

## **Jenny Zambrano**

### *Curriculum Vitae*

National Socio-Environmental Synthesis Center

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## **EDUCATION**

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- 2014                    **Ph.D.**, Ecology and Evolution, University of Illinois at Chicago  
*Dissertation:* Dynamics of the tropical tree *Poulsenia armata* in the fragmented forest of los Tuxtlas  
*Advisor:* Dr. Henry F. Howe
- 2006                    **B.A.**, Universidad de Los Andes, Colombia  
*Academic advisor:* Dr. Pablo Stevenson

## **ACADEMIC APPOINTMENT**

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- 2015-2017            **Postdoctoral Fellow**, National Socio-Environmental Synthesis Center  
University of Maryland
- 2015                    **Assistant Professor**, Department of Biological Sciences, Northeastern  
Illinois University

## **RESEARCH INTEREST**

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- *Spatial and demographic modeling, particularly tropical trees*
- *Forest fragmentation in tropical forests and the effects on functional diversity*
- *Climate change and plant ecophysiology*

## **PUBLICATIONS**

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**Zambrano, J.**, R. Coates, and H. F. Howe. 2015. Seed predation in a human-modified landscape. *Journal of Tropical Biology*, 31: 379-383

**Zambrano, J.**, and R. Salguero-Gomez. 2014. Forest fragmentation disrupts the population dynamics of a late-successional tree. *Biotropica*, 46: 556-564

**Zambrano, J.**, R. Coates, and H. F. Howe. 2014. Effects of forest fragmentation on the recruitment success of the tropical tree species *Poulsenia armata* at Los Tuxtlas, Veracruz, Mexico. *Journal of Tropical Biology*, 30: 209-218

Barrera, A. V, **J. Zambrano**, and P. Stevenson. 2008. Diversity of regenerating plants and seed dispersal in two canopy trees from Colombian Amazon forests with different hunting pressure. *International Journal of Tropical Biology*, 2008, 56: 1531-1542.

**Zambrano, J.** H. F. Howe and M. Meler-Gonzalez. *in preparation*. Combined effects of seed and soil quality drive seedling performance of *Poulsenia armata* in a human-modified landscape

Zaya, D. N., **Zambrano, J.**, Molano-Flores, B., Bell T.J, and Coons, J.M. *in preparation*. Climate change vulnerability index and population viability analysis for *Sclerocactus brevihamatus tobuschii* ssp.

## TEACHING EXPERIENCE

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2009-2014	<b>Teaching Assistant</b> , Cell Biology. Department of Biological Sciences, University of Illinois at Chicago
2008	<b>Teaching Assistant</b> , Biology of Populations and Communities, Department of Biological Sciences, University of Illinois at Chicago
2007	<b>Teaching Assistant</b> , Cell Biology and Organisms, Department of Biological Sciences, University of Illinois at Chicago

## FELLOWSHIPS AND AWARDS

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2015	Postdoctoral Fellowship, SESYNC, University of Maryland, \$115,400
2014	Graduate Student Research Award, Graduate College, University of Illinois at Chicago, \$200
2014	Student Research Conference in Science, Technology, Engineering & Mathematics, 3 <sup>rd</sup> place Poster Presentation, \$500
2012	Graduate Student Council Travel Award, Graduate College, University of Illinois at Chicago, \$250
2012	Travel Award, Biological Sciences Department, University of Illinois at Chicago, \$600
2012	Grants-in-Aid for Research, Sigma Xi the Scientific Research Society, \$400

- 2012 Award for Excellence in Teaching, Graduate College, University of Illinois at Chicago, \$200
- 2011 Provost Award, Graduate College, University of Illinois at Chicago, \$2000
- 2010 Research Award, Idea Wild, \$400
- 2010 Small Grant for Nature Conservation, The Rufford Small Grants Foundation, \$7486
- 2010 Elmer Hadley Award, Department of Biological Sciences, University of Illinois at Chicago, \$2000
- 2005 Research Award, Tropenbos Foundation, \$3000

### **CONTRIBUTED CONFERENCE PRESENTATIONS**

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- 2015 **Zambrano, J.** and R. Salguero-Gomez. Forest fragmentation alters the population dynamics of a late-successional tree. Organized Oral Session: Demographic buffering beyond the comfort zone: species' responses to anthropogenic disturbances. Ecological Society of America meeting in Baltimore, Maryland.
- 2014 **Zambrano, J.** R. Coates. and H. F. Howe. Effects of forest fragmentation on the recruitment success of the tropical tree species *Poulsenia armata* at Los Tuxtlas, Veracruz, Mexico. Student Research Conference in Science, Technology, Engineering & Mathematics, Chicago, Illinois.
- 2013 **Zambrano, J.** Tales from the crypt: the curse of an old growth tree species in a fragmented forest. Ecological Society of America meeting in Minneapolis, Minnesota
- 2012 **Zambrano, J.** R. Coates. and H. F. Howe. Demographic study of *Poulsenia armata* to evaluate the effects of forest fragmentation on an animal dispersed tree. Ecological Society of America meeting in Portland, Oregon
- 2011 **Zambrano, J.** The effects of forest fragmentation in the life history of an animal dispersed tree at Los Tuxtlas, Mexico. University of Illinois at Chicago, Illinois
- 2009 **Zambrano, J.** Preserving forest biodiversity in times of war. University of Lake Forest, Chicago, Illinois. Invited seminar speaker
- 2007 **Zambrano, J.** Effects of the Plan Colombian in biodiversity. University of Lake Forest, Chicago, Illinois. Invited seminar speaker

2006 Barrera, A. V, **J. Zambrano**, and P. Stevenson. Diversity of regenerating plants and seed dispersal in two canopy trees from Colombian Amazon forests with different hunting pressure. IX Latin-American Congress of Botany in Santo Domingo, Dominican Republic

## RESEARCH EXPERIENCE

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2007 **Environmental Educator**, Botanical Garden in Bogota, Colombia

2005-2006 **Field Assistant**, Woolly Monkey Project, National Natural Park Amacayacu, Colombia

2005 **Participant**, Organization of Los Andes University Herbarium, Colombia

2003-2004 **Park Ranger**, National Natural Park “Los Nevados”, Colombia

2004 **Participant**, Biodiversity expedition organized by the University of Caldas to the Karagabi Reserve, Colombia

2004 **Participant**, Biodiversity expedition organized by the University of Caldas to The Rio Sucio area, Colombia

2003 **Field Assistant**, Identification of plants at the Botanical Garden in Bogota, Colombia

## PROFESSIONAL DEVELOPMENT

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2015 Bayesian Modeling Course, SESYNC, University of Maryland

2011 Integral Projection Models Workshop, Ecological Society of America meeting in Portland, Oregon

## SERVICES & OUTREACH

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### Peer Reviewer

*Biological Conservation, Plant Ecology*

## **Conference activities**

Meeting organizer, Lighting talks postdocs and researchers from the National Socio-Environmental Synthesis Center and Smithsonian Environmental Research Center 2015

Symposium organizer, Association of Tropical Biology and Conservation 2016

## **PROFESSIONAL SOCIETIES**

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Ecological Society of America

Association of Tropical Biology and Conservation

Sigma Xi

Chancellor's Committee on the Status of Latinos Graduate Student Association

Women In Science and Engineer (WISE), University of Illinois at Chicago

## **SKILLS**

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- Analyzed data in R using logistic regression, ANOVA, Maximum Likelihood Analysis, Generalized Linear Mixed Models, Bayesian Modeling
- Analyzed data in GENSTAT using permutational ANOVAs
- Developed workflow for data management and modeling using Integral Projection Models using R
- Developed population models in MatLab
- Experience with Geographical Information Systems (ArcGIS)
- Languages: Spanish (fluent), French (fluent), English (fluent) and Portuguese (acceptable)