

GALIA SELAYA

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EDUCATIONCOURSES

- Utrecht University, The Netherlands** 2007
- Ph.D. Plant Ecology and Biodiversity
- Wageningen University, The Netherlands** 2000
- MSc. Ecological Agriculture
- University Autónoma Gabriel Rene Moreno, Santa Cruz, Bolivia** 1990
- BSc. Agricultural Engineering

INTERNATIONAL COURSES

- International Agricultural Center. Wageningen, The Netherlands** 1996
- Gender and Sustainable Development
- Tsukuba International Agricultural Center, JICA, Japan** 1992
- Vegetable Seed Production

RESEARCH AND OUTREACH OBJECTIVES

- Explores impacts of global changes on forest health, biodiversity, biomass and carbon fluxes in complex tropical ecosystems and local communities
- Science base landscape planning integrating field inventories, remote sensing and social data in multi-stakeholders, social heterogeneity and biophysical complexity.
- Design participatory tools to support science base capacity building for low emission production systems, forest management, REDD+ and conservation programs and policies.

PROFESSIONAL EXPERIENCE

**Courtesy faculty member of the Center for Latin American Studies (LAS) Jan 2016-current
Tropical Conservation and Development Program (TCD)-University of Florida**

- Provide in-country training and increase links and communications between TCD and local institutions in Peru and Bolivia.

Field Research

Sept 2016-current

- Designed and implemented a participatory modeling tool “Gaming for landscape planning” in coordination with the forest planning program of the Authority of Land and Forest and communities of Chiquitano native group at east of Santa Cruz Bolivia.
- Organized the symposium “Participatory modeling and games to engage people in science based conservation ecology and planning”, ATBC conference, July 9-14 Merida Mexico.
- Support forest monitoring plots implementation of University Federal do Acre (UFAC)-PEER Project “Capacity Building for Participatory Monitoring of Changing Forests in Sustainable Use Areas of the Southwestern Brazilian Amazon”.

Postdoc Research Associate

2014-2016

**Coupled Natural and Human Systems, National Science Foundation Grant
University of Florida, Agricultural and Biological Engineering Department**

- Conducted botanical plots data analysis on species composition, ethnobotanical use and forest carbon stocks of different types of forest in southwestern Amazonian.
- Applied Uncertainty and Global Sensitivity Analysis methods of factors used to estimate biomass and carbon stocks in southwestern Amazonia (results to be presented at ATBC 2017 Merida).

Environmental Social Scientist

2012-2014

The Field Museum of Chicago-McArthur Grant, Science and Education

- Implemented conservation and well being plans with indigenous groups living around protected areas in Ucayali and Loreto (Peru).
- Designed and produced participatory methods and tools (games) and media (video) with and for indigenous communities to support implementation of conservation and well being plans.

Field Research Supervisor 2012-2014
Center for International Research

- Conducted proponent appraisal and village survey in San Martin, Peru for a REDD+ projects monitoring of before and after incentives to halt deforestation.

Postdoc Research Associate 2009-2011

**University of Florida-University Amazónica de Pando (UAP), Bolivia,
Initiative for Conservation of the Andean Amazon (ICAA), USAID Latin America.**

- Established botanical permanent plots for monitoring species population dynamics and carbon stocks in forest of southwestern Amazonia.
- Implemented a remote sensing lab and implemented a capacity building program for monitoring land use change, fire and deforestation of southwestern Amazonia at UAP.

PROJECT MANAGEMENT AND CONSULTANCY EXPERIENCE

Lead auditor ISO 14001 Oct 2007 – 2014

Rainforest Alliance Cert.

- Audited REDD+ projects standards; Verified Carbon Standard (VCS), Carbon Community and Biodiversity (CCB) and Forest Stewardship Council (FSC) standards in south and central America.

Environmental Competitiveness Unit Manager Nov 2006- July 2009

Chemonics/USAID Bolivia, Rural Competitiveness Project

- Conducted policy for incentive allocation to enhance the number of small farmers applying best management practices, clean production and organic/fair trade certification.

Community Forestry Consultant June 2001-Jan 2002

Chemonics/USAID/Bolivia BOLFOR Project of Sustainable Forest Management,

- Designed gender policy in community forestry to mainstream indigenous groups and rural communities as BOLFOR stakeholders.

Gender and extension advisor Sep 1996-June 1998

Bolivian National Potato Seed Program, Dutch Cooperation Program, Cochabamba, Bolivia.

- Developed extension program and organization strengthening schemes to mainstream gender in the production and commercialization process of potato seeds.

Rural appraisal consultant 1995 (3 months)

GTZ-German Cooperation Agency, Santa Cruz, Bolivia

- Employed a gendered based assessment to appraise the economic and ecological potentialities of eleven communities in both provinces.

Alternatives to sustainable development consultant 1995 (3 months)

UNDCP-FAO Agroforestry Project, Cochabamba, Bolivia

- Conducted surveys on social, political, and economic demands of both genders during a forest management and community forest project.

Gender consultant 1993-1994

Rhizobiology Research Program, Wageningen University, Santa Cruz, Bolivia

- Drafted and implemented gender policy useful for legume seed production.

Gender Extensionist, CIAT-FAO-UN Project, Santa Cruz, Bolivia. March 1990-Dec 1991

Strengthened the organizational capacity of women in farmer's coops and associations.

TEACHING EXPERIENCE

University Autónoma Gabriel Rene Moreno, Santa Cruz, Bolivia 1996-2009

- Responsible for instructing ecophysiology at the undergraduate level of Forestry Department.

Guest Lecturer, NUR University, Santa Cruz, Bolivia 2000-2003

- Responsible for instructing courses at the graduate level addressing the principles of biodiversity and its applications in sustainable development.

CONTRIBUTIONS TO GRANT WRITING AND IMPLEMENTATION

PEER-NSF-USAID fund 2015-2017. Capacity building for monitoring forest health of Chico Mendez Reserve, Acre, Brazil. UFAC-UF project.

GUIDELINES FOR BEST PRACTICES AND OUTREACH

Revision of the third edition of the Carbon Community and Biodiversity (CCB) standards.

https://s3.amazonaws.com/CCBA/Third_Edition/CCB_Standards_Third_Edition_December_2013.pdf

Designed outreach tools. Selaya NG, Pinedo Z, Alvira D, Alaka W, Rojas Reategui Y.K, Davila T.E. 2014. Logremos el Bienestar Sostenible: Herramienta lúdica de planificación. 136 pp. *The Field Museum, Chicago.* <http://conservationforwellbeing.fieldmuseum.org/success-stories/>

PUBLICATIONS

- Selaya NG; Zuidema P; Baraloto C; Vos V; Brienen R; Pitman N; Brown F; Duchelle A,... & Stephen Perz. 2017.** Economically important species dominate carbon storage in terra firme forests of southwestern Amazonia. *In press. Ecology and Society.*
- Larson AM; Dokken T; Duchelle A; Atmadja S; Resosudarmo IAP; Cronkleton P; Cromberg M; Sunderlin W; Awono A & Selaya G. 2015.** Gender and REDD+: Analyzing women's roles in sub-national initiatives. *Forest and Gender, CIFOR.*
- Larson AM; Dokken T; Duchelle A; Atmadja S; Resosudarmo IAP; Cronkleton P; Cromberg M; Sunderlin W; Awono A & Selaya G. 2015.** The role of women in early REDD+ implementation: lessons for future engagement. *Int. Forestry Review Vol. 17 (1).*
- Falster D; Duursma R; Ishihara M; Barneche B; FitzJohn R; Vårhammar A; Aiba M; Ando M; Anten A; Baltzer J.... Selaya NG:....& Yanai R; York RA. 2015.** BAAD: Biomass and allometry database for woody plants. *Ecological Archives E096-128.*
- Duchelle A, Cromberg M; Gebara MF; Melo T; Larson A; Cronkleton P; Börner J; Selaya N G; Sills E; Bauch S; Guerra R; May P & Wunder S. 2014.** Linking Forest Tenure Reform, Environmental compliance, and incentives: Lessons from REDD+ initiatives in the Brazilian Amazon. *World Development, Volume 55. 53-67.*
- Larson A; Brockhaus N; Sunderlin W; Duchelle A; Babon A; Dokken T; Resosudarmo IAP; Selaya G & Awono A. 2013.** Land tenure and REDD+: The good, the bad and the ugly. *Global Environmental Change. Volume 23, Issue 3, June 2013, Pages 678–689.*
- Selaya G; Alvira D...& Wali. 2013.** Uso de recursos naturales, conocimiento ecologico tradicional y calidad de vida. In Peru: Ere-Campuya-Algodon. Rapid Biological and Social Inventories Report 25. Ed. Pitman N. et al. eds 2013. The Field Museum, Chicago.
- Selaya NG & Anten NPR. 2010.** Leaves of pioneer and later successional trees have similar life time carbon gain in tropical secondary forest. *Ecology. 91:1102–1113.*
- Perz SG; Brillhante S; Brown F; Chavez A; Mendoza E; Passos V....&... Selaya G. 2010.** Crossing boundaries for environmental science and management: combining interdisciplinary, interorganizational and international collaboration. *Environmental Conservation 37 (4): 419–431.*
- Selaya NG; Oomen, RJ; Netten J; Werger MJA & Anten NPR. 2008.** Biomass allocation and leaf life span in relation to light interception by tropical forest plants during the first years of secondary succession. *Journal of Ecology. 96 (6) 1211-1221.*
- Selaya NG & Anten NPR. 2008.** Differences in biomass allocation and mechanical properties between lianas and pioneer trees in early secondary tropical forest. *Functional Ecology.22: 30-39.*
- Selaya NG; Anten NPR; Oomen RJ; Matthies M. & Werger MJA. 2007.** Aboveground mass allocation and light interception of tropical forest trees and lianas early in succession. *Annals of Botany 99:141-151.*
- Selaya NG. 2007.** Sprinting, climbing and persisting: Light interception and carbon gain in a secondary tropical forest succession. PhD Thesis. Utrecht University, PROMAB Scientific Series 11. PROMAB, Riberalta.
- Selaya NG. 2000.** The role of green manure and crop residues in cropping systems of south Uruguay: A model based exploration. MSc Thesis, Wageningen University and Research Center, The Netherlands.

LANGUAGES: Spanish (native), English (Proficient), Portuguese and French (Intermediate)