

CURRICULUM VITAE

María Piquer-Rodríguez
[ORCID](#) [ResearchGate](#) [Publons](#)

EDUCATION

06. 2011 – Doctoral candidate Geography Department, Humboldt-Universität zu Berlin, Germany
 04. 2017 *Thesis: Effects of policies and zoning on future land use in Argentina.*
 Advisor: Prof. Dr. Tobias Kuemmerle; Grade: *Magna Cum Laude*
09. 2004- Master on Geo-Information Science, Wageningen University, The Netherlands
 08. 2006 *Thesis: Modelling land-use changes in south-eastern Spain using a Markovian approach*
 Advisors: Dr. Raul Zurita-Milla, Dr. Javier Cabello Piñar
- 2003-2005 Certificate of research proficiency. Dep. of Plant Biology and Ecology, Univ. Almería, Spain.
 Minor thesis: *Predictions of land use changes using two descriptive and basic models: applications to the Iberian southeast.* Advisor: Dr. Javier Cabello Piñar
- 2003-2004 Teaching certificate (CAP in Spanish). University Complutense of Madrid, Spain.
- 2003-2004 Expert in International Cooperation for Sustainable Development. Univ. of Oviedo, Spain.
09. 1998- Bachelor in Environmental Sciences, University of Almeria, Spain. (Highest cohort mark)
 07. 2003

PROFESSIONAL EXPERIENCE

- 11.2017 - Post-doctoral researcher at the Institute of Regional Ecology (IER)-CONICET. National
 present University Tucuman, Argentina. PI: Ricardo Grau
- 05.2017 – Post-doctoral researcher at the Geography Department, Humboldt-Universität zu Berlin,
 08.2018 Germany. PI: Tobias Kuemmerle
- 11.2010 - Research assistant at the Geography Department, Humboldt-Universität zu Berlin,
 04.2017 Germany. PIs: Patrick Hostert and Tobias Kuemmerle
- 01.2008 - Spatial and GIS analyst (GIS coordinator). Urban Research Center, University of Western
 05.2010 Sydney, Australia. Director: Philip O'Neil
- 10.2007 - GIS and Remote Sensing Teaching-contractor. School of Environment and Life Sciences.
 10.2009 University of Newcastle, Australia.
- 11 – 12.2006 GIS Researcher. Alterra Research Center, Wageningen, The Netherlands.
- 03 – 07.2006 Intern. Department of Biotope and landscape protection. German Federal Agency for
 Nature conservation, Bonn. Germany.
- 2002 - 2004 Non-doctor researcher. Department of Plant Biology and Ecology, Univ. of Almeria, Spain.
- 1999 - 2001 Student collaborator. Department of Applied Biology, University of Almeria. Spain.

AWARDS AND FELLOWSHIPS

- 10-11.2017 DAAD presentation travel award, Rufford Small Grant Workshop, National University
 Tucuman, Argentina
- 07-08. 2015 DAAD research stay fellowship (57044996) at Stanford University and Univ. Berkeley
 (California, USA)

07. 2015 DAAD conference travel award for the IALE Conference, July 2015. Portland. Oregon
- 2014-2015 Graduate Programm Adlershof Women in Science(Advanced), Humboldt-University Berlin
- 2012 Graduate Programm Adlershof Women in Science (Basic), Humboldt-University Berlin
- 2011-2012 Elsa Newman Foundation of the state of Berlin. Doctoral studies at the Geography Department, Humboldt Universität zu Berlin. Declined after one year (job contract)
- 2007 Leonardo da Vinci- Project Argo II Internship Grant. Landscape Center. Alterra, Wageningen. The Netherlands
- 2006 - 2007 Grant for Research initiation of the Instituto de Estudios Almerienses. Diputación de Almería. Dept. of Ecology and Environment. Project: *Fragmentation and loss of natural habitats in the province of Almeria (Spain): an evaluation of future impacts of land use change using Geographical Information Systems*
- 2006 Alter-Net Summer School: Biodiversity and Ecosystem Services. September 2006. Organized by Postdam Institute for Climate Impact Research. Pyresque, France
- 2005 Student assistant at the Department of Landscape Ecology. WUR, Wageningen. The Netherlands.
- 2002-2003 Scholarship - Spanish Ministry of Education and Culture: *Collaboration in university departments* at the Department of Plant Biology and Ecology, Univ. of Almería. Spain
- 2001 - 2002 ERASMUS/Socrates Fellowship (undergraduate studies abroad). Departments of Geography and Ecology, University of Glasgow, Scotland

PAST & CURRENT RESEARCH PROJECTS

11. 2017 – 2020 Globalization, Teleconnections and Land-use Changes in Latin America in the 21st century. PICT- 2015 0521 (PI: Ricardo Grau – National University Tucuman, Argentina)
09. 2016-12. 2018 Pathways to sustainable land management in Northern Argentina - PASANOA (*German Research Foundation*, PI: Tobias Kuemmerle - Humboldt-University Berlin)
- 2010 - 2011 Land-use change, protected areas and biodiversity in European Russia (*German Research Foundation*, PIs: Patrick Hostert & Tobias Kuemmerle - Humboldt-University Berlin)
- 2008 - 2010 Feeding Sydney. Urban Research Centre. University of Western Sydney. PI: Sarah James.
- 2008 - 2009 An audit of Land uses of the Sydney Basin using Remote Sensing Techniques. Urban Research Centre. College of Health and Science Research Grant, University of Western Sydney. PI: Maria Piquer-Rodriguez
- 2006 Effects of global changes on ecosystem biodiversity and function by the identification of sensitive and reference areas in the Iberian SE. Excellence Project 2005 of the Junta de Andalucía, Dept. of Plant Biology and Ecology. University of Almería, Spain. PI: Javier Cabello. (Student assistant)
- 2003 - 2004 Development of applicable tools to criteria definition and strategies design for conservation of endemic flora of the SE arid Iberia. Dept of Plant Biology and Ecology. Univ. of Almería, Spain. PI: Julio Peña. (Student assistant)
- 2002 - 2004 Biological Diversity of Almería. Department of Plant Biology and Ecology. University of Almería, Spain. PI: Javier Cabello. (Student assistant)
- 1999 - 2001 Cave Artropodofauna study of Sierra de Gádor. Department of Applied Biology. University of Almería, Spain. PI: Pablo Barranco. (Student assistant: one spp. with my surname: *Neobisium piqueri* - http://www.sea-entomologia.org/PDF/RIA_4/R04-001-003.pdf)

TEACHING

Master level

- 2017 Ecosystem services and global dynamics (Humboldt-Universität zu Berlin, Module 13 Hr.)
- 2012 Land System Science (Humboldt-Universität zu Berlin, Seminar 1 Hr.)
- 2005 Remote Sensing course (GRS 20306) (Wageningen University. The Netherlands , Practicals 32 Hrs.)

Bachelor level

- 2018 Landscape Ecology (National University Tucuman, 2Hrs)
- 2016, 2017 Conservation Biogeography (Humboldt-Universität zu Berlin, Practicals, 4 Hrs.)
- 2015 Geographic Information Systems M6 (Humboldt-Universität zu Berlin, Practicals, 32 Hrs.)
- 2007-2009 GIS and Remote Sensing (School of Environment and Life Sciences, University of Newcastle, Australia, Seminar, 12 Hrs.)

Students supervision

- 2015 Ms. Verena Fehlenberg (master level) „The role of soybean and cattle ranching in deforestation in the Gran Chaco” (co-advisor)
- 2017 Ms. Lena Krupp (master level). “ The effect of actors in deforestation and forest fragmentation in the Argentine Chaco” (second supervisor)

SCIENTIFIC PUBLICATIONS

Torrella S. A., **Piquer-Rodríguez M.**, Levers C., Ginzburg R., Gavier-Pizarro G., and Kuemmerle T. (2018) Multiscale spatial planning to maintain forest connectivity in the Argentine Chaco in the face of deforestation. *Ecology and Society* 23(4):37.

Piquer-Rodríguez, M., Baumann, M., Butsic, V., Gasparri N.I., Gavier Pizarro G., Volante, J.N., Müller, D., Kuemmerle T. (2018). “The potential impact of economic policies on future land-use conversions in Argentina” *Land Use Policy* 79:57-67.

Nolte C., Gobbi B., Le Polain de Waroux Y., **Piquer-Rodríguez M.**, Butsic V., Lambin E.F. (2018). "Challenges in Attributing Avoided Deforestation to Policies and Actors: Lessons From Provincial Forest Zoning in the Argentine Dry Chaco." *Ecological Economics* 150: 346-352.

Piquer-Rodríguez, M., Butsic, V., Gärtner, P., Macchi, L., Baumann, M., Gasparri N.I., Gavier Pizarro G., Volante, J.N., Kuemmerle T. (2018). "Drivers of agricultural land-use change in the Argentine Pampas and Chaco regions." *Applied Geography* 91: 111-122.

Fehlenberg V., Baumann M., Gasparri N.I., **Piquer-Rodríguez M.**, Gavier Pizarro G., Kuemmerle T. (2017) The role of soybean expansion as underlying driver of deforestation in the South American Chaco. *Global Environmental Change* 45.

Nolte C., Gobbi B., Le Polain de Waroux Y., **Piquer-Rodríguez M.**, Butsic V., Lambin E.F. (2017) Decentralized land use zoning reduces large-scale deforestation in a major agricultural frontier. *Ecological Economics* 136, 30-40.

Kuemmerle, T. [...] **Piquer-Rodríguez M.** [...] (2017) When highlighting dry forests in need of conservation, don't forget the Gran Chaco. *Science (letter)* 355(6324): 465–465.

Baumann M., Israel C., **Piquer-Rodríguez M.**, Gavier Pizarro G., Volante J.N., Kuemmerle T. (2017) Deforestation and cattle expansion in the Paraguayan Chaco 1987-2012. *Regional Environmental Change*. DOI: 10.1007/s10113-017-1109-5

Baumann, M., Gasparri, I., **Piquer-Rodríguez, M.**, Gavier Pizarro, G., Griffiths, P., Hostert, P. and Kuemmerle, T. (2016), Carbon emissions from agricultural expansion and intensification in the Chaco. *Global Change Biology*. doi:10.1111/gcb.13521

Piquer-Rodríguez M., Torella S., Gavier-Pizarro G., Volante J., Somma D., Ginzburg R., Kuemmerle T. (2015) Effects of past and future land conversions on forest connectivity in the Argentine Chaco. *Landscape Ecology* 30(5): 817-833

Bragina E.V., Ives A.R., Pidgeon A.M., Kuemmerle T., Baskin L.M., Gubar Y.P., **Piquer-Rodríguez M.**, Keuler N.S., Petrosyan V.G., Radeloff V.C. (2015) Rapid declines of large mammal populations after the collapse of the Soviet Union. *Conservation Biology* 29(3): 844–853

Piquer-Rodríguez M., Kuemmerle T., Alcaraz-Segura D., Zurita-Milla R., Cabello J (2012) Future land use effects on the connectivity of protected area networks in southeastern Spain. *Journal for Nature Conservation* 20(6):326-336

Alcaraz Segura, D., Paruelo, J.M., Oyonarte Gutiérrez, C., **Piquer Rodríguez, M.**, Cabello Piñar, J. (2004) "Ecosystems functional types of the Iberian Peninsula. Implications for the global change and biodiversity conservation". *Ecosistemas* nº 2

SCIENTIFIC PRESENTATIONS (ORAL AND POSTER)

Piquer-Rodríguez M., Baumann, M., Butsic V., Gavier-Pizarro G., Volante J., Gasparri I., Müller D., Kuemmerle T. The potential impact of economic policies on future land-use conversions in Argentina. IUFRO World Congress October 2018. Posadas, Argentina. (oral)

Piquer-Rodríguez M., Gasparri I., Zarba L., Aide M., Graesser J., Grau H.R. Deforestation divergences in transboundary ecoregions of South-America. . IUFRO International Congress October 2018. Posadas, Argentina. (oral)

Piquer-Rodríguez M. Forzantes de cambio de uso de la tierra y escenarios futuros en Argentina. Rufford Small Grant – UNT Workshop October 2017. Tucuman, Argentina (oral).

Piquer-Rodríguez M., Butsic V., Gärtner P., Macchi, L., Baumann, M., Gavier-Pizarro G., Volante J., Gasparri I., Kuemmerle T. Alternative economic policies and future land-use in northern Argentina. GLP October 2016 (oral)

Piquer-Rodríguez M., Butsic V., Gavier-Pizarro G., Volante J., Gasparri I., Kuemmerle T. Drivers and scenarios of agricultural expansion in the Argentine Chaco. CISEN, Mar de Plata, Argentina. October 2015 (poster)

Piquer-Rodríguez M., Butsic V., Gavier-Pizarro G., Volante J., Gasparri I., Gärtner P., Kuemmerle T. Drivers of agricultural expansion in Argentina. 19th IALE Conference, Portland-Oregon. July 2015 (oral)

Piquer-Rodríguez M., Torrella,S., Gavier-Pizarro, G., Volante J., Somma D., Guinzburg R., Adamoli J., Kuemmerle T. Exploring policy options to curb future deforestation in the Argentine Chaco. International

Biogeography Society Conference, Bayreuth. January 2015 (poster)

Piquer-Rodríguez M., Torrella,S., Gavier-Pizarro, G., Volante J., Somma D., Guinzburg R., Adamoli J., Kuemmerle T. Past and future land conversions effects on habitat connectivity in the Argentine Chaco. Global Land Project Conference, Berlin. October 2014 (oral).

E.V. Bragina, Ives A.R., Pidgeon A.M., Kuemmerle T., Baskin L.M., **Piquer-Rodríguez M.**, Keuler N.S., and Radeloff V.C. Decrease of game mammal populations after Soviet Union collapse. 19th Annual Conference of The Wildlife Society, Portland, OR, October 13-18, 2012 (poster).

Piquer-Rodríguez M. , Kümmerle T., Zurita-Milla R., Alcaraz-Segura D., Cabello-Piñar J. 2011 Future land use land conservation priority sites for southeastern Spain. IALE-D, Berlin. October 2011 (oral)

Piquer-Rodríguez M 2009. Land Uses of the Sydney Basin in 2009. Food Summit. Food Fairness Alliance, Sydney. December 2009 (oral)

Piquer-Rodríguez M., Crabtree L and O'Neill P (2008) Historical revision of the spatial data and methods used for land use mapping in a dynamic urban area of NSW: The Sydney Basin case. *ARCNSISS National Conference*, Adelaide, Australia, December 2008 (oral)

Piquer M., Zurita R., Cabello J., Alcaraz D., Croempvoets J., Bunce R. Land-use change detection in arid environments in South East Spain. IALE world congress 2007. Wageningen, The Netherlands. July 2007 (poster)

Cabello J., Alcaraz D., **Piquer M.** Land Use change in Almería (SE Spain): Predictions for the Role of Protected Areas. Symposium Biodiversity Loss in Europe. Almería, March 2005 (oral).

Cabello J., Alcaraz D., **Piquer M.**, Perez-Caballero, D., Cueto, M. The Role of Protected Areas in Conservation Agro-Diversity: An example from Cabo de Gata-Nijar Natural Park (SE Spain). Symposium Biodiversity Loss in Europe. Almería, March 2005 (oral).

Alcaraz D., Paruelo J. , **Piquer M.**, Cabello J. Ecosystem and protected areas functioning: National Spanish Parks Network. VI Workshop on Ecology, SIG and Remote Sensing, Univ. of Almería. December 2004 (oral).

Cabello J., **Piquer M.**, Alcaraz D. Ecosystems conservation in the Southeast of Spain: Is it enough with the current protected areas?. VI Workshop on Ecology, SIG and Remote Sensing, University of Almería December 2004 (oral).

Piquer Rodríguez M. , Giménez Miralles M., Molina Serrano M. , Fenoy Portillo C. "Contingent valuation of the national hydrologic plan in Almería's province ". IV Iberic congress on water management and planning. Fundación Nueva Cultura del Agua. Tortosa, December 2004 (oral).

Donadio, N., Cabello J., **Piquer M.**, Alcaraz D., Schwarzer H., Peñas J. "Plant Diversity conservation versus agricultural and tourist development in Arid Ecosystems. The habitat of *Linaria nigricans* in the SE Iberian Peninsula (SW Europe)" 4th European Conference on the Conservation of Wild Plants (PLANTA EUROPA). Valencia, September 2004 (oral).

Barranco,P.; Mayoral,J.G; Ruiz-Portero,C.; Amate,J., García-Pardo,J.; **Piquer,M** ; Ortega,D. A decade of exploration: biodiversity caves in Almería (1994-2004). XI Iberic Congress of entomology . Minute's book. Funchal, September 2004. University of Madeira (oral).

Alcaraz Segura D., Paruelo J. M., Oyonarte Gutiérrez C., **Piquer Rodríguez M.**, Cabello Piñar J. "Functional characterization of Iberian ecosystems" LINKECOL. Mallorca, May 2004 (oral)

BOOKS AND BOOK'S CHAPTERS

Baumann, M.; **Piquer-Rodríguez, M.**; Fehlenberg, V.; Gavier-Pizarro, G.; Kuemmerle, T. 2016. The South American Gran Chaco: In the Middle of a Competition between Agricultural Production and Nature Conservation. In: Niewöhner, J. (et al) (eds): Land Use Competition: Ecological, Economics and Social Perspectives. Pp: 215-229. Springer. DOI 10.1007/978-3-319-33628-2_13

Gavier Pizarro, G.; Calamari, N.; **Piquer-Rodríguez, M.**; Kuemmerle, T. 2014. Scenario analysis applied to landscape planning (El método de construcción de escenarios aplicado al ordenamiento territorial). In: Paruelo JM, Jobbágy EG, Laterra P, Dieguez H, García Collazo, MA and Panizza, A (eds): Landscape Planning: Concepts, Methods and experiences. (Ordenamiento Territorial: Conceptos, Metodologías y Experiencias). FAO / MAG/ UBA 2014, pp. 217-240. ISBN 978-92-5-308619-1

Barranco, P.; Mayoral, J.G; Ruiz-Portero, C.; Amate, J., García-Pardo, J.; **Piquer, M.**; Ortega, D.; Salavert, V.; Ruiz Avilés, F.; Lara, M.D. y Tinaut, A. 2004 "Endokarstic fauna from Andalucía" In: Research in spanish karstic systems . Andreo, B y Durán, J.J. Ed. Instituto Geológico Minero de España.

Cabello Piñar, J.; Contreras López, S.; **Piquer Rodríguez, M.** (Eds) 2001. " Jornadas Científicas: Agricultura, Agua y Sostenibilidad en la provincia de Almería", Junta de Andalucía.

OTHER PROFESSIONAL EXPERIENCE (VOLUNTARY WORK)

2009-present	Reviewer for: Australian Geographer Journal; Journal for Nature Conservation; Land Use Policy; Landscape and Urban Planning; Ecosystems; Environment, Development and Sustainability; Agriculture, Ecosystems and Environment.
2018-2019	Organizer Soapbox Science Tucuman 2019
2017	Speaker at the Soapbox Science Germany 2017
2015	Speaker at the Girl's Day Germany 2015- Humboldt University Berlin
2014, 2016	Long Night of Science- Lange Nacht der Wissenschaft (organization of activities, Geography Department of the HU Berlin)
2003-2005	President of the Association of Environmental Sciences Graduates in Almeria (ALCA Almeria), Spain
2002-2003	Vice-President of the Association of Environmental Sciences Students of the University of Almeria (POSIDONIA), Spain
1999-2003	Student representative at the Experimental Sciences Faculty of the University of Almeria
