About.

I am Ph.D. candidate and Vanier Scholar at the Earth and Atmospheric Sciences Department, University of Alberta. My current research is associated to the develop of methods that help to detect and understand the role of lianas in tropical ecosystems.

I am passionate about data, especially the type of data that involve eco-physiology and remote sensing information. Throughout my interdisciplinary career I have been working in fields such as geographic information systems, remote sensing, ecology, physiology, and modelling.

Biologist by training, data geek by vocation!

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Publications

Guzmán, JA., Rivard, B., Sánchez-Azofeifa, GA. (2018) Discrimination of liana and tree leaves from a Neotropical Dry Forest using visible-near infrared and longwave infrared reflectance spectra. Remote Sensing of the Environment. in press.

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Guzmán, JA., Cordero, RA. (2016) Neighborhood structure influences the convergence in light capture efficiency and carbon gain: An architectural approach for cloud forest shrubs. Tree Physiology. 36(6): 712-724.

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Guzmán, JA. (2015) Ecological advantage of the leaf heteroblasty traits in Costus pulverulentus (Costaceae). Botany. 93(3): 151-158.

Guzmán, JA., Rodríguez-Corrales (2014) Efecto de la regeneración del bosque nuboso sobre la morfología floral y polinización del arbusto heterostílico Palicourea padifolia (Rubiaceae). Cuadernos de Investigacion UNED. 6: 197-204.

Guzmán, JA., Cordero, RA. (2013) Growth and photosynthetic performance of five tree seedlings species in response to natural light regimes from the Central Pacific of Costa Rica. International Journal of Tropical Biology and Conservation. 3: 1433-1444.

For conference presentations take a look to my CV.