

CURRICULUM VITAE

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Nombre: Marcelo Adrián Aizen

Lugar y fecha de nacimiento: Buenos Aires, Argentina.
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ÁREAS DE INTERES

Interacciones mutualistas planta-animal . Ecología reproductiva de plantas . Ecología de comunidades . Biodiversidad . Conservación

ESTUDIOS PROFESIONALES

Universidad de Buenos Aires, Facultad de Ciencias Exactas y Naturales. Marzo 1980 - diciembre 1985. Título: Licenciado en Ciencias Biológicas.

Universidad de Massachusetts en Amherst, Departamento de Ciencias Forestales y Manejo de Fauna Silvestre. Setiembre 1987 - setiembre 1992 (Programa doctoral). Título: Ph.D.

POSICIONES ACTUALES

Investigador Superior del CONICET. INIBIOMA- Universidad Nacional del Comahue. En la carrera del investigador desde enero 1995 hasta el presente.

Profesor Titular. Departamento de Ecología, Centro Regional Bariloche, Universidad Nacional del Comahue. Desde junio 2016 hasta el presente.

SUBSIDIOS RECIBIDOS

Sigma Xi (1988), International Foundation for Science (1990, 1993, 1995), Universidad Nacional del Comahue (1994, 1996, 1997, 2001), CONICET (1997, 1999, 2005), National Geographic

Society (1998, 2002), Fondo de Ciencia y Técnica (1998, 1999, 2008, 2016), Wildlife Conservation Society (2000), Fundación Antorchas (2000, 2002), CONICET (2005, 2008).

DIRECCION DE TESIS

14 Tesinas de Licenciatura + 13 Tesis Doctorales (incluyendo dirigidas y co-dirigidas)

PUBLICACIONES

121 artículos científicos
1 libro editado
12 capítulos de libros
12 artículos de divulgación
3 informes técnicos de impacto internacional

Artículos científicos publicados en los últimos cinco años:

1. Chalcoff, V.R., **M.A. Aizen** y C. Ezcurra. 2012. Erosion of a pollination mutualism along an environmental gradient in a south Andean treelet, *Embothrium coccineum* (Proteaceae). *Oikos* 121: 471–480.
2. **Aizen, M.A.**, M. Sabatino y J.M. Tylianakis. 2012. Specialization and rarity predict non-random loss of interactions from mutualist networks. *Science* 335: 1486-1489.
3. Sáez, A., M. Sabatino y **M.A. Aizen**. 2012. Interactive effects of large- and small-scale sources of feral honey-bees for sunflower in the Argentine Pampas. *PLoS One* 7: e30968.
4. Cavallero, L., **M.A. Aizen** y E. Raffaele. 2012. Endozoochory decreases environmental filtering imposed to seedlings. *Journal of Vegetation Science* 23: 677-689.
5. Cavallero, L., E. Raffaele y **M.A. Aizen**. 2013. Birds as mediators of passive restoration during early post-fire recovery. *Biological Conservation* 158: 342-350.
6. Arbetman, M.P., I. Meeus, C.L. Morales, **M.A. Aizen** y G. Smagghe. 2013. Alien parasite hitchhikes to Patagonia on invasive bumblebee. *Biological Invasions* 15: 489-494.
7. Garibaldi, L.A., I. Steffan-Dewenter, R. Winfree, **M.A. Aizen**, Bommarco R., Cunningham S.A., Kremen C., Carvalheiro L.G., Harder L.D., Afik O., Bartomeus I., Benjamin F., Boreux V., Cariveau D., Chacoff N.P., Dudenhöffer J.H., Freitas B.M., Ghazoul J., Greenleaf S., Hipólito J., Holzschuh A., Howlett B., Isaacs R., Javorek S.K., Kennedy C.M., Krewenka K., Krishnan S., Mandelik Y., Mayfield M.M., Motzke I., Munyuli T., Nault B.A., Otieno M., Petersen J., Pisanty G., Potts S.G., Rader R., Ricketts T.H., Rundlöf M., Seymour C.L., Schüepp C., Szentgyörgyi H., Taki H., Tscharntke T., Vergara C.H., Viana B.F., Wanger T.C., Westphal C., Williams N., y Klein A.M. 2013. Wild pollinators enhance fruit set of crops regardless of honey-bee abundance. *Science* 339: 1608-1611.
8. Morales, C.L., M.P. Arbetman, S.A. Cameron y **M.A. Aizen**. 2013. Rapid ecological replacement of a native bumble bee by invasive species. *Frontiers in Ecology and the Environment* 11: 529–534. <http://dx.doi.org/10.1890/120321>
9. Rodríguez-Cabal, M.A, N. Barrios-García, G.C. Amico, **M.A. Aizen**, y N.J. Sanders. 2013. Node-by-node disassembly of a mutualistic interaction web driven by species introductions. *Proceedings of the National Academy of Sciences* 110: 16503-16507.

10. Amico, G.C., R. Vida l-Russell, **M.A. Aizen** y D. Nickrent. 2014. Genetic diversity and population structure of the mistletoe *Tristerix corymbosus* (Loranthaceae). *Plant Systematics and Evolution* 300: 153-162.
11. Morales, C.L., A. Sáez, M.P. Arbetman, L. Cavallero, y **M.A. Aizen**. 2014. Detrimental effects of volcanic ash deposition on bee fauna and plant-pollinator interactions. *Ecologia Austral* 24:42-50.
12. Sáez, A., M. Sabatino, y **M.A. Aizen**. 2014. La diversidad floral del borde afecta la riqueza y abundancia de visitantes florales nativos en cultivos de girasol. *Ecologia Austral* 24:94-102.
13. Garibaldi, L.A., L.G. Carvalheiro, S.D. Leonhardt, **M.A. Aizen**, B.R. Blaauw, R. Isaacs, M. Kuhlmann, D. Kleijn, A.M. Klein, C. Kremen, L. Morandin, J. Scheper, y R. Winfree. 2014. From research to action: practices to enhance crop yield through wild pollinators. *Frontiers in Ecology and the Environment* 12: 439-447.
14. **Aizen, M.A.**, C.L. Morales, D.P. Vázquez, L.A. Garibaldi, A. Sáez, y L.D. Harder. 2014. When mutualism goes bad: density-dependent impacts of introduced bees on plant reproduction. *New Phytologist* 204: 322-328.
15. Sáez, A., C.L. Morales, L. Ramos, y **M.A. Aizen**. 2014. Extremely frequent bee visits increase pollen deposition but reduce drupelet set in raspberry. *Journal of Applied Ecology* 51: 1603-1612.
16. Hudson, L.N., T. Newbold, S. Contu, S.L. Hill, I. Lysenko, A. De Palma, H.R.P. Phillips, R.A. Senior, D.J. Bennett, H. Booth, A. Choimes, D.L.P. Correia, J. Day, S. Echeverría-Londoño, M. Garon, M.L.K. Harrison, D.J. Ingram, M. Jung, V. Kemp, L. Kirkpatrick, C.D. Martin, Y. Pan, H.J. White, J. Aben, S. Abrahamczyk, G.B. Adum, V. Aguilar-Barquero, **M.A. Aizen et al.** 2014. The PREDICTS database: a global database of how local terrestrial biodiversity responds to human impacts. *Ecology and Evolution* 4: 4701-4735.
17. Martyniuk, N.A., C. L. Morales y **M.A. Aizen**. 2015. Invasive conifers reduce seed set of a native Andean cedar through heterospecific pollination competition. *Biological Invasions* 17: 1055-1067.
18. Gilarranz, L.J., M. Sabatino, **M.A. Aizen**, y J. Bascompte. 2015. Hotspots of mutualistic networks. *Journal of Animal Ecology* 84: 407–413.
19. Valiente-Banuet, A., **M.A. Aizen**, J.M. Alcántara, J. Arroyo, A. Cocucci, M. Galetti, M.B. García, D. García, J.M. Gómez, P. Jordano, R. Medel, L. Navarro, J.R. Obeso, R. Oviedo, N. Ramírez, P.J. Rey, A. Traveset, M. Verdú y R. Zamora. 2015. Beyond species loss: the extinction of ecological interactions in a changing world. *Functional Ecology* 29: 299–307.
20. Cavallero, L., D.R. López, E. Raffaele y **M.A. Aizen**. 2015. Structural-functional approach to identify post-disturbance recovery indicators in forests from northwestern Patagonia: a tool to prevent state transitions. *Ecological Indicators* 52: 85-95.
21. Quintero, C., J.C. Corley y **M.A. Aizen**. 2015. Weak trophic links between a crab-spider and the effective pollinators of a rewardless orchid. *Acta Oecologica* 62: 32-39.

22. González-Varo, J., R. Albaladejo, **M.A. Aizen**, J. Arroyo y A. Aparicio. 2015. Extinction debt of a common shrub in a fragmented landscape. *Journal of Applied Ecology* 52: 580–589.
23. Garibaldi, L.A., I. Bartomeus, R. Bommarco, A. Klein, S. Cunningham, **M.A. Aizen**, V. Boreux, M. Garratt, L. Carvalheiro, C. Kremen, C. Morales, C. Schüepp, N. Chacoff, B. Freitas, V. Gagic, A. Holzschuh, B. Klatt, K. Krewenka, S. Krishnan, y M. Mayfield. 2015. Trait matching of flower visitors and crops predicts fruit set better than trait diversity. *Journal of Applied Ecology* 52: 1436–1444.
24. **Aizen, M.A.**, G. Gleiser, M. Sabatino, L.J. Gilarranz, J. Bascompte, y M. Verdú. 2016. The phylogenetic structure of plant-pollinator networks increases with habitat size and isolation. *Ecology Letters* 19: 29-36.
25. Chalcoff, V. y **M.A. Aizen**. 2016. Pollination unpredictability and ovule number in a South-Andean Proteaceae along a rainfall gradient. *Australian Journal of Botany* 64: 8-14.
26. Harder, L.D., **M.A. Aizen**, S.A. Richards, M.A. Joseph, y J.W. Busch. 2016. Diverse ecological relations of male gametophyte populations in stylar environments. *American Journal of Botany* 103: 484-497.
27. Harder, L.D., **M.A. Aizen**, y S.A. Richards. 2016. The population ecology of male gametophytes: the link between pollination and seed production. *Ecology Letters* 19: 497-509.
28. Tur, C., A. Sáez, A. Traveset, y **M.A. Aizen**. 2016. Evaluating the effects of pollinator-mediated interactions using pollen transfer networks: evidence of widespread facilitation in south Andean plant communities. *Ecology Letters* 19: 576-586.
29. De Palma, A., S. Abrahamczyk, **M.A. Aizen**, et al. 2016. Predicting bee community responses to land-use changes: effects of geographic and taxonomic biases. *Scientific Reports* 6:31153. doi:10.1038/srep31153
30. Bartomeus, I., D. Gravel, J.M. Tylianakis, **M.A. Aizen**, I.A. Dickie, y Maud Bernard-Verdier. 2016. A common framework for identifying linkage rules across different types of interactions. *Functional Ecology* 30: 1894-1903.
31. Potts, S.G., V. Imperatriz-Fonseca, H.T. Ngo, **M.A. Aizen**, J.C. Biesmeijer, T.D. Breeze, L.V. Dicks, L.A. Garibaldi, R. Hill, J. Settelem, y A.J. Vanbergen. 2016. Safeguarding pollinators and their values to human well-being. *Nature* 540: 220–229. doi: 10.1038/nature20588
32. Sáez A., C.L. Morales, L.A. Garibaldi, y **M.A. Aizen**. 2017. Invasive bumble bees reduce nectar availability for honey bees by robbing raspberry flower buds. *Basic and Applied Ecology* 19: 26-35.
33. Chalcoff, V.R., G. Gleiser, C. Ezcurra, y **M.A. Aizen**. 2017. Pollinator type and secondarily climate are related to nectar sugar composition across the angiosperms. *Evolutionary Ecology* 31: 585–602.

34. Willcox, B.K., **M.A. Aizen**, S.A. Cunningham, M.M. Mayfield, y R. Rader. 2017. Deconstructing pollinator community effectiveness. *Current Opinion in Insect Science* (doi: 10.1016/j.cois.2017.05.012)
35. Amico, G.C., Y. Sasal, R. Vidal-Russell, J.M. Morales, y **M.A. Aizen**. 2017. Consequences of disperser behaviour for seedling establishment of a mistletoe species. *Austral Ecology* 42: 900–907. (doi: 10.1111/aec.12517)
36. Arbetman, M.P., G. Gleiser, C. L. Morales, P. Williams, y **M.A. Aizen**. 2017. Global decline of bumblebees is phylogenetically structured and inversely related to species' range size and pathogen incidence. *Proceedings of the Royal Society B* 284: 20170204. (doi: 10.1098/rspb.2017.0204).
37. Garibaldi, L.A., S. Aguiar, **M.A. Aizen**, C.L. Morales, y A. Sáez. 2017. ¿Diversidad o dominancia en la producción de alimentos? El caso de los polinizadores. *Ecología Austral* 27: 340-347.
38. Geslin, B., **M.A. Aizen**, N. Garcia, A.J. Pereira, B. E. Vaissière, y L.A. Garibaldi. 2017. The impact of honey bee colony quality on crop yield and farmers' profit in apples and pears. *Agriculture, Ecosystems & Environment* 248:153-161. (doi:10.1016/j.agee.2017.07.035).
39. Gleiser, G., S.A. Lambertucci, K.L. Speziale, F. Hiraldo, J.L. Tella, y **M.A. Aizen**. 2017. The southernmost parakeet might be enhancing pollination of a dioecious ancient conifer. *Ecology* 98: 2969-2971.
40. Gleiser, G., I. Chybicki, S. González-Martínez, y **M.A. Aizen**. 2018. Phenological match drives pollen-mediated gene flow in a temporally dimorphic tree. *Plant Biology* 20: 93–100. (doi:10.1111/plb.12651)
41. Vanbergen, A.J, A. Espíndola, y **M.A. Aizen**. 2018. Risks to pollinators and pollination from invasive alien species. *Nature Ecology & Evolution* 2: 16–25.
42. Agüero, J.I., O. Rollin, J.P. Torretta, **M.A. Aizen**, F. Requier, y L.A. Garibaldi. 2018. Impactos de la abeja melífera sobre plantas y abejas silvestres en hábitats naturales. *Ecosistemas* (en prensa).
43. Speziale, K.L., S.A. Lambertucci, G. Gleiser, J.L. Tella, F. Hiraldo, y **M.A. Aizen**. 2018. An overlooked plant-parakeet mutualism counteracts human overharvesting on an endangered tree. *Royal Society Open Science* (en prensa).
44. **Aizen, M.A.**, C. Smith-Ramírez, C.L. Morales, L. Vieli, A. Sáez, R.M. Barahona-Segovia, M.P. Arbetman, J. Montalva, L.A. Garibaldi, D.W. Inouye, y Lawrence D. Harder. 2018. Coordinated global species-importation policies are needed to reduce the sting of serious invasions: the case of alien bumble bees in South America . *Journal of Applied Ecology* (en prensa).