

**Andrea S. Garcia**  
Master of Science

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## Education

- 2015 - 2019* University of São Paulo, PhD, applied ecology  
Advisor: Maria Victoria Ramos Ballester  
Internship: Institute on the Environment/ Global Landscape Initiative  
Support: CAPES; FAPESP; Belmont Forum
- 2012 - 2014* University of São Paulo, Master in Science, applied ecology  
Advisor: Maria Victoria Ramos Ballester  
Internship: University of Cambridge/ Forest Ecology Group  
Support: CAPES
- 2011 - 2012* Federal University of Paraná, Specialization, environmental economics
- 2006 - 2009* Federal University of Mato Grosso do Sul, Bachelor of Science, biological sciences  
Advisor: Angela Lucia Bagnatori Sartori  
Internship: EMBRAPA Beef cattle  
Support: CNPq

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## Research Experience

- Oct 2017 – Oct 2018* **Visiting scholar**  
University of Minnesota, Institute on the Environment, Global Landscape Initiative  
Focus: to analyse land use change and intensification in the Amazon's arc of deforestation.
- Feb 2015 – Mar 2019* **PhD Student**  
University of São Paulo, Center of Nuclear Energy in Agriculture, Geoprocessing Lab  
Focus: map and model land cover and land use change in the Amazon's arc of deforestation, including the expansion or contraction of native forests, agriculture, and degradation.
- Jul 2013 – Dec 2013* **Visiting scholar**  
University of Cambridge, Department of Plant Sciences, Forest ecology group  
Focus: with Dr. Jessica Fonseca and Dr. David Comes, we modelled potential tree species distribution in the Cerrado biome in order to create a spatial indication of tree species richness.
- Feb 2012 – Jun 2014* **Master's Degree**  
University of São Paulo, Center of Nuclear Energy in Agriculture, Geoprocessing Lab  
Focus: combining field survey, GIS tools, and molecular techniques, we studied plant phenology, dispersion and genetic diversity on a fragmented Cerrado landscape.
- Jan 2008 – Jan 2009* **Scientific Initiation**  
Federal University of Mato Grosso do Sul, Plant systematics Lab.  
Focus: tree spatial patterns and dispersion mode in Cerrado fragments.
- Jan 2007 –* **Scientific Initiation**

Jan 2008 EMBRAPA Beef Cattle, Plant physiology Lab.  
Focus: natural regeneration pathways in fragments of Cerrado in pastureland matrix.

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### Awards & Grants

Oct 2017 Fellowship: PhD Research Internships Abroad (FAPESP)  
Jul 2017 Award: Grand Challenges: Uniting Research Cultures (University of Surrey & Santander)  
Jun 2017 Doctorate fellowship (FAPESP)  
Mar 2015 Doctorate fellowship (CAPES)  
May 2012 Master fellowship (CAPES)  
Jul 2008 Scientific Initiation fellowship (UFMS/CNPq)  
Jul 2006 Scientific Initiation fellowship (UFMS/CNPq)

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### Skills & Activities

Skills Applied ecology; Environmental Modelling; Land use science; Spatial analysis;  
Geographic Information System; Remote sensing;  
Language Portuguese, English, Spanish  
Memberships International Association for Landscape Ecology

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### Journal Publications

**Andrea Garcia**, Henrique O. Sawakuchi, Manuel E. Ferreira, Maria V. R. Ballester: *Landscape changes in a neotropical forest-savanna ecotone zone in central Brazil: The role of protected areas in the maintenance of native vegetation*. Journal of Environmental Management 2017 (DOI:10.1016/j.jenvman.2016.11.010)

**Andrea Garcia**, Maria V. R. Ballester: *Land cover and land use changes in a Brazilian Cerrado landscape: drivers, processes, and patterns*. Journal of Land Use Science 2016 (DOI:10.1080/1747423X.2016.1182221)

**Andrea Garcia**, Luiz C. Acorci Filho, Sergio D. Garcia. *Integrating ecology, economy and geotechnology in decision making*. Interações 2014 (DOI:10.1590/S1518-70122014000200015)

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### Book chapter

Fernanda V. Reichardt, **Andrea Garcia**, Maria E. Garavello. *Upper Xingu Basin: socio-environmental demands in the agricultural frontier of the Amazon region*. In: Van Der Byl; Quinn; Jakubec; Boschman. Mount Royal University series. Calgary: University of Calgary Press's. [In press]

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### Presentations

Andrea Garcia. Dynamics of land use and land cover in the agricultural frontier of Brazilian Amazon. *Doctoral College Conference*. University of Surrey, Guildford (England), 2017.

Andrea Garcia. Land cover/use changes in a Brazilian Cerrado landscape (1975 - 2011): drivers and impacts. *Workshop in scientific publication*. Centre of Nuclear Energy in Agriculture (CENA/USP), Piracicaba (Brazil), 2014.

Andrea Garcia. Phenology and dispersal in fragmented Cerrado landscape, Brazil: preliminary results. *Workshop in Applied Ecology: Ecosystem services - use and conservation*. Centre of Nuclear Energy in Agriculture (CENA/USP), Piracicaba (Brazil), 2013.

Andrea Garcia. Dispersion mode of tree legumes and its pattern of spatial distribution in the RPPN cerrado woodland. *60° National Botanical Congress of Brazil - Prize session on undergrads 'research (Premio Verde)*. Natal (Brazil), 2009.

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### Others professional Experience

Jul 2016 – **Teaching assistant**  
Dec 2016 University of São Paulo, Center of Nuclear Energy in Agriculture - Landscape ecology  
Jul 2014 – **Lab assistant**  
Feb 2015 University of São Paulo, Center of Nuclear Energy in Agriculture - Environmental analysis and geoprocessing routines  
Jul 2011 – **Lab assistant**

*Dec 2011*

Federal University of Mato Grosso do Sul - Herbarium data bank management.