

Curriculum vitae – as of March 1st, 2017

Personal Information

Name Alejandro Ordonez Gloria
Expertise Macroecology, Plant ecology, Biogeography, Paleoecology, Global Change Functional ecology, Vegetation sciences

Contact Information

Address (Work) Queens University, Belfast
School of Biological Sciences
Medical Biology Centre
97 Lisburn Road - Belfast [BT9 7BL]
United Kingdom
Website <http://alejandroordonezgloria.wordpress.com/>
Address (Personal) a.n.ordonez@gmail.com
Telephone
Nationality Colombian – Dutch resident
Date of birth May 13 de 1978

Educational Background:

- 2007-2011. *PhD* in Mathematics and Natural Sciences from the University of Groningen (Netherlands)
- 2005-2008. *MSc* in evolutionary biology from the University of Groningen (Netherlands) - *Cum laude*
- 2004-2003. *Specialist* in Natural Resources Management from the Universidad de Los Andes (Colombia)
- 1997-2003. *BSc* in biology from the Pontificia Universidad Javeriana (Colombia)

Professional Background

- 2017-Present *Lecturer*. School of Biological Sciences - Queens University (Belfast, United Kingdom)
- 2013-2017. *Research associate (Post-Doctoral)* Department of Bioscience – Section of Ecoinformatics and Biodiversity Aarhus University (Aarhus, Denmark)
- 2011-2013. *Research associate (Post-Doctoral)* Nelson Institute Center for Climatic Research (climate people and environment program) University of Wisconsin (Madison-WI, USA)
- 2007 *Research Intern* ECOGRID Project (Amsterdam, The Netherlands)
- 2006-2007 *Visiting exchange scholar* ARC-NZ Research network for Vegetation Function Macquarie University (Sydney Australia)
- 2003-2005 *Operations Manager* Prodycon Laboratories S.A (Bogota, Colombia)
- 2002 *Intern* Universidad de Murcia (Murcia, Spain)
- 1999 *Field Biologist* Prodycon Laboratories S.A (Bogota, Colombia)

Teaching Background

- 2017 Instructor: Comparative Approaches in Ecology, Evolution and Conservation Science (Transmitting Science, Barcelona - Spain)
- 2017-Current Lecturer: Global Change Biology (Queens University, Belfast - United Kingdom)
- 2016 Instructor: Comparative Approaches in Ecology and Evolution (International Advanced Courses in Demography, Max-Planck Institute in Demography, Rostock - Germany)
- 2014-2017 Instructor: Biology Research in Theory & Practice undergraduate course (Aarhus University, Aarhus - Denmark)
- 2014-2017 Lecturer: Biogeography & Macroecology course (Aarhus University, Aarhus - Denmark)
- 2013-Current Seminar coordinator: Ecoinformatics and Biodiversity graduate discussion seminar - (Aarhus University, Aarhus - Denmark)
- 2011-2013 Seminar coordinator: Center for Climatic Research (CCR), climate people and environment (CPEP) seminar - <http://ccr.aos.wisc.edu/resources/CPEP/seminars.php> (University of Wisconsin, Madison - USA)
- 2010 MSc Co-advisor: A. Hoschuiet - Niche conservatism in invasive plants <http://alejandroordonezgloria.wordpress.com/students/> (University of Groningen - Netherlands)
- 2011 MSc Co-advisor: E. Jongepier - Savannah woody species distribution is interactively driven by environmental filters, stochastic disturbances and clonal ability <http://alejandroordonezgloria.wordpress.com/students/> (University of Groningen - Netherlands)
- 2009-2010 Invited lecturer: Adaptation, Biocomplexity and Conservation: Analysis of ecological data using R. (University of Groningen - Netherlands)
- 2008-2010 Seminar coordinator: The use of R: Data management, data visualization, statistical analysis and graphics <http://alejandroordonezgloria.wordpress.com/teaching/> (University of Groningen - Netherlands)
- 2000-2002 Teacher assistant, invertebrate zoology, marine ecology and coral reefs (Pontificia Universidad Javeriana - Colombia)

Peer-Reviewed Publications

1. **Ordonez, A.** & Svenning, J-C. *Consistent role of Quaternary climate change in shaping current plant functional diversity patterns across European plant orders.* (2017). **Scientific Reports** 7:42988 (IF: 5.228) – DOI: <http://dx.doi.org/10.1038/srep42988>
2. Blonder B, Moulton DE, Bois J, Enquist BJ, Graae BJ, Macias Fauria M, McGill B, Nogue Bosch S, **Ordonez A**, Sandel B, Svenning JC. *Predictability in community dynamics* (2017) **Ecology Letters** 20(3): 293–306 (IF:10.689) – DOI: <http://dx.doi.org/10.1111/ele.12736>
3. **Ordonez, A.**, Williams, J.W. & Svenning, J.C. *Mapping climatic mechanisms likely to favour the emergence of novel communities.* (2016) **Nature Climate Change** 6(12):1104-9. (IF:17.184) – DOI: <http://dx.doi.org/10.1038/nclimate3127>
4. **Ordonez, A.** & Svenning, J-C. *Strong palaeoclimatic legacies in current plant functional diversity patterns across Europe.* (2016). **Ecology & Evolution** 6(10):3405-16 (IF: 2.32) – DOI: <http://dx.doi.org/10.1002/ece3.2131>

5. **Ordonez, A. & Svenning, J.-C.** Functional diversity of North America trees is codetermined by historical and contemporary environmental factor (2016) **Ecosphere** 7(2) (IF: 2.595) – DOI: <http://dx.doi.org/10.1002/ecs2.1237>
6. **Ordonez, A. & Svenning, J.-C.** (2015) Geographic patterns in functional diversity deficits are linked to glacial-interglacial climate stability and accessibility. **Global Ecology and Biogeography**, 24, 826-837. (IF: 7.242) – DOI: <http://dx.doi.org/10.1111/geb.12324>
7. Svenning, J. C., Eiserhardt, W. L., Normand, S., **Ordonez, A.**, & Sandel, B. (2015). The Influence of Paleoclimate on Present-Day Patterns in Biodiversity and Ecosystems. **Annual Review of Ecology, Evolution, and Systematics**, 46(1):551-572 (IF: 10.562) – DOI: <http://dx.doi.org/10.1146/annurev-ecolsys-112414-054314>
8. Garzon-Lopez, C.X., Ballesteros-Mejia, L., **Ordonez, A.**, Bohlman, S.A., Olf, H. & Jansen, P.A. (2015) Indirect interactions among tropical tree species through shared rodent seed predators: a novel mechanism of tree species coexistence. (2015) **Ecology Letters** 18(8): 752–760. (IF: 13.042) – DOI: <http://dx.doi.org/10.1111/ele.12452>
9. Maire, V., Wright, I.J., Prentice, I.C., Batjes, N.H., Bhaskar, R., van Bodegom, P.M., Cornwell, W.K., Ellsworth, D., Niinemets, Ü., **Ordonez, A.**, Reich, P.B. & Santiago, L.S. (2015) Global effects of soil and climate on leaf photosynthetic traits and rates. **Global Ecology and Biogeography**, 64, 706-717. (IF: 7.242) – DOI: <http://dx.doi.org/10.1111/geb.12296>
10. Lankau, R.A., Zhu, K. & **Ordonez, A.** (2015) Mycorrhizal strategies of tree species correlate with trailing range edge responses to current and past climate change. **Ecology**, 96, 1451-1458. (IF: 5.000) – DOI: <http://dx.doi.org/10.1890/14-2419.1>
11. van der Plas, F., Janzen, T., **Ordonez, A.**, Fokkema, W., Reinders, J., Etienne, R.S. & Olf, H. (2015) A new modeling approach estimates the relative importance of different community assembly processes. **Ecology**, 96, 1502-1515. (IF: 5.000) – DOI: <http://dx.doi.org/10.1890/14-0454.1>
12. Eiserhardt, W.L., Borchsenius, F., Plum, C.M., **Ordonez, A.** & Svenning, J.C. (2015) Climate-driven extinctions shape the phylogenetic structure of temperate tree floras. **Ecology letters**, 18, 263-72. (IF: 13.042) – DOI: <http://dx.doi.org/10.1111/ele.12409>
13. **Ordonez, A.**, Martinuzzi, S., Radeloff, V., Williams, J. Combined speeds of climate and land-use change of the conterminous U.S. until 2050. (2014) **Nature climate change** 4, 811–816 (IF: 15.295) – DOI: <http://dx.doi.org/10.1038/nclimate2337>
14. Veen, G. F., Freschet, G. T., **Ordonez, A.**, & Wardle, D. A. (2014). Litter quality and environmental controls of home-field advantage effects on litter decomposition. **Oikos** 124(2), 187–195 (IF: 3.559) – DOI: <http://dx.doi.org/10.1111/oik.01374>
15. Cornwell, W. Westoby, M. Falster, D.S. et al inc **Ordonez, A** (2014). Functional distinctiveness of major plant lineages. **Journal of Ecology** 102(2):345-356. (IF: 5.694) – DOI: <http://dx.doi.org/10.1111/1365-2745.12208>
16. **Ordonez, A.** (2014) Functional and phylogenetic similarity of alien plants to co-occurring natives. **Ecology** 95(5):1191–1202 (F1000 Recommended paper) (IF: 5.000) – DOI: <http://dx.doi.org/10.1890/13-1002.1>
17. **Ordonez, A.** (2014) Global meta-analysis of trait consistency of non-native plants between their native and introduced areas. **Global Ecology and Biogeography** 23(3):246-273 (IF: 7.242) – DOI: <http://dx.doi.org/10.1111/geb.12123>
18. Garzon-Lopez, C., Jansen, P., Bohlman, S., **Ordonez, A.** & Olf, H. (2014) Effects of Sampling Scale on Patterns of Habitat Association in Tropical Trees **Journal of Vegetation Science**. 25(2), 349-362 (IF: 3.372) – DOI: <http://dx.doi.org/10.1111/jvs.12090>

19. Williams, J.W. Blois, J. Gill, J. Gonzales, L.M., Grim, E.C., **Ordonez A.**, Shuman. B. Veloz, S.D (2013). Model systems for a no-analog future: species associations and climates during the last deglaciation. *Annals of the New York Academy of Sciences*, 1297:29-43 (IF: 4.375) – DOI: <http://dx.doi.org/10.1111/nyas.12226>
20. **Ordonez, A.**, (2013) Realized climatic niche of North American plant taxa lagged behind climate during the end of the Pleistocene. *American Journal Of Botany* 100(7):1255-1265 (IF: 2.463) – DOI: <http://dx.doi.org/10.3732/ajb.1300043>
21. **Ordonez, A.** & Williams, J. (2013) Comparing climatic and biotic velocities for woody taxa distributions over the last 16,000 years in eastern North America. *Ecology letters* 16(6):773-781 (IF: 13.042) – DOI: <http://dx.doi.org/10.1111/ele.12110>
22. **Ordonez, A.** & Williams, J. (2013) Projected climate reshuffling based on climate-analog and climate-velocity analyses: implications for community disaggregation. *Climate Change* 119: 659-675 (IF: 3.430) – DOI: <http://dx.doi.org/10.1007/s10584-013-0752-1>
23. **Ordonez, A.** & Olff, H. (2013) Do alien plant species profit more from high resource supply than natives? A trait-based analysis. *Global Ecology and Biogeography* 22:648-658 (IF: 7.242) – DOI: <http://dx.doi.org/10.1111/geb.12019>
24. **Ordonez, A.**; van Loon, E. & Bouten, W. (2011) Effects of population variability on the accuracy of detection probability estimates. *Anales de Biología* 33:149-160. (IF: 0.729) – <http://hdl.handle.net/10201/27363>
25. **Ordonez, A.**, Wright, I.J. & Olff, H.,(2010). Functional differences between native and alien species: a global-scale comparison. *Functional Ecology*, 24(6):1353–1361. (IF: 4.857) – DOI : 10.1111/j.1365-2435.2010.01739.x
26. **Ordonez, A.**; Garcia-Garcia, M.D. and Fagua, G. Evaluation of the collection efficiency of the Schoenly trap for collecting adult sarco-saprophagous dipterans. *Journal of Medical Entomology*. 45(3): 45(3): 522-532. (IF: 1.815) – DOI: <http://dx.doi.org/10.1093/jmedent/45.3.522>

Data publications:

1. Wright, I.J.; Royer, D.L.; **Ordonez, A.**; Oleksyn, J. and Reich P.B. Global Leaf Phenology Database. Data from: Three keys to the radiation of angiosperms into freezing environments. *Nature*. Dryad Digital Repository. <http://dx.doi.org/10.5061/dryad.63q27/5>. (2014).
2. Cornwell, W.K.; FitzJohn, R.; Stevens, P.F.; Calaminus, A.; Soltis, D.E.; Soltis, P.S.; Govaerts, R.; Wright, I.J.; Oleksyn, J.; Reich, P.B.; Royer, D.L.; Aarssen, L.; Hemmings, F.; Leishman, M.; Moles, A.T.; Swenson, N.G.; Warman, L.; Bertin, R.I. **Ordonez, A.** and Zanne, A.E. Global woodiness database Data from: Three keys to the radiation of angiosperms into freezing environments. *Nature*. Dryad Digital Repository <http://dx.doi.org/10.5061/dryad.63q27/5>. (2014).

Publications – in review or In Prep

1. **Ordonez, A.** & Svenning, J-C. A framework for integrating long-term historical drivers into macro-scale functional diversity analyses. *Global Ecology and Biogeography* (Submitted February 1st, 2017).

2. *Pither, J., Pickles B.J., **Ordonez, A.**, Williams, J.W. & Simard, S.W.* Ectomycorrhizal mutualisms facilitated rapid post-glacial expansion of tree distributions **Nature Climate change** (Submitted. January 19th, 2017)
3. ***Ordonez, A.**, Svenning, J-C. & Van der Putten, W.* How to catch an exotic? Ecology and evolution of introduced exotics under enemy accumulation **Journal of Ecology** (Submitted November 30th 2016).
4. *Capitan JA, Cuenda S, Ordonez A, Alonso D.* Significant competitive dominance in mid-latitude European plant communities **Nature Communications** (Second revision Submitted December 20th, 2016).
5. ***Ordonez, A.** & Svenning, J-C.* Mismatch between species and functional diversity geographic patterns across Northern temperate forests. **Global Ecology and Biogeography** In prep
6. ***Ordonez, A.**, Svenning, J-C,* BIEN initiative participants' Long-term historical factors as co-determinants of plant functional diversity across the New World. **Ecology** In Prep.
7. *Cordlandweh, V.; **Ordonez, A.**; Ozinga, W. Bakker, J.P.* - Habitat filters acting both, on species and individuals **Oikos** In prep

Non-Peer-Reviewed Publications

1. *Ordonez, A.*, Understanding plant invasions: A global scale meta-analysis. *ISBN 978-90-367-5016-5*
2. *Williams, J; Ordonez, A; Notaro, M; Veloz, S and Vimont D.* 2012 Climatic analogs, climate velocity, and potential shifts in vegetation structure and biomass for Wisconsin under 21st-century climate-change scenarios – technical report Wisconsin Environmental and Economic Research and Development Program

Presentations at Scientific Meetings

1. *Mapping climatic mechanisms likely to favour the emergence of novel communities* International Biogeography society 8h Biennial Conference – 2017 Tucson-AZ, USA
2. *Functional diversity of North American broad-leaved trees is codetermined by past and current environmental factors* Ecological Society of America (ESA) 2016 meeting – Fort Lauderdale – FL.
3. *Ecological Novelty in the Anthropocene: Are Novel Communities Novel Ecosystems?.* **Symposia organizer** Ecological Society of America (ESA) 2016 meeting – Fort Lauderdale – FL.
4. *New Perspectives for Ecology during the Anthropocene: New Paradigms, Technologies and Collaborations.* **Organized oral session organizer** Ecological Society of America (ESA) 2015 meeting – Baltimore – MA
5. *Combined speeds of climate and land-use change of the conterminous US until 2050* Ecological Society of America (ESA) 2015 meeting – Baltimore – MA
6. *Long-term historical effects on functional diversity and potential impacts on ecosystem functioning.* International Biogeography society 7th Biennial Conference – 2015 Bayreuth, Germany
7. *Island Biogeography, From the Oceans to the Sky: Recent Advances and an Emerging Synthesis.* **Symposia organizer** Ecological Society of America (ESA) 2014 meeting – Sacramento – CA

8. *Quaternary climate change and plant functional diversity patterns- Linking Organismal Traits to Community Dynamics session*. Gordon research conference in Metabolic Ecology 2014 Biddeford – MA
9. *Climatic and biotic velocities for woody taxa distributions over the last 16,000 years in eastern North America*. Ecological Society of America (ESA) 2013 meeting - Minneapolis – MN
10. *Rapid Climate Change and Species Range Shifts: Observations, Predictions, and Management*. **Symposia organizer**. Ecological Society of America (ESA) 2013 meeting - Minneapolis – MN
11. *Comparing climatic and biotic velocities for woody taxa distributions over the last 16,000 years in eastern North America*. International Biogeography society 6th Biennial Conference – 2013 Miami (FL) – USA
12. *Quaternary Climate-Change Rates Influence Tree Species Range Shifts*. Gordon research conference in Metabolic Ecology 2012 Biddeford – MA
13. *Do alien plant species profit more from high resource availability than natives? A trait-based analysis*. Ecological Society of America (ESA) 2012 meeting - Portland –OR
14. *Spatial and habitat components of native-alien functional differentiation*. Ecological Society of America (ESA) 2011 meeting - Austin –TX
15. *Within-species changes in traits between the native and introduced range of alien plants: a global scale comparison* Netherlands Annual Ecology Meeting (NERN) 2011 Lunteren – The Netherlands
16. *Spatial and habitat components of native-alien functional differentiation*. International Biogeography society 5th Biennial Conference – 2011 Crete – Greece
17. *Niches Vs. Phylogenies: dissecting similarity patterns of species invasion*. Ecological Society of America (ESA) 2010 Pittsburgh – PA
18. *Do the modulation of traits by climatic factors changes between native and alien species? A global test*. Gordon research conference in Metabolic Ecology 2010 Biddeford – MA
19. *Trait similarity between alien plants and the native vegetation: Darwin’s naturalization conundrum revisited*. 9th international Meeting on Vegetation Databases 2010 Hamburg – Germany
20. *Contrasting exotics native and introduced range trait combination: a test to the trait preservation hypothesis*. Ecological Society of America (ESA) 2009 Albuquerque – NM
21. *Comparison of trait strategies of co-occurring native and exotic plants: implications for predicting successful introductions*. International Biogeography society 4rd Biennial Conference 2009 Merida – Mexico
22. *Effects of population variability on the accuracy of detection probability estimates*. Society for Conservation GIS 11Th Annual Conference 2008 Monterrey – California
23. *Exploring Patterns of Functional Diversity In African Termites*. International Biogeography society 3rd Biennial Conference 2007 Tenerife – Spain
24. *Effect of climate change on Southern Africa termites*. Macroecological Tools for Global Change Research 2006 Potsdam – Germany
25. *Savanna Termites In A Changing Climate*. Gordon research conference in Metabolic Ecology 2006 Lewiston – ME
26. *Sarcosaprophagous Fauna Associated with Decay Rabbit Colleted with the Modified Schoenly Trap*. XXII International Congress Of Entomology 2004 Brisbane – Australia
27. *Comparison of the adult sarcosaprophagous diptera collected with the modified Schoenly trap Vs. the Traditional Methodology*. XXXI National Congress Of Entomology 2004

Bogotá – Colombia (*Awarded Francisco Galician Luis best undergraduate Prize, 2005 Version*)

Scholarships and prizes

- Travel grant for a poster presentation at DIVERSITAS Open Science Conference – 2009 (Cape Town South Africa)
- Ubbo Emmius Doctoral scholarship – University of Groningen
- MSc in evolutionary biology from the University of Groningen (Netherlands) - *Cum laude*
- Top-Master Scholarship for the Master in Evolutionary Biology – University of Groningen
- Francisco Luis Gallego, best undergraduate Prize, 2005 Version. XXXI National Congress of Entomology 2004 Bogotá – Colombia
- Agencia Española de Cooperación Internacional para el Desarrollo (AECID) internship program scholarship – January to March 2000

Professional Society Membership(s)

- 2007-current Member of the International Biogeography society (IBS)
- 2011-current Member of the Ecological Society of America (ESA)

Academic and professional references

Name: Prof. Jens-Christian Svenning.

Position: Professor Department of Bioscience - Ecoinformatics and Biodiversity

Address: Ny Munkegade 116 building 1540, 8000 Aarhus C Denmark

E-mail: svenning@biology.au.dk

Phone: +45 (871) 56571

Name: Prof. John Williams.

Position: Professor Geography Department University of Wisconsin Madison

Address: Center for Climatic Research (CCR) 225 W. Dayton St. 53706-Madison (WI); USA

E-mail: jww@geography.wisc.edu

Phone: +1 (608) 265-5537

Name: Prof. Wim van der Putten

Position: Head of Department Terrestrial Ecology
Netherlands Institute of Ecology

Address: Droevendaalsesteeg 10, 6708 PB Wageningen

E-mail: W.vanderPutten@nioo.knaw.nl

Phone: +31 (0)317 473 599

Name: Prof. Han Olf.

Position: Professor Groningen Institute for Evolutionary Life Sciences (GELIFES)

Address: Nijenborgh 7 9747 AG-Groningen; The Netherlands

E-mail: h.olf@rug.nl

Phone: +31 (503) 632-214

Phone: +31 (503) 632 230

Name: Prof. Ian Wright.

Position: Lecturer Department of Biological Sciences, Macquarie University

Address: Macquarie University 2109, Australia

E-mail: ian.wright@mq.edu.au

Phone: +61 (298) 504 228