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EDUCATION

Ph.D., Ecology, University of Alcalá (UAH) - Alcalá de Henares, Madrid (Spain) - **October 2006**

*Thesis: Habitat selection by different-sized herbivores and their effects on the vegetation: the role of the European rabbit (*Oryctolagus cuniculus*) in dehesa ecosystems*

B.S., Environmental Management, University of Wolverhampton - Wolverhampton, UK - **June 2000**

Honours Thesis: Black Vulture conservation status in Majorca island (Spain)

B.S., Biological Sciences (specialization in Zoology), University of Extremadura (UEX) - Badajoz (Spain) - **June 1998**

RESEARCH INTERESTS

Biodiversity, biogeography, conservation, ecological theory, evolutionary ecology, forest, fragmentation, functional traits, global ecology, macroecology, community phylogenetics, spatial patterns, species distribution, vertebrate ecology

RESEARCH & WORKING EXPERIENCE

Marie Curie Postdoctoral fellow: Estación Biológica de Doñana (EBD-CSIC)	2016-Present
Visiting researcher: Instituto Recursos Naturales Sevilla (IRNAS-CSIC)	2014
Postdoctoral fellow at Prof. Bradford A. Hawkins lab (University of California, Irvine) Funded through a Spanish Ministry Postdoctoral and Fulbright Fellowship	2011-2013
Postdoctoral Associate University of Alcalá	2007-2010
PhD fellow: University of Alcalá (UAH). Funded through a Spanish Ministry Predoctoral Fellowship	2001-2006
Short stage at Community and Conservation Ecology group, University of Groningen, Netherlands, with Prof. Han Olff	2003
Short stage at Rangeland Ecosystem Science Department and Natural Resource Ecology Lab. Colorado State University, Fort Collins, with Prof. Daniel Milchunas	2002
Research assistant fellow in the Department of Animal Biology (University of Extremadura, UEX) Funded by Ministerio Español de Ciencia y Tecnología.	1999

PUBLICATIONS

23. - ŠÍMOVÁ I.*, RUEDA M.*, HAWKINS B.A. 2017. Stress from cold and drought as drivers of functional trait spectra in North American angiosperm tree assemblages. **Ecology and Evolution** (10.1002/ece3.3297) *Equal contribution

22. - **RUEDA M.**, GODOY O., HAWKINS B.A. 2017. Trait syndromes among North American trees are evolutionary conserved and show adaptive value over broad geographic scales. **Ecography** (10.1111/ecog.03008)
21. - **RUEDA M.**, GODOY O., HAWKINS B.A. 2017. Spatial and evolutionary parallelism between shade and drought tolerance explains the distributions of conifers in the conterminous United States. **Global Ecology and Biogeography** 26: 31-42
20. - GODOY O., **RUEDA M.** 2016. National forest inventories as a tool for understanding the evolution, maintenance and functioning of species diversity. **Ecosistemas** 26: 80-87 (10.7818/ECOS.2016.25-3.09)
19. - **RUEDA M.**, Sanz J.C.M-, Morales-Castilla I., Albuquerque F.S., Ferrero M., Rodríguez M.A. 2015. Detecting fragmentation extinction thresholds for forest understory plant species in Peninsular Spain. **Plos One**: 0126424
18. - GODOY O., **RUEDA M.**, HAWKINS B.A. 2015. Functional determinants of forest recruitment over broad scales. **Global Ecology and Biogeography** 24: 192-202
17. - HAWKINS B.A., **RUEDA M.**, RANGEL T.F., FIELD, R., DINIZ-FILHO J.A. 2014. Community phylogenetics at the biogeographical scale: cold tolerance, niche conservatism and the structure of North American forests. **Journal of Biogeography** 41: 23-38.
16. - **RUEDA M.**, RODRÍGUEZ M.Á., HAWKINS B.A. 2013. Identifying global zoogeographical regions: lessons from Wallace. **Journal of Biogeography** 40: 2215-2225.
15. - **RUEDA M.**, HAWKINS B.A., MORALES-CASTILLA I., VIDANES R.M., FERRERO M., RODRÍGUEZ M.Á. 2013. Does fragmentation increase extinction thresholds? A European-wide test with seven forest birds. **Global Ecology and Biogeography** 22: 1282-1292.
14. - **RUEDA M.**, REBOLLO S., GARCIA-SALGADO G. 2013. Contrasting impacts of different-sized herbivores on species richness of Mediterranean annual pastures differing in primary productivity. **Oecologia** 172: 449-459.
13. - ALBUQUERQUE F.S., CASTRO-DÍEZ P., **RUEDA M.**, HAWKINS B.A., RODRÍGUEZ M.Á. 2011. Relationships of climate, residence time, and biogeographical origin with the range sizes and species richness patterns of exotic plants. **Plant Ecology** 212: 1901-1911.
12. - ALBUQUERQUE F.S., ASSUNÇÃO-ALBUQUERQUE M.J.T., GÁLVEZ-BRAVO L., CAYUELA L., **RUEDA M.**, REY-BENAYAS J.M. 2011. Identification of Critical Areas for Mammal Conservation in the Brazilian Atlantic Forest Biosphere Reserve. **Natureza & Conservação, Brazilian Journal of Nature Conservation** 9: 73-78.
11. - **RUEDA M.**, HAWKINS B.A., RODRÍGUEZ M.Á. 2010. Towards a biogeographic regionalization of the European biota. **Journal of Biogeography** 37: 2067-2076.
10. - ALBUQUERQUE F.S., **RUEDA M.** 2010. Effects of fragmentation and habitat loss on woody species richness in Great Britain. **Forest Ecology & Management** 260: 472-479.
9. - ZAFRA-CALVO N., LOBO J. M., ALBUQUERQUE F. S., CABEZAS F., ESPIGARES T., OLALLA-TÁRRAGA M.Á., PÉREZ DEL VAL J., **RUEDA M.**, VELAYOS M., RODRÍGUEZ M.Á. 2010. Deriving species richness, endemism, and threatened species patterns from incomplete distribution data in the Bioko Island, Equatorial Guinea. **Natureza & Conservação, Brazilian Journal of Nature Conservation** 8: 1-5.

8. - **RUEDA M.**, REBOLLO S., RODRÍGUEZ M.Á. 2010. Grazing and habitat productivity influence the vertical distribution of root mass in a semi-arid Mediterranean ecosystem. **Acta Oecologica** 36: 377-382.
7. - MONTOYA D., ALBUQUERQUE F.S., **RUEDA M.**, RODRÍGUEZ, M.Á. 2010. Species response patterns to habitat fragmentation: do trees support the extinction threshold hypothesis? **Oikos** 119: 1335-1343.
6. - **RUEDA M.**, REBOLLO S., GÁLVEZ-BRAVO L. 2009. Response to Delibes-Mateos et al.: Pellet size matters. **Acta Oecologica** 35: 485-487.
5. - BINI L.M., DINIZ-FILHO J.L.F., RANGEL T.F.L.V.B., AKRE T.S.B., ALBALADEJO R.G., ALBUQUERQUE F.S., APARICIO A., ARAÚJO M.B., BASELGA A., BECK K., BELLOCQ M.I., BÖHNING-GAESE K., BORGES P.A.V., CASTRO-PARGA I., CHEY V.K., CHOWN S.L., DE MARCO JR.P., DOBKIN D.S., FERRER-CASTÁN D., FIELD R., FILLOY J., FLEISHMAN E., GÓMEZ J.F., HORTAL J., IVERSON J.B., KERR J.T., KISSLING W.D., KITCHING I.J., LEÓN-CORTÉS J.L., LOBO J.M., MONTOYA D., MORALES-CASTILLA I., MORENO J.C., OBERDORFF T., OLALLA-TÁRRAGA M.A., PAUSAS J.G., QIAN H., RAHBEK C., RODRÍGUEZ M.A., **RUEDA M.**, RUGGIERO A., SACKMANN P., SANDERS N.J., TERRIBILE L.C., VETAAS O.R., HAWKINS B.A. 2009. Parameter estimation in geographical ecology: an empirical evaluation of spatial and non-spatial regression. **Ecography** 32: 193-204.
4. - TERRIBILE L.C., OLALLA-TÁRRAGA M.Á., MORALES-CASTILLA I., **RUEDA M.**, VIDANES R.M., RODRÍGUEZ M.Á., DINIZ-FILHO J.L.F. 2009. Global richness patterns of venomous snakes reveal contrasting influences of ecology and history in two different clades. **Oecologia** 159: 617-626.
3. - HAWKINS B., **RUEDA M.**, RODRIGUEZ M. Á. 2008. What Do Range Maps and Surveys Tell Us About Diversity Patterns? **Folia Geobotanica** 43: 345-355.
2. - **RUEDA M.**, REBOLLO S., GALVEZ-BRAVO L. 2008. Age and season determine European rabbit habitat use in Mediterranean ecosystems. **Acta Oecologica** 34: 266-273.
1. - **RUEDA M.**, REBOLLO S., GALVEZ-BRAVO L., ESCUDERO A. 2008. Habitat use by large and small herbivores in a fluctuating Mediterranean ecosystem: the implications of body size and seasonal changes. **Journal of Arid Environments** 72: 1698-1708.

In Revision

BERNARDO-MADRID R, CALATAYUD J, GONZÁLEZ-SUAREZ M, ROSVALL M, LUCAS PM, **RUEDA M**, ANTONELLI A, REVILLA E. Human impacts on the world's zoogeographical regions. In Review **Nature Communications**

KOERNER S.E., SMITH M.D., BURKEPILE D.E., HANAN N., AVOLIO M.L., COLLING S.L., KNAPP A.K., LEMOINE N.P., FORRESTEL E.J., EBY S., THOMPSON D.I., & THE GRAZING EXCLOSURE CONSORTIUM. Changes in plant dominance drive global variation in herbivore effects on plant biodiversity. In Review **Nature Ecology and Evolution**

Edited Book Chapter

GÁLVEZ-BRAVO L, LÓPEZ-PINTOR A, DE MIGUEL JM, ALONSO G, **RUEDA M**, REBOLLO S, GÓMEZ-SAL A. 2008. Ecosystem engineering effects of European rabbits in a Mediterranean habitat. In **Lagomorph Biology**, 125-139. Springer Berlin Heidelberg.

RESEARCH GRANTS

- 2017-2019 **INTRARISK**: Determinantes naturales y antropogenicos del riesgo de extinción: El papel de la variación intraespecifica en la vulnerabilidad. Proyectos I+D+I Jovenes Investigadores (MINECO) CGL2015-73583-JIN (127,000 €), PI: **Marta Rueda**
- 2016-2018 **DRIVE**: Quantifying the relative importance of natural and anthropogenic drivers of spatial variation in vulnerability to predict species extinction risk. Marie Curie FI-Reintegration (European commission, grant agreement 707587; 157,000 €), PI: **Marta Rueda**
- 2015-2017 Identificación de síndromes sensibles a la fragmentación del hábitat en plantas y aves del Holártico. National Project (MINECO, 130,000 €), PI: M.A. Rodríguez, **M.Rueda** participates as a Team Member.
- 2007-2010 Procesos ecológicos clave en pastizales mediterráneos: herbivoría y dinámica de especies vegetales (CGL2007-60661/BOS). National Project (MINECO, 130,000 €), PI: A. Geomez-Sal, **M.Rueda** participation as a Postdoctoral researcher
- 2006-2009 Huella humana y gradientes globales de diversidad de vertebrados terrestres (GLC2006-03000/BOS). National Project (CYCIT, 99,000 €), PI: M. A. Rodríguez, **M.Rueda** participation as a Postdoctoral researcher.
- 2003-2006 Regulación de la herbivoría por factores ecológicos y de gestión. El papel de una especie clave (*Oryctolagus cuniculus* L.) en los pastizales mediterráneos (REN2003-05553/GLO). National Project (CYCIT, 155,000 €), PI: A. Gómez Sal, **M.Rueda** participation as a Predoctoral researcher.
- 2001-2003 P apel de los herbívoros grandes y medianos en la regulación de la diversidad biológica de pastizales mediterráneos (REN2000-0783-GLO). National Project (CYCIT, 88,000 €), PI: A. Gómez Sal, **M. Rueda** participation as a Predoctoral researcher.

PRESENTATIONS

- RUEDA M.** 2017. Novel clustering methods as powerful research tools for ecologists: a case study using affinity propagation. **XIV MEDECOS & XIII AEET MEETING.**
- RUEDA M.** 2017. Spatial and evolutionary parallelism between shade and drought tolerance explains the distributions of conifers in the conterminous United States. **8th Biennial conference of the international Biogeography Society**
- KOERNER S.E., M.D. SMITH, D.E. BURKEPILE, M. ANDERSON, M.L. AVOLIO, S. EBY, E. FORRESTEL, N. LEMOINE, D.I. THOMPSON, GRAZING EXCLOSURE CONSORTIUM. 2015. Responses of diversity and dominance to grazing: A global synthesis. **Ecological Society of American 100th Meeting & 13th European Ecological Federation Conference (ILTER session).**
- RUEDA M. 2015. Evolutionary determinants of species distributions: a case study with North American conifers. **XII AEET MEETING.**
- HAWKINS, B.A., **RUEDA, M.**, RANGEL, T.F., FIELD, R. & DINIZ-FILHO, J.A.F. Community phylogenetics at the biogeographic scale: cold tolerance, niche conservatism and the structure of North American forests. **6th International conference of the International Biogeography Society**
- FERRERO, M., MORALES-CASTILLA, I., **RUEDA, M.**, MORENO SAIZ, J.C. & RODRÍGUEZ, M.Á. Biogeographic patterns of forest fragmentation at global and regional scales. **6th International conference of the International Biogeography Society**
- RUEDA, M.**, HAWKINS, B. A., MORALES-CASTILLA, I., VIDANES, R. M. & RODRÍGUEZ, M. Á. 2011. Does fragmentation increase extinction thresholds? A Western European-wide test in seven forest specialist birds. **5th International conference of the International Biogeography Society**

- RODRÍGUEZ, M.A., OLALLA-TARRAGA, M.A., BASCOMPTE, J., HAWKINS, B.A., BINI, L.M., **RUEDA, M.**, VIDANES, R. & DINIZ-FILHO, J.A. 2009. Forest fragmentation and the conservation of European bird diversity. **16th Annual conference of the Wildlife Society**
- GÁLVEZ, L., LÓPEZ-PINTOR, A., **RUEDA, M.**, DE MIGUEL, J.M., ALONSO, G., REBOLLO, S. & GÓMEZ-SAL, A. 2007. ¿Qué factores determinan el tamaño de los vivares naturales de conejo? **VII Jornadas de la Sociedad Española para la conservación y estudio de los mamíferos**
- RUEDA, M.**, GÁLVEZ-BRAVO, L. & REBOLLO, S. 2005. Diferencias estacionales en la selección del hábitat de conejos (*Oryctolagus cuniculus*) adultos y subadultos en un ecosistema de dehesa. **VI Jornadas de la Sociedad Española para la conservación y estudio de los mamíferos.**
- RUEDA, M.**, REBOLLO, S. & GARCÍA-SALGADO, G.J. 2005. Effects of different-sized herbivores on plant diversity of Iberian Mediterranean semi-arid pastures. **X European Ecological Congress**
- RUEDA, R.**, & S. REBOLLO. 2005. Papel ecológico del conejo (*Oryctolagus cuniculus*) en los ecosistemas mediterráneos: sus efectos como herbívoro. **2º Congreso Ibérico de Ecología**
- LÓPEZ-PINTOR, A., GÁLVEZ-BRAVO, L., **RUEDA, M.**, REBOLLO, S. & DE MIGUEL, J.C. 2004. Ecological factors affecting spatial distribution of rabbit warrens in a dehesa landscape of central Spain. **A landscape perspective on Mediterranean Vertebrate Ecology**
- RUEDA, M.**, REBOLLO, S., GÁLVEZ, L., ESCUDERO, A. & GÓMEZ-SAL, A. 2004. Habitat use by European rabbit (*Oryctolagus cuniculus*) in a Mediterranean dehesa of Central Spain: an ecosystem approach. **Second World Lagomorph Conference**
- LÓPEZ-PINTOR, A., DE MIGUEL, J., ALONSO, G., GÁLVEZ, L., **RUEDA, M.**, SORIA, M., REBOLLO, S. & GOMEZ SAL, A. 2004. European rabbit strategy on space occupancy in a Mediterranean 'dehesa' landscape. **Second World Lagomorph Conference**
- LÓPEZ-PINTOR, A., GÁLVEZ, L., **RUEDA, M.**, REBOLLO, S. & GOMEZ SAL, A. 2001. The role of rabbit (*Oryctolagus cuniculus*) in the dynamics of Mediterranean Ecosystems: results and new perspectives. **I Congreso Internacional sobre el conejo de monte, como recurso cinegético y ecológico**

MENTORING

- Master Thesis: Definición estandarizada de ecoregiones funcionales para vertebrados terrestres para un mejor seguimiento del cambio global. Carlos Fernandez Marin (Estación Biológica de Doñana, EBD-CSIC) 2017
- PhD Thesis: RISK IMPACT: Linking vulnerability with species and community threat responses in biodiversity conservation. Nicola Bernardo (Estación Biológica de Doñana, EBD-CSIC) Funded by INPhINIT, La Caixa Fellowship Program 2017-2020

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Memberships: The International Biogeography Society, Asociación Española de Ecología Terrestre

Journal Reviews: Global Ecology & Biogeography, Ecography, EcoScience, Biological Journal of Linnean Society, Acta Oecologica, Mammalian Biology, Canadian Journal of Zoology, European Journal of Wildlife Research, Biodiversity and Conservation, PlosOne, Journal of Vegetation Science

Grant Reviews: National Research Projects of the National Science Foundation (2013), National Research Projects of the Spanish Agency of Research (since 2016)

Next appointment as associate editor of Journal of Animal Ecology!!!