

# Silvia Alvarez-Clare

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## Employment

2021- Present Director of Global Tree Conservation Program, Morton Arboretum, Lisle, IL.  
2012- Present Guest Researcher, Biosciences Division, Argonne National Laboratory, Lemont, IL.  
2018- 2021 Tree Conservation Ecologist, Global Trees Conservation Program, Morton Arboretum, Lisle, IL.  
2017- 2021 Academic Mentor, Center for Tree Science, Morton Arboretum, Lisle, IL.  
2015- 2016 Assistant Professor of Biology, North Central College, Naperville, IL.  
2012- 2015 National Science Foundation Postdoctoral Research Fellow in Biology (PRFB).  
2001- 2002 International Baccalaureate in Biology Teacher (senior level), Lincoln High School, Costa Rica.

## Professional Preparation

University of Montana, Missoula	Ecosystems Ecology	PostDoc	2012-2015
University of Florida, Gainesville	Interdisciplinary Ecology	Ph.D.	2012
University of Florida, Gainesville	Botany	M.S.	2005
Universidad de Costa Rica, Costa Rica	Biology	B.S.	2001

## Peer-Reviewed Publications (10 selected)

**Alvarez-Clare, S.,** Carrero, C. & Perez Morales, D.W. 2021. *Quercus brandegeei* (Green Status assessment). The IUCN Red List of Threatened Species 2021: e.T30726A3072620213. Accessed on 28 January 2022. *Quercus brandegeei*

Molly K. Grace, H. Resit Akçakaya, Elizabeth L. Bennett, Thomas M. Brooks, Anna Heath, Simon Hedges, Craig Hilton-Taylor, Michael Hoffmann,...**S. Alvarez-Clare**, et al. (2021). Testing a global standard for quantifying species recovery and assessing conservation impact. *Conservation Biology*: July 21.

Denvir, A., **S. Alvarez-Clare**, & M. Westwood (2019). The Morton Arboretum's oak conservation efforts in Latin America. *International Oaks* 30: 317–323.

**Alvarez-Clare, S.** & M. C. Mack (2015). Do foliar, litter, and root nitrogen and phosphorus concentrations reflect nutrient limitation in a lowland tropical wet forest? *PlosOne* (0123796).

Nasto, M. K., **S. Alvarez-Clare**, Y. Lekberg, B. W. Sullivan, A. Townsend & C. C. Cleveland (2014). Interactions among nitrogen fixation and soil phosphorus acquisition strategies in lowland tropical rain forests. *Ecology Letters* 17: 1282–1289.

**Alvarez-Clare, S.,** M. C. Mack & M. Brooks (2013). A Direct test of nitrogen and phosphorus limitation to net primary productivity in a lowland tropical wet forest. *Ecology* 94: 1540–1551.

Cleveland, C. C, A. R. Townsend, P. Taylor, **S. Alvarez-Clare**, M. M. C. Bustamante, G. Chuyong, P. Grierson, K. Harms, B. Z. Houlton, A. Marklein, W. Parton, S. Porder, S. C. Reed, C. A. Sierra, W. L. Silver, E. J.

- R. Tanner & W. R. Wieder (2011). Relationships among net primary productivity, nutrients and climate in tropical rainforest: a pan-tropical analysis. *Ecology Letters* 14: 939–947.
- Alvarez-Clare, S.** & M. C. Mack (2011). Influence of precipitation on soil and foliar nutrients across nine Costa Rican forests. *Biotropica* 43: 433 –441.
- Knapp, C. R., **S. Alvarez-Clare** & C. Perez-Heydrich (2010). The influence of landscape heterogeneity and dispersal on survival of neonate insular iguanas. *Copeia* 2010: 62 –70.
- Alvarez-Clare, S.** & K. Kitajima (2009). Susceptibility of tree seedlings to biotic and abiotic hazards in the understory of a moist tropical forest. *Biotropica* 41: 47–56.

### Other relevant Publications & Media

- BGCI & FFI (2021). Securing a Future for the World’s Threatened Trees - A Global Challenge. BGCI, Richmond, UK. (Contributing author).
- Alvarez-Clare, Beckman, E. Byrne, A. Carrero, C. Paist, S., Westwood, M, and Valencia-Avalos, S.**(2020). *Capítulo IX Propagar para Conservar: Una Estrategia del Consorcio Mundial para La Conservación de Encinos*. In: S. Rodríguez-Acosta M. Allen J. Coombes (Eds.). *Manual de Propagación de Quercus: Una guía fácil y rápida para cultivar encinos en México y América Central*. Jardín Botánico Universitario de la Benemérita Universidad Autónoma de Puebla, México.
- Alvarez-Clare, S. (2019)** [Party at the Oak by the River-](#) Tree-mendous Tree Story. Morton Arboretum website
- Guest at the Podcast *In Defense of Plants* (Episode 302): Community-Based Oak Conservation. <https://www.indefenseofplants.com/podcast>
- Guest at the podcast *Planted: Finding Your Roots in STEM Careers: Collaboration* <https://www.mortonarb.org/learn-experience/educators/planted-finding-your-roots-stem-careers/collaboration-dr-silvia-alvarez>.

### Professional Societies

IUCN SSC Global Trees Specialist Group , American Public Garden Association (APGA) , Association for Tropical Biology and Conservation (ATBC), Botanic Garden Conservation International (BGCI), Center for Plant Conservation (CPC), Ecological Society of America (ESA), Organization for Tropical Studies (OTS), International Oak Society (IOS), 500 Women Scientists.

### Service (present)

- 2020-Present    Advisory Board for the *Promotion of Underrepresented Minorities in Academic STEM (PUMA-STEM) Alliance*. A National Science Foundation Louis Stokes Alliances for Minority Participation (LSAMP) program. Elmhurst, IL.
- 2016- Present    Member and co-organizer of the *Tree Board for North Central College*. North Central College, Naperville, IL.
- 2018-Present    Coordinator for the Oaks of the Americas Conservation Network (OACN) and now Leader for the Global Conservation Consortium for Oak (GCCO)
- 2007-Present    Undergraduate and graduate research mentor for more than 15 students in U.S., Mexico, and Costa Rica.

**Languages** English, Spanish, French (read)