

# Ana M. Martín González

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- Personal data** **E-mail:** ana.maria.martingonzalez@gmail.com  
**Date of birth:** 10/09/1981  
**Academic address:** Pacific Ecoinformatics and Computational Ecology Lab, 1604 McGee Ave., Berkeley, 94703 CA, USA and Center for Macroecology, Evolution and Climate, Department of Biology, Universitetsparken 15, DK-2100 Copenhagen, Denmark.  
**Nationality:** Spanish
- Present Occupation** Postdoctoral Researcher at Pacific Ecoinformatics and Computational Ecology Lab  
Affiliated Postdoctoral Researcher at the Center for Macroecology, Evolution and Climate, Copenhagen University.
- Education** **PhD, 2010** Autonomous Univ. of Barcelona, Spain  
“Temporal dynamics of a plant-pollinator Mediterranean network”, *Suma cum laude*. Supervised by Jordi Bosch and Anselm Rodrigo (Autonomous Univ. of Barcelona). PhD Committee: Jeff Ollerton (Univ. Northampton, UK), Javier Retana (CREAF, Autonomous Univ. of Barcelona, Spain) and Martina Stang (Univ. Leiden, Netherlands). Including short stays at the Pacific Ecoinformatics and Computational Ecology Lab (Berkeley, USA), the Rocky Mountain Biology Lab (Colorado, USA) and Aarhus University (Denmark)).
- MSc, 2006** Aarhus University, Denmark  
MSc. Thesis: “Network analysis in pollination communities”. Supervised by Jens M. Olesen (Aarhus University). Including 10 ECTS at University of Helsinki (Finland).
- BSc, 2005** Autonomous Univ. of Madrid, Spain  
300 ECTS including 60 ECTS as Erasmus student at Aarhus University. Final Dissertation: “Spatial patterns in butterfly-larval host plants networks across Danish faunistic regions”. Supervised by Enrique García-Barros (Autonomous University of Madrid) and Jens M. Olesen (Aarhus University).
- Mentoring experience** I am currently **co-supervising two PhD students from Brazil** (J. Bugoni and P. Maruyama from Universidade Estadual de Campinas, co-supervisors B. Dalsgaard (Univ. Copenhagen) and M. Sazima (Universidade Estadual de Campinas)) and **one MSc student from Denmark** (Jesper Sønne, Univ. Copenhagen; co-supervisor B. Dalsgaard (Univ. Copenhagen)). Prior to this I have **co-supervised four BSc students from Denmark** (A. Timmermann, L. Andersen, V. Lund & E. Mortensen; co-supervisors B. Dalsgaard and J. Olesen (Univ. of Aarhus)).
- Training in relevant scientific courses** **2013.** MITx 6.00.1x Introduction to Computer Science and Programming.  
**2011.** São Paulo School on Ecological Networks, São Paulo, Brazil.  
**2009.** Introduction to Pollination Biology. Dr. Amots Dafni (University of Haifa, Israel). University of Barcelona, Spain.  
**2008.** Complex Systems Summer School, Santa Fe Institute, USA.

## Technical skills

**Computing skills:** Proficiency in network analysis tools and software (Network3D, Pajek, UCINET, BIPARTITE, Gephi), advanced statistical computing skills (SPSS, R), and working knowledge of programming skills (python, R, Matlab, Netlogo) and macroecological analysis (SAM, Diva).

**Fieldwork and data collection:** Project management, field preparation, development of sampling protocols, bird identification, biometric measures, nectar measurements.

**Laboratory work:** Insect and plant identification, preparation of insect collections and herbarium specimens, pollen quantification, pollen identification.

**Languages:** Spanish (Mother tongue), English (Fluent), Catalan (Fluent), Portuguese (Advanced reading level), Danish (Basic reading level).

## Research interests

Ecological networks. Species interactions. Pollination systems, species characteristics, their topological position and the role they play in ecological communities. Understanding ecological network formation and structure using null models. Modeling spatio-temporal dynamics of plant-animal assemblages. Biodiversity patterns. Species distributions and spatial networks. Network behavior and evolvability under global change scenarios.

## Peer-reviewed Scientific publications

**Martín González, AM**, Dalsgaard, B, Nogués-Bravo, D, Graham, CH, Schleuning, M, Abrahamczyk, S, Alarcón, R, Araujo, AC, Araújo, FP, de Azevedo Jr, SM, Baquero, AC, Cotton, PA, Ingversen, TT, Kohler, G, Lara, C, Las-Casas, FMG, Machado, AO, Machado, CG, Manglianesi, MA, Maruyama, PK, McGuire, J, Moura, AC, Oliveira, GM, Oliveira, PE, Ornelas, JF, Rodrigues, LC, Rosero-Lasprilla, L, Rui, AM, Sazima, M, Timmermann, A, Varasin, IG, Vizentin-Bugoni, J, Wang, Z, Watts, S, Rahbek, C, & Martinez, ND. Species' role, species' traits, and network dynamics: a macro-ecological approach. *In preparation*.

**Martín González, AM**, Dalsgaard, B, Nogués-Bravo, D, Graham, CH, Schleuning, M, Abrahamczyk, S, Alarcón, R, Araujo, AC, Araújo, FP, de Azevedo Jr, SM, Baquero, AC, Cotton, PA, Ingversen, TT, Kohler, G, Lara, C, Las-Casas, FMG, Machado, AO, Machado, CG, Manglianesi, MA, Maruyama, PK, McGuire, J, Moura, AC, Oliveira, GM, Oliveira, PE, Ornelas, JF, Rodrigues, LC, Rosero-Lasprilla, L, Rui, AM, Sazima, M, Timmermann, A, Varasin, IG, Vizentin-Bugoni, J, Wang, Z, Watts, S, Rahbek, C, & Martinez, ND. Environmental and evolutionary drivers of ecological networks. *Sent to Ecology Letters*.

Tarrant, S, Tahman, Md, McCollin, D, **Martín González, AM**, Dalsgaard, B & Ollerton, J. Short-term stability of plant-pollinator networks tested using experimental removal of core floral resources from a temperate grassland community. *Sent to Oikos*.

Filella, I, Primante, C, Llusia, J, **Martín González, AM**, Seco, R, Farré-Armengol, G, Rodrigo, A, Bosch, J & Peñuelas, J. 2013. Floral advertisement scent in a changing plant-pollinators market. *Scientific reports*, 3, 3434-3434.

Dalsgaard, B, Trojelsgaard, K, **Martín González, AM**, Nogués-Bravo, D, Ollerton, J, Petanidou, T, Sandel, B, Schleuning, M, Wang, Z, Rahbek, C, Sutherland, WJ, Svenning, JC & Olesen, JM. 2013. Historical climate-change influences modularity and nestedness of pollination networks. *Ecography*, 36, 1331-1340.

Eklöf, A, Jacob, U, Kopp, J, Bosch, J, Castro-Urgal, R, Chacoff, NP, Dalsgaard, B, Sassi, C, Galetti, M, Guimaraes, PR, Lomáscolo, SB, **Martín González, AM**,

Pizo, MA, Rader, R, Rodrigo, A, Tylianakis, JM, Vázquez, DP & Allesina, S. The dimensionality of ecological networks. *Ecology Letters*, 16: 577-583.

Dalsgaard, B, Carstensen, DW, Martinez Garcia, O, Kirkconnell, A, **Martín González, AM**, Sutherland, WJ. Floral traits of plants visited by the Bee Hummingbird (*Mellisuga helenae*). *Ornitologia Neotropical*, 23: 143-149.

**Martín González, AM**, Allesina, S, Rodrigo, A & Bosch, J. 2012. Drivers of compartmentalization in pollination networks. *Oikos*, 121: 2001-2013.

Dalsgaard, B, Timmermann, A, **Martín González, AM**, Olesen, JM, Ollerton, J, Andersen, LH. 2012. *Heliconia*-hummingbird interactions in the Lesser Antilles: a geographic mosaic? *Caribbean Journal of Science* 46: 328-331.

Dalsgaard, B, Magård, E, Fjeldså, J, **Martín González, AM**, Rahbek, C, Olesen, JM, Ollerton, J, Alarcón, R, Araujo, AC, Cotton, PA, Lara, C, Machado, CG, Sazima, I, Sazima, M, Timmermann, A, Watts, S, Sandel, B, Sutherland, WJ & Svenning, JC. 2011. Specialization in Plant-Hummingbird Networks is Associated with Quaternary climate-change velocity. *PLoS One*, 6 (10) e25891.

**Martín González, AM**, Dalsgaard, B, Olesen, JM. 2010. Centrality measures and the importance of generalist species in pollination networks. *Ecological Complexity* 7: 36-43.

**Martín González, AM**, Dalsgaard, B, Olesen, JM, Ollerton, J, Timmermann, A, Andersen, LH, Tossas, AG. 2009. Effects of climate on pollination networks in the West Indies. *Journal of Tropical Ecology* 25: 493-506.

Bosch, J., **Martín González, A.M.**, Rodrigo, A. & Navarro, D. 2009. Plant-pollinator networks, adding the pollinator's perspective. *Ecology Letters* 12: 409-419.

Dalsgaard, B, **Martín González, AM**, Olesen, JM, Ollerton, J, Timmermann, A, Andersen, LH, Tossas, AG. 2009. Plant-hummingbird interactions in the West Indies: floral specialization gradients associated with environment and hummingbird size. *Oecologia* 159: 757-766.

Dalsgaard, B, **Martín González, AM**, Olesen, JM, Timmermann, A, Andersen, LH, Ollerton, J. 2008. Pollination networks and functional specialization: a test using Lesser Antillean plant-hummingbird assemblages. *Oikos* 117: 789-793.

Timmermann, A, Dalsgaard, B, Olesen, JM, Andersen, LH, **Martín González, AM**. 2008. *Anolis Aeneus* (Grenadian Bush Anole), *Anolis richardii* (Grenadian Tree Anole). Nectarivory/pollination. *Herpetological Review* 39: 84-85.

#### Other Scientific publications

van Apeldoorn, D, Cox, M, **Martín González, AM** & Mills, R. 2008. Growing pollination networks. Complex Systems Summer Schools working papers. Santa Fe Institute, New Mexico, USA.

**Presentations  
at  
conferences**  
(presenter  
underlined)

**2013.** Dalsgaard, B., Trojelsgaard, K, **Martín González, AM**, Nogués-Bravo, D, Ollerton, J, Petanidou, T, Sandel, B, Schleuning, M, Wang, Z, Rahbek, C, Sutherland, WJ, Svenning, JC & Olesen, JM. *Historical climate-change influences modularity and nestedness of pollination networks*. Intl. Association for Ecology, London, UK.

**2012.** Dalsgaard, B., **Martín González, A.M.**, et al. *Geographic patterns in plant-hummingbird networks*. 49<sup>th</sup> Annual meeting of the Association for Tropical Biology and Conservation.

**2012.** Organization of the Symposium “*Network Analysis in Studies of Pollination Ecology*” for the 49<sup>th</sup> Annual meeting of the Association for Tropical Biology and Conservation. Together with Andréa Cardoso de Araujo (UFMS, Brazil) and Bo Dalsgaard (University of Copenhagen, Denmark).

**2011.** Dalsgaard, B., Magård, E, Fjeldså, J, **Martín González, AM**, Rahbek, C, Olesen, JM, Ollerton, J, Alarcón, R, Araujo, AC, Cotton, PA, Lara, C, Machado, CG, Sazima, I, Sazima, M, Timmermann, A, Watts, S, Sandel, B, Sutherland, WJ & Svenning, JC. *Specialization in Plant-hummingbird networks is associated with species richness, contemporary precipitation and Quaternary climate-change velocity*. Scandinavian Association for Pollination Ecologist, Billund, Denmark.

**2010.** Filella, I., Primante, C., Llusà, J., Bosch, J., Rodrigo, A., **Martín González, A.M.** & Peñuelas, J. *Matching phenology of community plant odour and pollinators in a Mediterranean shrubland*. “ Climate Change – Manipulation Experiments in Terrestrial Ecosystems ” workshop, Vindeln, Sweden.

**2009.** **Martín González, A.M.**, Bosch, J., Rodrigo, A., Primante, C., Barril, H. *Modularidad en una red de polinización mediterránea*. Spanish Association of Floral Ecology, Santiago de Compostela, Spain.

**2008.** **Martín González, A.M.**, Bosch, J., Rodrigo, A., Navarro, D. *Redes de polinización: ¿podemos incluir la perspectiva del polinizador?* Spanish Association of Floral Ecology, Valencia, Spain.

**2007.** **Martín González, A.M.**, Bosch, J., Rodrigo, A., Navarro, D. *Plant-pollinator networks: adding the pollinator's perspective*. Scandinavian Association for Pollination Ecologist (SCAPE), Aarhus, Denmark.

**Referee**

Journals: Acta Oecologica, American Journal of Botany, Ecology, Ecology Letters, Journal of Biogeography, Oikos, Pacific Ecology, Plant Species Biology.  
Grant Committees: National Fellowship Committee for Graduate Women in Science.

**Scholarships  
and research  
grants  
awarded**

Spanish Ministry of Education postdoctoral fellowship (2011-2013), Spanish Ministry of Science Short stays at International Centres (2007, 2008 & 2009), ISOBIS grant for visiting students (2007), Spanish Ministry of Science PhD grant (2006-2010), Sven Fiedler & Wife Foundation (2006), Faculty of Science, Aarhus University (2005 & 2006), Erasmus program (2003-2004).