.S. Powers (2015). Soil moisture variation after liana removal in a seasonally moist, lowland tropical forest. *PLoS One* DOI 10.1371/journal.pone.0141891

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**Schnitzer, S.A.** (2015) The ecology of lianas in tropical forests. *In: Entanglement: Notes on Representation*, vol. 7. Irene Kopelman, editor. Roma Publication 256.

**Schnitzer, S.A.** (2015) The contribution of lianas to forest ecology, diversity, and dynamics. Pages 149-160 *in: Biodiversity of Lianas*, Parthasarathy, N., *editor*. Springer-Verlag Publishing, Switzerland.

**Schnitzer, S.A.** (2015) The ecology of lianas in forest ecosystems. *In: Handbook of Ecology*, Peh, K., R. Corlett, Y. Bergeron, *editors*. Routledge Publishing, New York, NY.

**Schnitzer, S.A.** (2015). Increasing liana abundance and biomass in neotropical forests: causes and consequences. Pages: 451-464 *in: Ecology of Lianas*, Schnitzer, S.A., F. Bongers, R.J. Burnham, F.E. Putz, *editors*. Wiley-Blackwell Publishing, Oxford.

**Schnitzer, S.A., S.A. Mangan, S.P. Hubbell** (2015). Diversity and distribution of lianas on Barro Colorado Island, Panama. Pages: 76-90 *in: Ecology of Lianas*, Schnitzer, S.A., F. Bongers, R.J. Burnham, F.E. Putz, *editors*. Wiley-Blackwell Publishing, Oxford.

**Schnitzer, S.A., F.E. Putz, F. Bongers, K. Kroening** (2015). The past, present, and potential future of liana ecology. Pages: 3-12 *in: Ecology of Lianas*, Schnitzer, S.A., F. Bongers, R.J. Burnham, F.E. Putz, *editors*. Wiley-Blackwell Publishing, Oxford.

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**2014** **Schnitzer, S.A., G.M.F. van der Heijden, J. Mascaro, W.P. Carson** (2014). Lianas reduce biomass accumulation in a tropical forest. *Ecology*, **95**: 3008-3017. [PDF](#).

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**2013** Wright, A.J., **S.A. Schnitzer**, I. Dickie, A. Gunderson, G. Pinter, S.A. Mangan, P.B. Reich (2013). Facilitation and competition in woody species establishment in grasslands. *Oecologia*, **171**: 449-458.

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van der Sande, M, L. Poorter, **S.A. Schnitzer**, L. Markesteijn (2013). Are lianas more drought tolerant than trees? A test for the role of hydraulic architecture and other functional traits. *Oecologia*, **172**: 961-972.

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## 2012

**Schnitzer, S.A.**, S.A. Mangan, J.W. Dalling, C. Baldeck, S.P. Hubbell, A. Ledo, H. Muller-Landau, M. Tobin, S. Aguilar, D. Brassfield, A. Hernandez, S. Lao, R. Perez, O. Valdez, S.R. Yorke. (2012). Liana abundance, diversity, and distribution on Barro Colorado Island, Panama. *PLoS ONE* **7**(12): e52114. doi:10.1371/journal.pone.0052114. [PDF](#).

Dalling, J.W., **S.A. Schnitzer**, C. Baldeck, K.E. Harms, R. John, S.A. Mangan, E. Lobo, J.B. Yavitt, S.P. Hubbell (2012). Resource-based habitat associations in a neotropical liana community. *Journal of Ecology*, **100**: 1174-1182. [PDF](#).

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## 2011

**Schnitzer, S.A.** and F. Bongers (2011). Increasing liana abundance and biomass in tropical forests: emerging patterns and putative mechanisms. *Ecology Letters*, **14**: 397-406. [PDF](#).

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