

CONTACT AND PERSONAL

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Status: Married, father of Nicolas (11) and Noa (9)

ACADEMIC TRAINING

- 2004 – 2008** **PhD.** Awarded with the **Extraordinary Doctorate Award** from the Department of Ecology (equivalent to *Summa Cum Laude*; year's best dissertation of the department)
Universidad de Alcalá, Madrid, Spain (Prof. José Maria Rey Benayas) and **Pyrenean Institute of Ecology-Advanced Research Council of Spain (CSIC)**, Zaragoza, Spain (Prof. Francisco A. Comin Sebastian).
- 1993 – 2000** **B Eng.** Universidad Politécnica de Madrid, Spain. **Forest Engineering** (6 years program).

RESEARCH POSITIONS

- 2020 –** Assistant Professor. Department of Landscape Architecture. Graduate School of Design. Harvard University. Cambridge, USA.
- 2014 – 2019** Ikerbasque Research Associate. Basque Centre for Climate Change – BC3. Leioa, Spain.
- 2013 – 2014** Research fellow. Centre D'Ecologie Fonctionnelle & Evolutive – CNRS (1 year), Montpellier (France)
- 2012 – 2013** Jasper Ridge Restoration Fellow. Stanford University (1.7 years). Jasper Ridge Biological Preserve.
- 2011** Postdoctoral fellow. University of California, Berkeley (1 year). National Centre for Earth-surface Dynamics Postdoctoral Fellow. PI: Prof. Mary E. Power.
- 2009 – 2010** Postdoctoral fellow. University of California, Berkeley. (2 years). Postdoctoral Fellow. Postdoctoral Mobility Fellowship, Spanish Ministry of Innovation and Science. PI: Prof. Mary E. Power.

PROFESSIONAL POSITIONS

- 2014 –** **Vice-president. Fundación Internacional para la Restauración de Ecosistemas.** Branches in Spain, Chile, and Paraguay
- 2001 – 2004** *Pirinea Consultores Tecnicos, SL.* (Spain). Department chair. Main tasks: Managing tasks, environmental impact assessments, rural tourism development, and environmental studies.

PUBLICATIONS

I have 41 published papers in indexed journals (32), peer-reviewed books (5), and broad audience science magazines (4). I have been the first author in 52% of the papers. I have accumulated >1,500 citations and my H-index is 19 (according to Google Scholar). From those indexed papers,

71% are in the first quartile of its category. My publications include first author papers in *Nature Communications* (IF=11) and *PLoS Biology* (IF=12), and collaborations in *Nature* (IF=42), and *Trends in Ecology and Evolution* (IF=15) (IF of the year of publication).

ARTICLES IN PEER-REVIEWED JOURNALS (ALTMETRIC SCORES AT URL)

42. Moreno-Mateos D, Alberdi A, Morriën E, van der Putten WH, Montoya D, Rodríguez Uña A. Restoring ecosystem complexity. In review in *Nature in Ecology and Evolution*.
41. **Moreno-Mateos D**, Rodríguez Uña A, Gamio A. 2019. The mining industry in Artikutza (Navarre, Spain) since the middle ages and its legacy on forests. *Munibe Monographs*. In press.
40. **Moreno-Mateos D**, Rodríguez Uña A. 2019. Restaurando interacciones para recuperar la complejidad y la funcionalidad de los ecosistemas. *Ecosistemas*. In press.
39. Jones HP, Jones PC, Barbier EB, Rey Benayas JM, Holl KD, McCrackin ML, Meli P, Montoya D, **Moreno-Mateos D**. 2018. Restoration and repair of Earth's damaged ecosystems. *Proceedings of the Royal Society of London B: Biological Sciences* 285:20172577. **Featured in** [Phys.org](#), [Science Daily](#), [Chicago Tribune](#), [Science Newsline](#), among others.
38. Gerstner K, **Moreno-Mateos D**, Gurevitch J, Beckmann M, Kambach S, Jones HP, Seppelt R. 2017. Will your paper be used in a meta-analysis? Make the reach of your research broader and longer-lasting. *Methods in Ecology and Evolution* 8:777–784.
37. Meli P, Holl KD, Rey Benayas JM, Jones HP, Jones PC, Montoya D, **Moreno-Mateos D**. 2017. A Global Review of Past Land Use, Climate, and Active vs. Passive Restoration Effects on Forest Recovery. *PLoS ONE* 12:e0171368
36. **Moreno-Mateos D**, Barbier EB, Jones PC, Jones HP, Aronson J, Lopez-Lopez JA, McCrackin ML, Meli P, Montoya D, and Rey Benayas JM. 2017. Anthropogenic ecosystem degradation and the recovery debt. *Nature Communications* 8:14163. Database: *Dryad* Digital Repository. <https://doi.org/10.5061/dryad.t5c97>
35. McCrackin ML, Jones HP, Jones PC, **Moreno-Mateos D**. 2017. Incomplete recovery of lakes and coastal marine ecosystems from eutrophication: A global meta-analysis. *Limnology and Oceanography* 62:507–518.
34. Hudson LW, Newbold T, Contu S,... **Moreno Mateos D**,... Purvis A. 2017. The database of the PREDICTS (Projecting Responses of Ecological Diversity in Changing Terrestrial Systems) project. *Ecology and Evolution*
33. Aronson J, Clewell A, **Moreno Mateos D**. 2016. Ecological restoration and ecological engineering: Complementary or indivisible? *Ecological Engineering* 92:392-395.
32. **Moreno-Mateos D**, Maris V, Bechet A, and Curran M. 2015. The true loss caused by biodiversity offsets. *Biological Conservation* 192:552-559.
31. **Moreno-Mateos D**, Meli P, Aronson J, and Vara, MI. 2015. Ecosystem response to interventions: Lessons from restored and created wetland ecosystems. *Journal of Applied Ecology* 53: 1528–1537. Database: *Dryad* Digital Repository <https://doi.org/10.5061/dryad.71r6q>
30. Aronson J, Murcia C, Kattan GH, **Moreno-Mateos D**, Dixon K, Simberloff D. 2014. The road to confusion is paved with novel ecosystem labels: a reply to Hobbs et al. *Trends in Ecology and Evolution* 29:646-647.
29. Murcia C, Aronson J, Kattan G, **Moreno-Mateos D**, Dixon K, Simberloff D. 2014. A 'critique' to the novel ecosystems concept. *Trends in Ecology and Evolution* 29:548-553. **Top 8 most downloaded paper from the journal website in the first 2 years after publication.**

28. Barbier E, **Moreno-Mateos D**, Rogers AD, Aronson J, Pendleton L, Van Dover CL, Danovaro R, Henry L- A, Morato T, Ardron J. 2014. Protect the deep sea. *Nature* 505:475-477.
27. Donovan B, **Moreno Mateos D**, Osborne J, Bisaccio D. 2014. Revising the Economic Imperative for STEM Education. *PLOS Biology* 12: e1001760.
26. Van Dover C, Aronson J, Pendleton L, Smith S, Arnaud-Haond S, **Moreno-Mateos D**, Barbier E, Billett D, Bowers K, Danovaro R, Edwards A, Kellert S, Morato T, Pollard E, Rogers A, Warner R. 2014. Ecological Restoration in the Deep Sea: Desiderata. *Marine Policy* 44:98-106.
25. **Moreno Mateos D**. 2013. Is Embracing Change Our Best Bet? *Science* 341: 458-459.
24. Abraho R, Causape J, **Moreno-Mateos D**, Comin, F. 2013. Nitrate and salt water contamination associated with the transition of an agrarian basin into an irrigated area. *Water Environment Research* 85:105-112.
23. **Moreno-Mateos D**, Power ME, Comin FA, and Yockteng R. 2012. Structural and functional loss in restored wetland ecosystems. *PLOS Biology* (10)1:e1001247. **Featured in *Nature* 481(7383):8 and *PLOS Biology* 10(1):e1001248. Also, featured in hundreds of newspapers and news websites from over 10 countries. Selected examples are: [The New York Times](#), [Los Angeles Times](#), [Mother Jones](#), [Science Daily](#), and [MongaBay](#).**
22. **Moreno-Mateos D**, Rey Benayas JM, Pérez-Camacho L, de la Montana E, and Rebollo S. 2011. Effects of land use type on the nocturnal birds of a Mediterranean agricultural landscape. *Acta Ornithologica* 41: 173-182.
21. Rey Benayas JM, de la Montaña E, Pérez Camacho L, de la Cruz M, **Moreno-Mateos D**, Parejo, J.L., and Suárez Seoane, S. 2010. Inter-annual dynamics and spatial congruence of a nocturnal bird assemblage inhabiting a Mediterranean agricultural mosaic. *Ardeola* 57:303-320.
20. **Moreno-Mateos D** and Comín FA. 2010. Integrating objectives and scales for planning and implementing wetland restoration in agricultural catchments. *Journal of Environmental Management* 91:2087-2095. **Featured on the European Commission's news service *Science for Environment Policy* Special Issue 32:1.**
19. **Moreno-Mateos D**, Mander Ü, Comín FA, and Pedrocchi C. 2010. Optimal Location of Created and Restored Wetlands in Mediterranean Agricultural Catchments. *Water Resources Management* 24:2485-2499.
18. Martín E, **Moreno-Mateos D**, and Pedrocchi C. 2010. Hydrochemical disturbances in Mediterranean streams affected by agricultural intensification. *Environmental Monitoring and Assessment* 167:423-435.
17. **Moreno-Mateos D**, Pedrocchi C, and Comín FA. 2010. Influences of constructed wetlands on water quality in a semi-arid catchment degraded by intensive agricultural use. *Ecological Engineering* 36:631-639.
16. **Moreno-Mateos D**, Comín FA, Causapé J, and Pedrocchi C. 2009. The use of wetlands as buffering systems for nitrate release from irrigated agriculture in a semiarid watershed under land use transformation. *Wetlands* 29:1104-1113.
15. **Moreno-Mateos D**, Pedrocchi C, and Comín FA. 2009. How wetland features influence on the structure of recent bird communities in irrigated agricultural catchments: design and management implications. *Biodiversity and Conservation* 18:811–828.
14. **Moreno-Mateos D**, Pedrocchi C, and Comín FA. 2008. Creation of wetlands for the improvement of saline soils degraded by agricultural uses in semi-arid areas. *Applied soil ecology* 40:57-66.

13. **Moreno-Mateos D**, Mander Ü, Comín FA, Pedrocchi C, and Uuemaa E. 2008. Relationships between landscape patterns, wetland characteristics, and runoff water quality in agricultural catchments. *Journal of Environmental Quality* 37:2170-2180.
12. Comín FA, **Moreno D**, and Pedrocchi C. 2008. Scenarios for the management of aquatic bird communities and wetland restoration after intensive agricultural land use and extensive land use cover changes in semi-arid territories. *Verh. Internat. Verein. Limnol.* 30, Part 4:657-661.
11. Pedrocchi C, **Moreno-Mateos D**, and Cervantes-Vallejos J. 2007. Comunidades nidificantes de aves en pastos supraforestales pirenaicos. Su evolución a lo largo del año. *Pirineos* 162:109-124.
10. **Moreno D**, Pedrocchi C, Comin FA, and Cabezas A. 2007. Creating wetlands for the improvement of water quality and landscape restoration in semi-arid zones degraded by intensive agricultural use. *Ecological Engineering* 30:103-111. **Most downloaded article from the journal website (April to June 2007).**
9. Comín FA, Menéndez M, Pedrocchi C, Moreno S, Sorando R, Cabezas A, García M, Rosas V, **Moreno D**, González E, Gallardo B, Herrera JA, and Ciancarelli C. 2005. Wetland Restoration: Integrating Scientific-Technical, Economic, and Social Perspectives. *Ecological Restoration* 23:182-186.

BOOK CHAPTERS

8. **Moreno Mateos D**. 2018. Wetland restoration and creation: An overview. In: Finlayson M, *et al.* eds. *The Wetlands Book. Vol. I: Structure and Function, Management and Methods*. Springer. Pp. 1965-1975.
7. **Moreno Mateos D**, Palmer MA. 2016. Watershed processes as drivers for aquatic ecosystem restoration. In: Palmer MA, Falk DA, Zedler JB, eds. *Foundations of Restoration Ecology*. 2nd Edition. Island Press. Pp. 395-423. **Most sold textbook on restoration ecology.**
6. Ruhí A, Fairchild GW, Spieles DJ, Becerra-Jurado G, **Moreno-Mateos D**. 2016. Chapter 15. Constructed and restored wetlands. In: Batzer D, Boix D Eds. *Invertebrates in Freshwater Wetlands: An international perspective on their ecology*. Springer. Pp. 525-564.
5. **Moreno Mateos D**, Aronson J. 2015. Pertes écologiques potentielles associées aux actions compensatoires de la restauration écologique. In: Levrel H, Frascaria-Lacoste N, Hay J, Martin G, eds. *Restaurer la nature pour atténuer les impacts du développement*. Quae, Versailles. Pp. 210-215.
4. Aronson J, **Moreno Mateos D**. 2015. Restauration écologique : Présent et futur, surtout à grande échelle. In: Levrel H, Frascaria-Lacoste N, Hay J, Martin G, eds. *Restaurer la nature pour atténuer les impacts du développement*. Quae, Versailles. Pp. 162-169.

PUBLICATIONS IN BROAD AUDIENCE MAGAZINES

3. **Moreno Mateos D**. 2015. Límites de la restauración de humedales. *Investigación y Ciencia* 467:50-57 (Spanish edition of *Scientific American*).
2. **Moreno-Mateos, D**. 2012. Pushing the envelope of ecological restoration and ecosystem creation. *The Scientist*. Available at: <http://www.the-scientist.com/?articles.view/articleNo/33314/title/Opinion--Rescuing-Ecosystems/> **Featured in the Society for Ecological Restoration Newsletter 26(3-4):6.**
1. Perez, L., Rey., J.M., de la Montaña, E., **Moreno-Mateos, D.**, Rebollo, S., and Parejo, J.L. 2011. Las aves nocturnas en el paisaje agroforestal del Campo de Montiel. *Quercus* 306:16-25.

COMPETITIVE GRANTS AND FELLOWSHIPS AWARDED (TOTAL ~€2.7 MILLION)

- 2019 – 2020** *The recovery of ecosystem interactions from Norse impacts in Greenland* (MDM-2017-0714) Plan Nacional I+D+i. National Research Agency. 16.000 €. Role: Principal investigator-
- 2016 – 2019** *Estimating recovery time of temperate forests after anthropogenic impacts along a complexity gradient* (CGL2015-70452-R) Plan Nacional R+D+i RETOS. National Research Agency. 172,000 €. Role: Principal Investigator.
- 2014 – 2015** *Feedbacks between biodiversity and ecosystem functions and services during the recovery process of restored ecosystems after anthropogenic disturbance.* National Socio-ecological Synthesis Centre (SESYNC; USA) – iDiv, UFZ (Germany). Amount: \$80,000. Role: Principal investigator.
- 2012 – 2013** *Mechanisms driving structural and functional loss in restored ecosystems.* Stanford University (USA). Amount: \$168,000. Role: Recipient fellow.
- 2011 – 2014** *Creation and restoration of aquatic ecosystems to improve water quality and Biodiversity in agricultural catchments.* European Commission. Type: LIFE+ Environment. Amount: €1,850,000. Role: Proposal coordinator.
- 2009 – 2010** *Ministry for Innovation and Science of Spain.* Type: Postdoctoral fellowship. Amount: \$60,000. Role: Recipient fellow
- 2007 – 2008** *Diputación Provincial de Huesca (Spain).* Type: Research fellowship. Amount: €4,500. Role: Principal Investigator.
- 2006 – 2008** *Spanish Research Council (CSIC) and Gobierno de Aragon.* Type: PhD scholarship. Amount: €15,000. Role: Recipient student
- 2007** *Caja de Ahorros de la Inmaculada and Gobierno de Aragón.* Type: Research scholarship. Amount: €3,000. Role: Recipient student
- 2004 – 2006** *Spanish Research Council (CSIC).* Type: PhD scholarship. Amount: €24,000. Role: Recipient student

SUPERVISION AND TEACHING

Supervision

- 2018 – 2019** *Javier Porrás.* Master's thesis supervisor. Master on Ecosystem Restoration. Universidad de Alcalá. Spain.
- 2018 – 2019** *Alvaro Moreno.* Master's thesis supervisor. Master on Ecosystem Restoration. Universidad Complutense de Madrid. Spain.
- 2017 – 2018** *Guillermo Asens.* Master's thesis supervisor. Master on Ecosystem Restoration. Universidad de Alcalá. Spain.
- 2017 – 2018** *David Lizaso.* Master's thesis supervisor. Master on Agrobiology. University of the Basque Country. Spain.
- 2017** *Xabier Salgado.* Soft Skills Undergraduate Program. Universidad del País Vasco, Spain.
- 2017 – 2018** *Pablo Rhodes.* Master's thesis supervisor. Master on Ecosystem Restoration. Univesidad de Alcalá, Madrid, Spain.
- 2016 – 2019** *Asun Rodriguez.* PhD student supervisor. Universidad del País Vasco, Spain.
- 2016** *Nadia Darwiche.* PhD Committee member. Universidad de Zaragoza, Spain.
- 2014** *Paula Meli.* PhD Committee member. Universidad de Alcalá de Henares, Spain.
- 2012 – 2013** *Minh Chau Ho.* Honor's thesis supervisor. Stanford University.
- 2010 – 2011** *Maria Isabel Vara Rodriguez.* Master's thesis supervisor. Universidad de Alcalá de Henares, Spain

2007 *Almudena Rodriguez Vila*. Degree's thesis supervisor. Universidad de Santiago de Compostela. Escuela Superior de Ingenieros Agronomos.

Teaching

2018 – 2019 Universidad de Alcalá (Madrid, Spain). Master on Ecosystem Restoration. Lecturer, class “Processes and references in restoration”.

2014 – 2018 Universidad el País Vasco (Basque Country, Spain). Environmental Science Degree. Lectures on Introduction to Ecosystem Restoration.

2011 – 2017 Fundación Internacional para la Restauración de Ecosistemas (Spain), Instituto Nacional de Ecología y El colegio de la Frontera Sur (México). Diplomado en línea: “Restauración de Ecosistemas y Servicios Ambientales”. Four-hour lectures and ~40 student evaluations.

2014 Paris Institute of Technology for Life, Food and Environmental Sciences (France). Master: "Environmental management of ecosystems and tropical forests". Master lecturer. 6 hour/year.

2012 – 2013 Stanford University. Undergraduate science apprentice program. No. students: 4.

2009 – 2012 University of California, Berkeley. Undergraduate science apprentice program. No. students: 5.

SERVICE

Panel member

Section Biodiversity, Earth Science, and Global Change, subsection Biodiversity. Spanish National Plan for R+D+I, 2016.

Reviewer

National Environmental Research Council Fellowship program NERC (UK, 2014)

National Oceanic and Atmospheric Administration NOAA (Restore act program, 2016)

International expert groups

IPBES, leading author in the Land degradation and restoration Assessment (2017 – 2018).

Co-Chair in a Eklipse working group “What is hampering the effectiveness of existing approaches that aim to restore biodiversity and ecosystem function and services?” H2020 Project, coordinated by Centre for Ecology and Hydrology, UK (2018 – 2019).

Associate editor

Journal of Applied Ecology, Ecological Restoration.

Editor

Section J. *Wetland restoration and creation*. Wetland management. In: Finlayson, M. *The Wetlands Book*. Springer, New York.

Editor of the Special Issue on Restoration of Ecosystem Complexity for *Ecosistemas* (journal of the Iberian Society of Ecology).

Scientific committees' member

Co-chair in the next joint meeting Iberian Society of Ecology and British Ecological Society proposed for 2023 to be held in Bilbao (Spain).

8th World Conference on Ecological Restoration, Cape Town. 2019. Organized by the Society of Ecological Restoration.

IX European Wetlands Congress. Huesca, Spain. 2014. Organized by the Society of Wetland Scientists.

Reviewer

Frontiers in Ecology and Evolution, PLoS Biology, Journal of Applied Ecology, Biological Conservation, Scientific Reports, Environmental Science and Technology, Biodiversity and Conservation, Oryx, Ecological Engineering, Geoderma, Hydrological Processes, Journal of Environmental Management, Environmental Management, Journal of Environmental Quality, Journal of Arid Environments, Applied Soil Ecology, Bird Conservation International, Biotropica, Biological Invasions, Restoration Ecology, Ecosistemas, North-eastern Naturalist, Herpetological Conservation and Biology, Wetlands Ecology and Management, Ecological Restoration, Rangeland Ecology and Management, and Ecology and Society.

Societies membership

Present:

Spanish Ornithological Society/Birdlife, since 1989

Society for Ecological Restoration, since 2005

British Ecological Society, since 2015

Past:

Ecological society of America, between 2009 and 2013.

American association for the Advance of Science, between 2010 and 2013.