

CURRICULUM VITAE

Thomas Kitzberger

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Datos laborales

Laboratorio Ecotono, CRUB
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Títulos obtenidos

1987	Licenciado	Universidad de Buenos Aires, Departamento de Biología.
1994	PhD	University of Colorado, Department of Geography. Tesis: <i>Fire regime variation along a northern Patagonian forest-steppe ecotone: stand and landscape response</i> . Director: Dr. T.T. Veblen

Cargos actuales

2010-	<i>Investigador Principal</i> . Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET). Lugar de trabajo: Laboratorio Ecotono, CRUB, INIBIOMA-CONICET Universidad Nacional del Comahue
2013-	<i>Asistente de Docencia a Cargo de Cátedra</i> , interino, dedicación exclusiva, Departamento de Ecología, Univ. Nac. del Comahue

Categoría I del Programa de Incentivos. SPU (2005).

Investigación

Publicaciones periódicas (ISI) (últimos 5 años) (total=71)

1. Paritsis, J., A. Holz, T.T. Veblen & **T. Kitzberger**. 2013. Habitat distribution modeling reveals vegetation flammability and land use as drivers of wildfire in SW Patagonia. *Ecosphere* 4(5):53.
2. Mundo, I.A., T. Wiegand, R. Kanagaraj & **T. Kitzberger**. 2013. Environmental drivers and spatial dependency in wildfire ignition patterns of northwestern Patagonia. *Journal of Environmental Management* 123: 77-87.
3. Mundo, I.A., **T. Kitzberger**, F.A. Roig Juñent, R. Villalba & M.D. Barrera. 2013. Fire history in the *Araucaria araucana* forests of Argentina: Human and climate influences. *International Journal of Wildland Fire* 22: 194-226.
4. Díaz, S. & **T. Kitzberger**. 2013. Nest habitat selection by the Austral parakeet in north-western Patagonia. *Austral Ecology* 38: 268-278.
5. Premoli, A.C., P. Quiroga, P. Mathiasen & **T. Kitzberger**. 2012. Ecological niche modeling meets phylogeography to unravel hidden past history of key forest genera in plant geography: *Podocarpus* and *Nothofagus*. *Natureza e Conservação* 10: 160-168.
6. Holz, A., **T. Kitzberger**, J. Paritsis & T.T. Veblen. 2012. Ecological and climatic controls of modern wildfire activity patterns across southwestern South America. *Ecosphere* 3(11) Art 131.
7. Díaz, S., **T. Kitzberger** & S. Peris. 2012. Food resources and reproductive output of Austral Parakeet (*Enicognathus ferrugineus*) in forests of northern Patagonia. *Emu* 112: 234-243.
8. Souto, C.P., K. Heinemann, **T. Kitzberger**, A. Newton, & A.C. Premoli. 2012. Genetic diversity and structure in *Austrocedrus chilensis* populations: implications for dryland forest restoration. *Restoration Ecology* 20: 568-575.
9. Mazía N., E.J. Chaneton, C. Dellacanonica, L. Dipaolo & **T. Kitzberger**. 2012. Seasonal pattern of herbivory, leaf traits, and productivity consumption in dry and wet Patagonian forests. *Ecological Entomology* 37:193-203.

10. Paritsis, J., C. Quintero, **T. Kitzberger** & T.T. Veblen. 2012. Mortality of the outbreak defoliator *Ormiscodes amphimone* (F.) (Lepidoptera: Saturniidae) caused by natural enemies in northwestern Patagonia, Argentina. *Revista Chilena de Historia Natural* 85: 113-122.
11. Mundo, I.A.; F.A. Roig Juñent, R. Villalba, **T. Kitzberger**, & M.D. Barrera. 2012. *Araucaria araucana* tree-ring chronologies in Argentina: spatial variations and climate influence. *Trees - Structure and Function* 26: 443-458.
12. **Kitzberger, T.**, E. Aráoz, J.H. Gowda, M. Mermoz & J.M. Morales. 2012. Decreases in fire spread probability with forest age promotes alternative community states, reduced resilience to climate variability and large fire regime shifts. *Ecosystems* 15: 97-112.
13. Barrios-García, M.N., M.A. Relva & **T. Kitzberger**. 2012. Patterns of use and damage by exotic deer on native plant communities in northwestern Patagonia. *European Journal of Wildlife Research* 58: 137-146.
14. Gowda, J.H., **Kitzberger, T.** & A.C. Premoli. 2012. Landscape responses to a century of land use along the northern Patagonian forest-steppe transition. *Plant Ecology* 213: 259-272.
15. LaManna, L., S.D. Mateucci & **T. Kitzberger**. 2012. Modelling *Phytophthora* disease risk in *Austrocedrus chilensis* forests of Patagonia. *European Journal of Forest Research* 131: 323-337.
16. Veblen, T., A. Holz, J. Paritsis, E. Raffaele, **T. Kitzberger** & M. Blackhall. 2011. Adapting to global environmental change in Patagonia: What role for disturbance ecology? *Austral Ecology* 36: 891-903.
17. Garibaldi, L., **T. Kitzberger**, & E.J. Chaneton. 2011. Environmental and genetic control of insect abundance and herbivory along a forest elevational gradient. *Oecologia* 167: 117-129.
18. Garibaldi, L., **T. Kitzberger** & A. Ruggiero. 2011. Latitudinal decrease in folivory within *Nothofagus pumilio* forests: dual effect of climate on insect density and leaf traits? *Global Ecology and Biogeography* 20: 609-619.
19. Premoli, A.C, P. Mathiasen & **T. Kitzberger**. 2010. Southernmost *Nothofagus* trees enduring ice ages: genetic evidence and ecological niche retrodiction reveal high latitude (54°S) glacial refugia. *Palaeogeography, Palaeoclimatology, Palaeoecology* 298: 247-256.
20. Birch, J., A.C. Newton, C. Alvarez Aquino, E. Cantarello, C. Echeverría, **T. Kitzberger**, I. Schiappacasse & N. Tejedor Garavito. 2010. Cost-effectiveness of dryland forest restoration evaluated by spatial analysis of ecosystem services. *Proceedings of the National Academy of Sciences* 107: 21925-21930.
21. Suárez, M.L. & **T. Kitzberger**. 2010. Differential effects of climate variability on forest dynamics along a precipitation gradient in northern Patagonia. *Journal of Ecology* 98: 1023-1034.
22. Garibaldi L., **T. Kitzberger**, C.N. Mazía, C.N., E.J. Chaneton. 2010. Nutrient supply and bird predation additively control insect herbivory and tree growth in two contrasting forest habitats. *Oikos* 119: 337-349.
23. Chaneton, E.C., C. N. Mazía & **T. Kitzberger**. 2010. Facilitation vs. apparent competition: insect herbivory alters tree seedling recruitment under nurse shrubs in a steppe-woodland ecotone. *Journal of Ecology* 98: 488-497.
24. Allen, C.D., Macalady, A.K., Chenchouni, H., Bachelet, D., McDowell, N., Vennetier, M., **Kitzberger, T.**, Rigling, A., Breshears, D.D., Hogg, E.H., Gonzalez, P., Fensham, R., Zhang, Z., Castro, J., Demidova, N., Lim, J., Allard, G. Running, S.W., Semerci, A. & N. Cobb. 2010. A global overview of drought and heat-induced tree mortality reveals emerging climate change risks for forests. *Forest Ecology and Management* 259: 660-684.
25. Sanguinetti, J. & **T. Kitzberger**. 2010. Factors controlling seed predation by rodents and non-native *Sus scrofa* in *Araucaria araucana* forests: potential effects on seedling establishment. *Biological Invasions* 12: 689-706.
26. Sanguinetti, J. & **T. Kitzberger**. 2009. Efectos de la producción de semillas y la heterogeneidad vegetal sobre la supervivencia de semillas y el patrón espacio-temporal de establecimiento de plántulas en *Araucaria araucana*. *Revista Chilena de Historia Natural* 82: 319-335.
27. Caccia, F., E.J. Chaneton & **T. Kitzberger**. 2009. Direct and indirect effects of understorey bamboo shape tree regeneration niches in a mixed temperate forest. *Oecologia* 161: 771-780.

28. Paritsis, J., T. T. Veblen & **T. Kitzberger**. 2009. Assessing dendroecological methods to reconstruct defoliator outbreaks on *Nothofagus pumilio* in northwestern Patagonia, Argentina. *Canadian Journal of Forest Research* 39: 1617-1629.
29. Mazía, C.N., E.J. Chaneton, **T. Kitzberger** & L. Garibaldi. 2009. Variable strength of top-down effects in *Nothofagus* forests: bird predation and insect herbivory during an ENSO event. *Austral Ecology* 34: 359-367.
30. Relva, M.A., C.L. Westerholm & **T. Kitzberger**. 2009. Effects of introduced ungulates on forest understory communities in northern Patagonia are modified by timing and severity of stand mortality. *Plant Ecology* 201: 11-22.
31. Suarez, M.L. & **T. Kitzberger**. 2008. Recruitment patterns following a severe drought: long-term compositional shifts in Patagonian forests. *Canadian Journal of Forest Research* 38: 3002-3010.
32. Veblen, T.T., **T. Kitzberger**, E. Raffaele, M. Mermoz, M.E. González, J.S. Sibold, & A. Holz. 2008. The historical range of variability of fires in the Andean-Patagonian *Nothofagus* forest region. *International Journal of Wildland Fire* 17: 724-741.
33. LaManna, L., S.D. Mateucci & **T. Kitzberger**. 2008. Abiotic factors related to the incidence of the *Austrocedrus chilensis* disease syndrome at a landscape scale. *Forest Ecology and Management* 256: 1087-1095.
34. Nuñez, C.I., M.A. Nuñez & **T. Kitzberger**. 2008. Sex-related spatial segregation and growth in a dioecious conifer along environmental gradients in northwestern Patagonia. *Ecoscience* 15: 73-80.
35. Sanguinetti, J. & **T. Kitzberger**. 2008. Patterns and mechanisms of masting in the large-seeded southern hemisphere conifer *Araucaria araucana*. *Austral Ecology* 33: 78-87.

Capítulos de libro (últimos 5 años) (total=22)

1. **Kitzberger, T.** 2013. *Impact of extreme and infrequent events on terrestrial ecosystems and biodiversity*. Pp. 209-223 en (S. Levin Ed.). Encyclopedia of Biodiversity, 2nd Edition. Elsevier.
2. **Kitzberger, T.** 2012. *Ecotones as complex arenas of disturbance, climate and human impacts: the trans-Andean forest-steppe ecotone of northern Patagonia*. Pp: 59-88 en: (R. Myster Ed.). Ecotones between forest and grassland. Springer. Pp. 59-88, 327pp. ISBN 978-1-4614-3796-3
3. Rey Benayas, J.M., L. Cristóbal, **T. Kitzberger**, R. Manson, F. López-Barrera, J. Schulz, R. Vaca, L. Cayuela, R. Rivera, L. Malizia, D. Golicher, C. Echeverría, R. del Castillo, J. Salas. 2011. Assessing the current extent and recent loss of dryland forest ecosystems In: Newton, A. and Tejedor, N., eds. *Principles and practice of forest landscape restoration: case studies from the drylands of Latin America*. Gland, Switzerland: International Union for Conservation of Nature, pp. 23-64. ISBN: 978-2-8317-1340-3.
4. Echeverría, C., **T. Kitzberger**, R. Rivera, R. Manson, R. Vaca, L. Cristóbal, G. Machuca, D. González, R. Fuentes. 2011. Assessing fragmentation and degradation of dryland forest ecosystems. In: Newton, A. and Tejedor, N., eds. *Principles and practice of forest landscape restoration: case studies from the drylands of Latin America*. Gland, Switzerland: International Union for Conservation of Nature, pp. 65-102. ISBN: 978-2-8317-1340-3.
5. Premoli, A.C., C.P. Souto, S. Trujillo A., R.F. del Castillo, P. Quiroga, **T. Kitzberger**, Z. Gomez Ocampo, M. Arbetman, L. Malizia, A. Grau, R. Rivera García, A.C. Newton. 2011. Impact of forest fragmentation and degradation on patterns of genetic variation and its implication for forest restoration. In: Newton, A. and Tejedor, N., eds. *Principles and practice of forest landscape restoration: case studies from the drylands of Latin America*. Gland, Switzerland: International Union for Conservation of Nature, pp. 205-228. ISBN: 978-2-8317-1340-3.
6. Newton, A., Cantarello, E., Tejedor, N., **Kitzberger, T.**, Echeverría, C., Williams Linera, G., Golicher, D., Bolados, G., Manson, R.H., Lopez-Barrera, F., Ramirez-Marcial, N., Martinez Ico, M. and Hill, R.A., 2011. Landscape-scale dynamics and restoration of dryland forest ecosystems. In: Newton, A. and Tejedor, N., eds. *Principles and practice of forest landscape restoration: case studies from the drylands of Latin America*. Gland, Switzerland: International Union for Conservation of Nature, pp. 229-272. ISBN: 978-2-8317-1340-3.
7. González-Espinosa, M, MR Parra-Vázquez, MH Huerta-Silva, N Ramírez-Marcial, JJ Armesto, AD Brown, C Echeverría, BG Ferguson, D Geneletti, J D Golicher, J Gowda, SC Holz, E Ianni, **T. Kitzberger**, A Lara, F López-Barrera, L Malizia, RH Manson, J.A. Montero-Solano, G.

Montoya-Gómez, F. Orsi, A.C. Premoli, J.M. Rey-Benayas, I. Schiappacasse, C. Smith-Ramírez, G. Williams-Linera and A.C. Newton. 2011. Development of policy recommendations and management strategies for restoration of dryland forest landscapes. In: Newton, A. and Tejedor, N., eds. *Principles and practice of forest landscape restoration: case studies from the drylands of Latin America*. Gland, Switzerland: International Union for Conservation of Nature, pp. 307-352. ISBN: 978-2-8317-1340-3

Subsidios otorgados como investigador principal (últimos 5 años)

- 2005-2007 Proyectos de Investigación Científica y Tecnológica (PICT REDES 2003) “*Controles espacio-temporales de la herbivoría en ecosistemas de bosque y estepa de la Patagonia*” Colaboración con la Univ.de Bs.As.-IFEVA. Investigador Responsable Nodo. (\$ 398,200).
- 2005-2007 Universidad Nacional del Comahue “*Patrones y procesos ecológicos del bosque templado Andino-Patagónico Parte III: Variación geográfica, efectos sinérgicos disturbio-invasión y pulsos endógenos*”. Investigador Responsable (\$ 36.000).
- 2008-2010 Proyectos de Investigación Científica Y Tecnológica Orientados (PICT-O 2006 Forestal. 16-36801). Agencia Nacional de Promoción Científica y Técnica. “*Desarrollo de un modelo dinámico de paisaje aplicado al monitoreo, la conservación y el uso sustentable del bosque andino norpatagónico*”. Investigador Responsable (\$ 244.018).
- 2009-2011 Proyectos de Investigación Científica y Tecnológica (PICT REDES 2007-00284) “*Interacciones tróficas entre plantas y herbívoros clave: controles y consecuencias para el funcionamiento de ecosistemas terrestres*” Colaboración con la Univ.de Bs.As.-IFEVA y IADIZA. Investigador Responsable Nodo. (\$ 322.623).
- 2011-12 Proyecto de Cooperación Internacional CONICET-NSF. “*Wildfire Regime Shifts In Southern South America from Tree-Ring Reconstructed Fire History Networks: Climatic Controls, Land Use, and Ecological Feedbacks*”. Investigador Responsable (\$ 46.600)
- 2011-2013 Proyecto de Investigación Aplicada (PIA), Proyecto Manejo Sustentable de Recursos Naturales BIRF 7520AR. “*Silvicultura del ciprés de la cordillera. ¿Una alternativa rentable y sustentable en la provincia de Río Negro?*” Investigador Responsable (\$ 149.500)

Premios y distinciones

- 1999 Premio Fundación Bunge y Born 1999, Ciencias del Ambiente (Medalla de Oro, U\$20.000)
- 2000 Premio Henry C. Cowles a la mejor publicación del año en el área de biogeografía del Biogeography Speciality Group, Association of American Geographers (AAG)
- 2006 Zayed International Prize for the Environment (Emiratos Arabes Unidos) a los autores de Millenium Ecosystem Assessment)
- 2007 Distinción del Consejo Municipal de San Carlos de Bariloche al Equipo de Investigación del Laboratorio Ecotono

Formación de Recursos Humanos

Tesis defendidas Director de tesis Posgrado: 9, Grado: 2, Codirector Posgrado: 2, Grado: 2

Tesis en curso Dirección: 1, Como codirector o miembro del comité de tesis: 5

Dirección y codirección de becarios Doctorales: 10, Posdoctorales: 10

Dirección y codirección de investigadores: 5