

CURRICULUM VITAE**Gómez Brandón, María****Academic record in numbers (2006-2020)**

h-index/i10-index	29/45
Papers in peer-reviewed journals	57
Book chapters	7
Publications in Q1	38
Supervised BSc/MSc/PhD students	3/7/2

Date of birth: 22.11.1980

Nationality: Spanish

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Education

- April 2010* PhD degree, Department of Ecology and Animal Biology, Universidad de Vigo, Spain
Topic: „*Effects of earthworms on the structure and function of microbial communities during organic matter decomposition*“, PhD supervisors: Prof. Jorge Domínguez and Prof. Marta Lores, Graduation with distinction (Cum laude)
- Sept 2005* MSc in Biology, Department of Ecology and Animal Biology, Universidad de Vigo

Current position

- Jan 2018 – ongoing* Ramón y Cajal Fellow, Grupo de Ecología Animal (GEA), Universidad de Vigo, Galicia, Spain.

Previous positions

- Jan 2011 – Dec 2017* Postdoctoral Researcher, Institute of Microbiology, Innsbruck, Austria; Group: Prof. Heribert Insam
- April 2006 – March 2010* Predoctoral student granted by Spanish Ministry of Science (FPU fellowship); Group: Prof. Jorge Domínguez, Universidad de Vigo, Spain
- Oct 2003 – Sept 2005* MSc student granted by Xunta de Galicia; Group: Prof. Jorge Domínguez, Universidad de Vigo, Spain

Fellowships and outstanding awards

- 2015* Travel fellowship by Italian Centre from University of Innsbruck to carry out a postdoctoral stay at the Department of Agrifood and Environmental Science, University of Florence
- 2011 – 2013* Postdoctoral fellowship from Spanish Foundation Alfonso Martín Escudero, University of Innsbruck, Austria

- 2011 Award for the best research article granted by Plataforma Tecnológica de Agricultura Sostenible, Madrid, Spain
- 2010 Extraordinary PhD award, Universidad de Vigo, Spain
- 2007 Travel fellowship by Spanish Ministry of Science, 4-month predoctoral stay, University of Lund, Sweden, Prof. Erland Bååth
- 2006 – 2010 Formación de Profesorado Universitario (FPU) grant, Universidad de Vigo, Spain
- 2003 – 2005 MSc fellowship from Xunta de Galicia, Universidad de Vigo, Spain

Research projects

- Feb - Dec 2021 Fields4ever initiative – a global soil health initiative
European Union´s Horizon 2020 research and innovation programme
Grant agreement N° 947084
Principal investigator
Project: „*Soil-plant-microbe interactions and their implications for corn silage systems*“
- 2018 – 2021 Xunta de Galicia (ED431F 2018/07)
Principal Investigator
Project: „*Biotransformación de bagazo de uva mediante vermicompostaje: Evaluación de las propiedades biofertilizantes del vermicomposts en el viñedo*“
- 2018 – 2023 Ministerio de Economía y Competitividad (RYC-2016-21231)
Principal Investigator
Project: „*From wastes to resources: microbial community changes in aerobic and anaerobic waste treatments and posterior application to soil*“
- 2018 – 2020 Ministerio de Economía y Competitividad (AGL2017-86813-R)
Scientific partner, PI: Prof. Jorge Domínguez
Project: „*Vermicompostaje como ingeniería ecológica para la mejora de la sostenibilidad de los agroecosistemas*“
- 2016 – 2020 European Programme Horizon 2020-Research and Innovation action,
Grant agreement: N° 654650
Scientific partner, PI: Prof. Heribert Insam
Project: „*Renewable residential heating with fast pyrolysis bio-oil*“
- 2016 – 2017 Tiroler Wissenschaftsfonds
In cooperation with the Institute of Ecology at the University of Innsbruck
Project: „*Carbonyl sulfide exchange between terrestrial ecosystems and the atmosphere: the role of soils*“
- 2014 – 2017 Ministerio de Economía y Competitividad (CTM2013-42540-R)
Scientific partner, PI: Prof. Jorge Domínguez
Project: „*Interacciones de lombrices de tierra y microorganismos durante el vermicompostaje: estructura, función y dinámica de las comunidades microbianas*“
- 2013 BiEne C-Anammox Project: „*Monitoring of the first Anammox-biomass-enrichment in the mainsteam of a WWTP (Strass, A) for improved Energy-and cost balance*“. Comet-Centre alpS-GmbH in Cooperation with the University of Innsbruck (Institute of Microbiology) and ARAconsult GmbH.

- 2012 – 2016 Austrian Science Fund (I989-B16)
Scientific partner, PI: Prof. Heribert Insam
Project: „*Effects of climate on deadwood decomposition dynamics in forested alpine areas*“
- 2010 – 2012 Ministerio de Economía y Competitividad
Scientific partner, PI: Prof. Jorge Domínguez
Project: „*Stimulation of organic matter decomposition in the presence of earthworms during the process of vermicomposting*“
- 2007 – 2010 Xunta de Galicia
Scientific partner, PI: Prof. Jorge Domínguez
Project: „*Optimization of the functioning of an industrial vermireactor for the treatment of organic wastes*“

Seminars and courses

- 05/2020 **Higher Education Lecturing Accreditation (HELA)**, University of Vigo
- 03/2019 **High-throughput sequencing using Illumina PacBio, and ONT: key concepts and applications (11 h-course)**, AllGenetics & Biology SL, A Coruña, Spain
- 11/2015 **Budget controlling within the Horizon 2020 programme (4 h-seminar)**, Faculty of Medicine, University of Innsbruck, Austria
- 05/2012 **Lab Microbial Systems Ecology (6 day-course)**, Technische Universität München (D)
International FISH Workshop – Fluoreszenz *in situ* Hybridisierung (Lead: Dr. Natuschka Lee)

Teaching activities

- 2018 – ongoing **Biodiversidad** (Theoretical and Lab Course)
Department of Ecology and Animal Biology, Universidad de Vigo, Galicia, Spain
- 2018 – ongoing **Técnicas Básicas de Campo e Teledetección** (Lab Course)
Department of Ecology and Animal Biology, Universidad de Vigo, Galicia, Spain
- 2018 **Peces y Mariscos** (Lab Course)
Facultad de Ciencias del Mar, Universidad de Vigo, Galicia, Spain
- 2017 **Structure and function of microbiomes** (Lab Course)
Institute of Microbiology, University of Innsbruck, Austria
- 2011 – 2016 **Biodegradation** (Lab Course)
Institute of Microbiology, University of Innsbruck, Austria
- 2011 **Invited Seminar**
Title: „*Microbiology of Aerobic and Anaerobic processes for biowaste recycling*“
Postgrade Specialization Programme in Mediterranean Organic Agriculture
International Centre for Advanced Mediterranean Agronomic Studies
Bari, Italy

Supervision of Bachelor/Master/PhD Theses***PhD theses*****Tommaso Bardelli****16/03/2018**

Co-supervisor (Main supervisor: Prof. Heribert Insam)

Title: Carbon pools and microbiota along an alpine soil climosequence

Institute of Microbiology, University of Innsbruck, Austria

Fall within the European Doctoral Programme

“Award of Excellence 2018” by Bundesministerium für Bildung, Wissenschaft und Forschung

Marina Fernández Delgado Juárez **29/01/2016**

Co-supervisor (Main supervisor: Prof. Heribert Insam)

Title: Challenging the global nutrient cycling by using wood ash and organic waste resources: composting, grassland management and forestry

Institute of Microbiology, University of Innsbruck, Austria

Master and Bachelor theses**Elena Ramos Gallego****18/02/2021**

Main supervisor

Title: „El efecto del fuego en la actividad y biodiversidad microbiana del suelo“

Universidad de Vigo, Galicia, Spain

Alicia Trigo Viétez**18/02/2021**

Main supervisor

Title: „Caracterización físico-química y microbiológica de suelos urbanos de la ciudad de Santiago de Compostela“

Universidad de Vigo, Galicia, Spain

Bernhard Eder**02/02/2018**

Co-supervisor (Main supervisor: Prof. Heribert Insam)

Title: “*Soil microbiota links to carbonyl sulfide fluxes*”

Institute of Microbiology, University of Innsbruck, Austria

Deborah Schönneger**17/10/2017**

Co-supervisor (Main supervisor: Prof. Heribert Insam)

Title: “*Phosphorus fertilizing potential of fly ashes and effects on soil microbiota and crop*”

Institute of Microbiology, University of Innsbruck, Austria

Evelyn Burkia Stocker**19/06/2017**

Co-supervisor (Main supervisor: Prof. Heribert Insam)

Title: „*Digging deeper into the structure and function of microbial communities involved in deadwood decomposition: a mesocosm field-study*“

Institute of Microbiology, University of Innsbruck, Austria

Examination Board Member

Jury member **Innsbruck Nature festival:** special jury member for best film on the topic of of Soil 2019, link: <https://naturefestival.eu/en/film-2/#jury-en>

PhD committee member

Náyade Álvarez Quintero *„Efectos ambientales y parentales sobre el comportamiento y la estrategia vital del pez espinoso“*
Date: 07-07.2021, Universidad de Vigo, Galicia, Spain

Kirsty Matthews *„The influence of aboveground diversity on plant-microbe interactions: insights from the field to agriculture“*
Date: 01-03.2021, University of Essex, England

Parveen Rupani *„Sustainable transformation from palm oil mill wastes into organic fertilizer through vermicomposting“*
Date: January 2016, University of Monash, Malaysia

María Vela Cano *„Estudio de los procesos microbianos implicados en la utilización de lodos urbanos de depuradora para la producción de biofertilizantes líquidos“*
Date: 21.11.2014, Instituto del Agua, Universidad de Granada, Spain

Jessica Olcina *„Metagenómica aplicada al estudio de los cambios en la estructura y diversidad de las comunidades bacterianas intestinales de las lombrices de tierra“*
Date: 24.07.2014, Universidad de Vigo, Galicia, Spain

Editorial and reviewer assignments

since May 2020 Associate Editor of the journal Applied Soil Ecology
2016-2020 Editorial Board member of the scientific journal Applied Soil Ecology
2021 Project referee for Agencia Estatal de Investigación, Spain
2020 Project referee for National Science Centre, Poland
2020 Project referee for Czech Science Foundation, Czech Republic
2019 Project referee for Ministerio de Economía y Competitividad, Spain
2015 Project referee for Foundation Coopération Scientifique Rovaltain, France
2013 Project referee for Czech Science Foundation, Czech Republic
2013 Guest Editor, Special Issue: *„Biological Waste Treatment“*
Waste Management and Research 31(8), 773-774
since 2011 Reviewer of research articles for international journals including
Applied Soil Ecology, Soil Biology and Biochemistry, iForests, Plos One, Catena, European Journal of Soil Biology, Science of the Total Environment, Pedosphere Revista Argentina de Microbiología, Waste Management

Contributions to (inter)national conferences in the last five years

- 2020 **GEO BON Open Science Conference. Virtual conference**
- 2019 **4th Thünen Symposium on Soil Metagenomics**
Poster (co-author): „*Slope exposure shapes fungal deadwood decaying communities of Norway spruce and their interactions with nitrogen-fixing bacteria*“
11-13/12/2019, Thünen, Germany
- 2019 **7th International conference on sustainable solid waste management (Heraklion)**
Poster (co-author): „*Vermicomposting of red winemaking grape marc increases microbial diversity and function yielding a high quality plant biostimulant*“
Oral presentation (co-author): „*Ashes from fast pyrolysis bio-oil production of different waste streams may be suited as soil amendment*“
26-29/06/2019, Crete, Greece
- 2019 **Congreso Nacional de Biotecnología (BIOTEC)**
Poster (co-author): „*Vermicomposting increases bacterial diversity and changes composition and function yielding a high quality plant biostimulant*“
10-13/06/2019, Vigo, Spain
- 2019 **15th Symposium on Bacterial Genetics and Ecology (BAGECO)**
Poster (main author): „*Metagenomic insights into bacterial succession during vermicomposting of the white grape marc *Vitis vinifera* v. *Albariño**“
26-30/05/2019, Lisbon, Portugal
- 2017 **European Geosciences Union General Assembly**
Oral presentation (co-author): „*Biomass ashes from pyrolytic wood liquefaction as novel soil amendments*“
23-28/04/2017, Vienna, Austria
- 2017 **European Geosciences Union General Assembly**
Poster (co-author): „*Combining in situ and laboratory measurements of soil-atmosphere carbonyl sulfide fluxes from our different biomes accross Europe*“
23-28/04/2017, Vienna, Austria
- 2016 **Enzymes in the environment: activity, ecology and applications**
Oral presentation (co-author): „*Interdisciplinary characterization of an alpine soil Climosequence by simple yet powerful techniques*“
24-28/07/2016, Bangor, UK

Language skills

Spanish	mother tongue
English	fluent active
German	basic passive

Career breaks

24.03. – 07.09.2018 Full time maternity leave

A handwritten signature in black ink that reads "María Gómez". The signature is written in a cursive style with a large initial 'M' and 'G'.

Vigo, 09.07.2021