

UNIVERSITÀ DEGLI STUDI DI MILANO

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[Margherita Gioria]

CURRICULUM VITAE

COGNOME	GIORIA
NOME	MARGHERITA
DATA DI NASCITA	[31, 07, 1974]

Institute of Botany
 Department of Invasion Ecology
 Czech Academy of Sciences
 Zámek 1, CZ-252 43 Průhonice
 Czech Republic
ORCID iD: 0000-0002-0574-4688
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Email: margheritagioria1@gmail.com

ACADEMIC APPOINTMENTS

Researcher, Project Leader Institute of Botany, Czech Academy of Sciences, Průhonice, Czech Republic	2014 - present
Research Fellow, Adjunct Lecturer School of Biology and Environmental Science, University College Dublin	2017 - 2018
Professor (W1), Plant Ecology, GeoEcology and Modelling Institute of Plant Ecology, Justus-Liebig University Giessen, Germany	08/2012 - 12/2013
Research Fellow, Principal Investigator UCD School of Agriculture and Food Science, University College Dublin	2008 - 2011
Post-doctoral Research Associate School of Life Sciences, Arizona State University, 87287 Tempe, AZ	10.07 - 01.08

VISITING ACADEMIC POSITIONS

Visiting Fellow Department of Biology, University of Pisa, Italy	Nov. 2019
Visiting Lecturer (Honorary) School of Biology and Environmental Science, University College Dublin	2014 - 2018
Visiting Researcher Department of Applied Ecology, University of Siena, Siena, Italy	10/11 - 06/12
Postdoctoral Researcher Ecology, Department of Biology, University of Konstanz, Germany	03/11 - 05/11
Visiting Researcher Botany Department, University of Hawaii at Manoa, 96822 Honolulu, HI	04/10 - 07/10

ITALIAN NATIONAL SCIENTIFIC HABILITATION

Habilitation as Associate Professor of Botany (Italy) (06/04/2017)

AGÈNCIA PER A LA QUALITAT DEL SISTEMA UNIVERSITARI DE CATALUNYA

Accreditation as 'Lector' in Life Sciences (11/03/2020)

EDUCATION

Ph.D. Botany (2007), University College Dublin, Ireland

Postgraduate Certificate in Research Methods (2005; 96/100), University College Dublin, Ireland

M.Sc. Environmental Resource Management (2002; 1st Honours), University College Dublin, Ireland

B.A. Economics and Commerce (1999; 110/110 cum Laudem), Università degli Studi di Torino, Turin, Italy

EDITORIAL WORK

Associate Editor: Biological Invasions (2017 - present)

Subject Editor: Ecosphere (2010 - 2019)

Guest Editor. Frontiers in Ecology and Evolution. Research Topic: 'Biological Invaders: Always the Bad Guys?'

OUTREACH ACTIVITIES

Board of Directors of the Society for Conservation Biology - Europe Section 2010 - 2013

Science Ambassador for Ireland 2007 - 2011

PROFESSIONAL EXPERIENCE

Treasury Manager 12.02 - 12.03
EMRO Finance Ltd, International Financial Services Centre, Dublin 1, Ireland

Financial Controller 04.01 - 08.01
BPM Ireland Plc, International Financial Services Centre, Dublin 1, Ireland

Financial Analyst 01.00 - 04.01
Banca Popolare di Milano S.p.A., Milan, Italy

FUNDED PROJECTS AND AWARDS

GACR - Czech Science Foundation - Project Leader. Project: Live long, spread fast: the role of seed persistence in plant invasions. (5 million CKR, ca. € 250,000) (2019-2021)

GACR - Czech Science Foundation - Project Leader. Project: Timing is everything: the role of soil seed banks in plant invasions (5 million CKR, ca. €200,000) (2015-2017)

LOEWE (Centre of Research Excellence of Hesse) FACE2FACE, Young Scientist and co-coordinator of two work packages (overall grant: €4.5 million) (2014-2016)

Environmental Protection Agency Ireland - Principal Investigator. Project: The effects of agriculture on freshwater biodiversity (€230,000) (Science, Technology, Research & Innovation for the Environment Fellowship) (2008-2011)

Researcher Travel and Support Grant - Environmental Protection Agency Ireland (2011)

Research Award: UCD Seed Funding Scheme Programme 2009: Dissemination and Output, University College Dublin, Ireland (€1,000) (2009)

PUBLICATIONS

- Gioria M**, Pyšek P, Baskin C, Carta A (2020) Phylogenetic relatedness mediates persistence and density of soil seed banks. *Journal of Ecology* 108, 2121-2131
- Gioria M**, Le Roux JJ, Hirsch H, Moravcová L, Pyšek P (2019) Characteristics of the soil seed bank of invasive and non-invasive plants in their native and alien distribution range. *Biological Invasions* 21, 2313-2332
- Gioria M**, O'Flynn C, Osborne B (2019) Managing invasions by terrestrial alien plants in Ireland: challenges and opportunities. *Biology and Environment, Proceedings of the Royal Irish Academy* 119B, 37-61
- Gioria M**, O'Flynn C, Osborne B (2018) A review of the impacts of major terrestrial invasive alien plants in Ireland. *Biology and Environment, Proceedings of the Royal Irish Academy* 118B, 157-179
- Gioria M**, Pyšek P, Osborne B (2018) Timing is everything: does early and late germination favor invasions by herbaceous alien plants? *Journal of Plant Ecology* 11: 4-16
- Osborne B, **Gioria M** (2018) Plant Invasions. *Journal of Plant Ecology* 11: 1-3 (editorial paper)
- Gioria M**, Pyšek P (2017) Early bird catches the worm: germination as a critical step in plant invasion. *Biological Invasions*, Elton Review Series n. 1, 19: 1055-1080
- Gioria M**, Pyšek P (2016) The legacy of plant invasions: changes in the soil seed bank of invaded plant communities. *BioScience* 66: 40-53.
- Bacaro G, Maccherini S, Chiarucci A, Jentsch A, Rocchini D, Torri D, **Gioria M**, Tordoni E, Martellos S, Otto R, Escudero CG, Fernandez-Lugo S, Fernandez-Palacios JM, Arévalo JR (2015) Distributional patterns of endemic, native and alien species along a roadside elevational gradient in Tenerife, Canary Islands. *Community Ecology* 16: 223-234
- Bacaro G, Rocchini D, Diekmann M, Gasparini P, **Gioria M**, Maccherini S, Marcantonio M, Torri D, Altobelli A, Chiarucci A (2015) Shape matters in sampling plant diversity: evidence from the field. *Ecological Complexity* 24: 37-45
- Gioria M**, Osborne B (2014) Resource competition in plant invasions: emerging patterns and research needs. *Frontiers in Plant Science* 5: 501, doi: 10.3389/fpls.2014.00501
- Saunders M, Tobin B, Sweeney C, **Gioria M**, Benanti G, Cacciotti E, Osborne B (2014) Impacts of exceptional and extreme inter-annual climatic events on the net ecosystem carbon dioxide exchange of a Sitka spruce forest. *Agricultural and Forest Meteorology* 184: 147-157
- Gioria M**, Jarošík V, Pyšek P (2014) Impact of invasions by alien plants on soil seed bank communities: Emerging patterns. *Perspectives in Plant Ecology, Evolution and Systematics* 16: 132-142
- Bacaro G, **Gioria M**, Ricotta C (2013) Beta diversity reconsidered. *Ecological Research* 28: 537-540
- Gioria M**, Osborne B (2013) Biological Flora of the British Isles Series: *Gunnera tinctoria* (Molina) Mirbel. *Journal of Ecology* 101: 243-264
- Gioria M**, Pyšek P, Moravcová L (2012) Soil seed banks in plant invasions: promoting species invasiveness and long-term impact on plant community dynamics. *Preslia* 84: 327-350
- Saunders M, Tobin B, Black K, **Gioria M**, Nieuwenhuis M, Osborne B (2012) Thinning effects on the net ecosystem carbon exchange of a Sitka spruce forest are temperature-dependent. *Agricultural and Forest Meteorology* 157: 1-10
- Bacaro G, **Gioria M**, Ricotta C (2012) Testing for differences in beta diversity from plot-to-plot dissimilarities. *Ecological Research* 27: 285-292

- Gioria M**, Dieterich B, Osborne B (2011) Battle of the giants: primary and secondary invasions by large herbaceous species. *Biology and Environment, Proceedings of the Royal Irish Academy* 111: 177-193
- Maccherini S, Marignani M, **Gioria M**, Renzi M, Rocchini D, Santi E, Torri D, Tundo J, Honnay O (2011) Determinants of plant community composition of remnant biancane badlands: a hierarchical approach to quantify species-environment relationships. *Applied Vegetation Science* 14: 378-387
- Gioria M**, Bacaro G, Feehan J (2011) Evaluating and interpreting cross-taxon congruence: potential pitfalls and solutions. *Acta Oecologica* 37: 187-194
- Gioria M**, Bacaro G, Feehan J (2010) Identifying the drivers of pond biodiversity: the agony of model selection. *Community Ecology* 11: 179-186
- Gioria M**, Osborne B (2010) Similarities in the impact of three large invasive plant species on soil seed bank communities. *Biological Invasions* 12: 1671-1683
- Gioria M**, Schaffers A, Bacaro G, Feehan J (2010) The conservation value of farmland ponds: Predicting water beetle assemblages using vascular plants as a surrogate group. *Biological Conservation* 143: 1125-1133
- Gioria M**, Osborne B (2009) The impact of *Gunnera tinctoria* Molina (Mirbel) on soil seed bank communities. *Journal of Plant Ecology* 2: 153-167
- Gioria M**, Osborne B (2009) Assessing the impact of plant invasions on soil seed bank communities: use of univariate and multivariate statistical approaches. *Journal of Vegetation Science* 20: 547-556
- Becerra Jurado G, Callanan M, **Gioria M**, Baars J-R, Harrington R, Kelly-Quinn M (2009) Comparison of macroinvertebrate community structure and driving environmental factors in natural and wastewater treatment ponds. *Hydrobiologia* 634: 153-165
- Gioria M**, Osborne B (2008) Soil seed banks associated with two invasive species, *Gunnera tinctoria* and *Heracleum mantegazzianum*. In: Tokarska-Guzik B, Brock J, Brundu G, Child L, Daehler C, Pyšek P (eds.). *Plant Invasions: human perception, ecological impacts and management*, pp. 217-233. Backhuys Publishers, Leiden, The Netherlands
- Gioria M**, Osborne B (2006) The soil seed bank associated with invasive populations of *Heracleum mantegazzianum* Sommier & Levier. *Proceedings of the 15th Irish Environmental Researchers' Colloquium*, pp. 13-17. Environmental Sciences Association of Ireland

BOOK CHAPTER

- Gioria M** (2014) Chapter 7. Habitats. In: *Ecology, Systematics and the Natural History of Predaceous Diving Beetles (Coleoptera: Dytiscidae)* D Yee (ed.), Springer Science, pp. 306-362

PUBLISHED REPORTS / TECHNICAL NOTE

- Gioria M**, Osborne B (2017) Information on measures and related costs in relation to species included on the Union list: *Gunnera tinctoria*. An IUCN technical note produced under EC contract No 07.0202/2016/739524/SER/ENV.D.2.
- Gioria M** (2011) Freshwater biodiversity in the Irish agricultural landscape: the significance of ponds. Environmental Protection Agency, STRIVE Report Series 80, pp. 68 (ISBN: 978-1-84095-412-8), Wexford, Ireland
- Feehan J, **Gioria M**, Kaye B, Sheridan H, Whelan J (2008) The control of bracken (*Pteridium aquilinum*) in the Glen of Imaal, Co. Wicklow. A report for the Department of Defence. Entograph Ltd., Shankill, Ireland

SUBMISSIONS

Gioria M, Carta A, Baskin CC, Dawson W, Essl F, Kreft H, Pergl J, van Kleunen M, Weigelt P, Winter M, Pyšek P. Persistent soil seed banks promote naturalization and invasiveness in flowering plants. (Submitted to *Science Advances*, 9th December 2020, abg0145)

Carta A, Vandeloost F, Fernández-Pascual E, Rosbakh S, Saatkamp A, Gioria M, Rivière S, Müller JV, Mattana E. The seed germination spectrum of European flowering plants. (Submitted to *Nature Plants*)

MANUSCRIPTS IN PREPARATION

Gioria M, Osborne BA, Pyšek P. Soil seed banks under a warming climate. In: Plant regeneration from seeds: a global warming perspective (eds Baskin CC & Baskin J), Elsevier. (invited book chapter)

Gioria M, Carta A, Baskin CC, Dawson W, Essl F, Kreft H, Pergl J, van Kleunen M, Weigelt P, Winter M, Pyšek P. Seed bank persistence in the native and alien range of naturalized flowering plants. (to be submitted to *Ecology Letters*).

TEACHING ACTIVITIES

Coordinator and Lecturer

Stress Ecology, M.Sc. Biology (M-PÖ-STÖ, 30h), Justus-Liebig University, Giessen, Germany

Plant community Ecology, M.Sc. Biology (M-PÖ-PCE, 15h), Justus-Liebig University, Giessen, Germany

Topics in Plant Ecology, M.Sc. Biology (M-PÖ-SEM, 10h), Justus-Liebig University, Giessen, Germany

Lecturer

Cell and Plant Biology (BIOL10030, 6h lectures, 18h laboratory coordination), 1st year Biology module, University College Dublin, Ireland

Ecosystem Modelling, M.Sc. Biology (M-PÖ-ÖUM, 4h), Justus-Liebig University Giessen, Germany

Global Change and Adaptation Strategies, M.Sc. Biology (M-PÖ-APS, 4h), Justus-Liebig University, Giessen, Germany

Plant-Soil-Atmosphere, M.Sc. Biology (M-PÖ-PSA, 4h), Justus-Liebig University, Giessen, Germany

Invited lectures

Research Methods. M.Sc. Environmental Resource Management (ERM) (short course, 8h), University College Dublin, Ireland (2009, 2010)

The biodiversity-ecosystem functioning paradigm. Department of Environmental Science, University of Siena, Italy (2h, 2011)

Measuring Biodiversity. M.Sc. Rural Environmental Conservation and Management programme (RECM), University College Dublin, Ireland (2h, 2010)

Analysis of Multivariate Data. Postgraduate Seminar Course. Ecology, Department of Biology, University of Konstanz, Germany (2h, 2011)

Simple and Canonical Analysis. Postgraduate Seminar Course. Ecology, Department of Biology, University of Konstanz, Germany (2h, 2011)

Freshwater biodiversity in the agricultural landscape. Graduate course. Limnological Institute, Department of Biology, University of Konstanz, Germany (2h, 2011)

Biological Monitoring. M.Sc. Rural Environmental Conservation and Management (RECM), University College Dublin, Ireland (2h, 2010, 2011)

Diversity in the Rural Landscape. Undergraduate course (2nd year Agriculture and Environmental Science degree, 4h), University College Dublin, Ireland (2008)

Member of the Examination Committee: M.Sc. Global Change, Ecosystem Science and Policy

Joint MSc programme:

University College Dublin, Ireland - Justus-Liebig University Giessen, Germany 2012 - 2013

Internal MSc Assessor: M.Sc. Environmental Resource Management

School of Agriculture, Food Science and Veterinary Medicine 2008 - 2011

Senior Postgraduate Demonstrator (2004-2006)

UCD School of Biology and Environmental Science, University College Dublin

- Biology, 4 semesters (36 h each), 40 undergraduate students (1st year Science)
- Environment, Plants and Vegetation, 1 semester (36 h + 3 field trips), 10 students (2nd year Science)
- Plant Growth and Nutrients Assimilation, 1 semester (36 h), 10 students (3rd year Botany)
- Mycology, 1 semester (36 h), 20 students (3rd year Botany)

External Examiner, Ph.D. dissertation, University of Stellenbosch, South Africa (2015)

Supervising activities (dissertations/theses)

Philipp Körner (2012-2013). MSc Project: Use of desert bunchgrass *Panicum turgidum* for the production of biofuel under salt and draught stress.

Florian Süssel (2012-2013). MSc Project: Sustainable utilization of untreated sewage of fish farms for the cost-effective production of biomass plants.

Kaia Bauer (2012-2013). MSc Project: The eco-physiological effects of the utilisation of unconventional water resources on fallow land for the aim of economically profitable and environmentally sustainable energy production.

Loti Ching'oma (2009-2010). MSc Project: The social dimension of climate change: a case study from Malawi.

Mark Burke (2009-2010). MSc Project: The role of urban golf courses in maintaining freshwater biodiversity and increasing habitat connectivity.

Selena Reynolds (2008-2009). MSc Project: Assessing the conservation value of freshwater habitats in Dundalk Bay.

Nigel Mills (2009-2010). BSc Project: The biodiversity value of an esker pond system after gravel extraction.

Gabriel Gaffney (2009-2010). BSc Project: The potential conservation value of two quarry ponds in Clorhane, Co. Offaly.

David Walsh (2008-2009). BSc Project: The biodiversity value of freshwater springs in the Burren, Co. Clare.

Teaching accreditation: 24 CFU, Università degli Studi di Torino, Turin, Italy (2018/19)

Subjects: Educational Technology; Educational Research; Teaching models and strategies; Developmental psychology; Psychology of cognitive processes; Social psychology; Dynamic psychology; School and Teacher Education

PROJECT/MANUSCRIPT REVIEWER

- Swiss National Science Foundation (2013): Project evaluation
- BiodivERsA Network (2013): Project evaluation
- Participation to British Ecological Society policy consultation (2013): Call for Evidence: Environment and Climate Change
- USGS (United States Geological Survey) (2010): Manuscript review
- CSIRO (The Commonwealth Scientific and Industrial Research Organisation) (2011): Manuscript review

REVIEWER FOR INTERNATIONAL JOURNALS

Annals of Applied Biology; Applied Vegetation Science; Australian Journal of Botany; Biodiversity and Conservation, Biological Invasions; Community Ecology; Ecography; Ecological Modelling; Ecological Indicators; Ecosphere; Evolutionary Ecology; Folia Geobotanica; Global Change Biology; Insect Conservation and Diversity; Journal of Biogeography; Journal of Plant Ecology; Journal of Soil and Water Conservation; Journal of Vegetation Science; Oikos; Plant Ecology; Preslia; PLoS ONE; Weed Research

CONFERENCE ACTIVITIES

Vice Chair of Organising Committee, 10th International Conference on Biological Invasions: New Directions in Invasion Biology (NEOBIOTA), Dun Laoghaire, Ireland, 4-7 September 2018

Member of Scientific Committee, Member of the Scientific Committee, 3rd European Congress of Conservation Biology (ECCB) 2013, 28/08-1/09/2012, Glasgow, UK

Conference abstracts reviewer, reviewer for 100 abstracts submitted for presentation at the 25th International Congress for Conservation Biology (ICCB), Auckland, New Zealand, 5-9 December 2011

Session organizer

Session: Evaluating the drivers of biodiversity patterns: plant-animal interactions and relationships with environmental variables. Ecological Society of Germany, Austria and Switzerland (GfÖ) Annual Meeting 2011, Oldenburg, Germany

Session chair

- Spatial Ecology and Conservation. 3rd European Congress of Conservation Biology, 28 August-1 September 2012, Glasgow, UK
- Planning, Management and Conservation Strategies. 3rd European Congress of Conservation Biology, 28 August-1 September 2012, Glasgow, UK
- Evaluating the drivers of biodiversity patterns: plant-animal interactions and relationships with environmental variables. 2011 Ecological Society of Germany, Austria and Switzerland (GfÖ) Annual Meeting 2011, Oldenburg, Germany
- Biodiversity and Society. 2010 Ecological Society of Germany, Austria and Switzerland (GfÖ) Annual Meeting, Giessen, Germany
- Invasions: Community effects. 2010 Ecological Society of America Annual Meeting, Pittsburgh, PA
- Invasions: Species interactions II. 2009 Ecological Society of America Annual Meeting, Albuquerque, NM
- Rivers and Floodplains. 2009 Ecological Society of America Annual Meeting, Albuquerque, NM
- Agro-ecology II. 2009 British Ecological Society Annual Meeting, Hertfordshire, UK

First-authored peer-reviewed abstracts - International meetings

Gioria M, Moravcová L, Dawson W, Essl F, Kreft H, Pergl J, Weigelt P, Winter M, van Kleunen M, Pyšek P (2019) Plant species forming a persistent soil seed bank have a higher probability of becoming naturalized. Abstracts of the 15th International Conference on Ecology and Management of Alien Plant Invasions (EMAPi 2019), 9-13 September 2019, Prague, Czech Republic (oral contribution)

- Gioria M, Moravcová L, Dawson W, Essl F, Kreft H, Pergl J, Weigelt P, Winter M, van Kleunen M, Pyšek P (2019) Importance of the characteristics of soil seed banks in the invasion process. Abstracts of the VI Seed Ecology Meeting, 28 July-2 August 2019, Regensburg, Germany (oral contribution)
- Gioria M, Fornara D, Mantoani M, McIlroy J, Osborne B (2018) Contrasting long-term impacts of two large herbaceous invasive alien plants. Abstracts of the 10th International Conference on Biological Invasions - NEOBIOta 2018, 3-7 September 2018, Dun Laoghaire, Ireland (oral contribution)
- Gioria M, O'Flynn C, Osborne B (2018) Distribution of terrestrial invasive alien plant species of Union concern in Ireland. Abstracts of the 10th International Conference on Biological Invasions - NEOBIOta 2018, 3-7 September 2018, Dun Laoghaire, Ireland
- Gioria M, Le Roux JJ, Moravcová L, Pyšek P (2017) Seed bank density and persistence as predictors of species invasiveness. Abstracts of the 14th International Conference on Ecology and Management of Alien Plant Invasions (EMAPI 2017), 4-8 September 2017, Lisbon, Portugal (oral contribution)
- Gioria M, Pyšek P (2016) Germination strategies and plant invasions: current knowledge, gaps and challenges. Abstracts of the 9th International Conference on Biological Invasions - NEOBIOta 2016, 12-14 September 2016, Vianden, Luxembourg (oral contribution)
- Gioria M, Le Roux JJ, Janovský Z, Moravcová L, Pyšek P (2016) Assessing soil seed bank traits as potential predictors of the invasiveness of alien plants and their importance in the non-native range. Abstracts of the 7th International Weed Science Congress, 19-25 June 2016, Prague, Czech Republic
- Gioria M, Pyšek P (2015) The legacy of plant invasions: changes in the soil seed bank of invaded plant communities. Abstracts of the 13th International Conference on the Ecology and Management of Alien Plant Invasions (EMAPI 2015), 20-24 September, Hawai'i Island, HI, USA (oral contribution)
- Gioria M, Pyšek P (2014) Comparative assessment of the soil seed bank of invasive and non-invasive congeners in their native and alien range. Abstracts of the 8th European Conference on Biological Invasions: NEOBIOta 2014, 3-8 November, Antalya, Turkey (oral contribution)
- Gioria M, Osborne B (2014) The role of competition in plant invasions. Abstracts of the Plant Biology Europe FESPB/EPSO 2014 Congress, 22-26 June 2014, Dublin, Ireland (oral contribution)
- Gioria M, Jarošík V, Pyšek P (2013) Impact of plant invasions on soil seed banks. Abstracts of the 12th International Conference on the Ecology and Management of Alien Plant Invasions (EMAPI 2013), 22-26 September, Pirenópolis, Brazil (oral contribution)
- Gioria M, Jarošík V, Pyšek P (2012) The role of soil seed banks in plant species invasions. Abstracts of the 7th European Conference on Biological Invasions: NEOBIOta 2012, 12-14 September, Pontevedra, Spain (oral contribution)
- Gioria M (2011) Identifying the drivers of biodiversity: the role of plant-animal interactions. Abstracts of the 41st Ecological Society of Germany, Austria and Switzerland (GfÖ) Annual Meeting 2011, 5-9 September, Oldenburg, Germany (oral contribution)
- Gioria M, Yu F-J, Ning L, Keser L, Dawson W, van Kleunen M (2011) From ornamental to invasive: the role of introduction history, species traits, and climate in explaining the fate of Asian woody species in Europe. Abstracts of the 11th International Conference on the Ecology and Management of Alien Plant Invasions (EMAPI), 30 August-3 September 2011, University of Hungary, Szombathely, Hungary (oral contribution)
- Gioria M (2011) Patterns of plant diversity in farmland ponds: drivers and function. Abstracts of the 54th Symposium of the International Association for Vegetation Science (IAVS), University of Lyon, France
- Gioria M (2010) Predictors of dytiscid species composition in Irish farmland ponds. Invited presentation within the symposium 'An Inordinate Neglect of Dytiscids: International Endeavors to Understand the Behavior, Ecology, and Systematics of Predaceous Diving Beetles', 2010 Entomological Society of America Annual Meeting, 12-15 December 2010, San Diego, CA, USA (oral contribution)
- Gioria M (2010) Modelling biodiversity patterns in ponds. Abstracts of the 2010 British Ecological Society Annual Meeting, 7-9 September 2010, University of Leeds, UK (oral contribution)
- Gioria M (2010) Use of cross-taxon congruence analysis to identify potential surrogate taxa for freshwater biodiversity. Abstracts of the 40th GfÖ Ecological Society of Germany, Austria and Switzerland Annual Meeting 2010, 30 August-3 September 2010, University of Giessen, Germany (oral contribution)
- Gioria M, Bacaro G, Schaffers A (2010) Assessing the conservation value of farmland ponds: use of predictive techniques to identify surrogate groups. Abstracts of the 95th Ecological Society of America

Annual Meeting, 1-6 August 2010, Pittsburgh, Pennsylvania, PA, USA, in: Nature Precedings, doi:10.1038/npre.2010.5214.1 (oral contribution)

Gioria M, Bacaro G (2009) The power of plant community composition in predicting patterns in water beetle assemblages in farmland ponds. Abstracts of the workshop: Supporting life: vascular plants as determinants of biodiversity, University of Florence, Italy (oral contribution)

Gioria M, Feehan J (2009) Irish farmland ponds: a neglected habitat? Abstracts of the 2009 British Ecological Society Annual Meeting, 7-10 September 2009, University of Hertfordshire, UK (oral contribution)

Gioria M, Feehan J (2009) The significance of ponds in maintaining biodiversity in an intensively farmed landscape. Abstracts of the 94th Ecological Society of America Annual Meeting, 2-7 August 2009, Albuquerque, NM, USA, in: Nature Precedings, doi:10.1038/npre.2009.3596.1 (oral contribution)

Gioria M, Osborne B (2008) Characterising the effects of invasive species on soil seed bank communities: univariate and multivariate techniques. Abstracts of the 5th European Conference on Biological Invasions: NEOBiota 2008, 23-26 September 2008, Prague, Czech Republic (oral contribution)

Gioria M, Osborne B (2008) Alteration in soil seed bank communities associated with invasive plant species. Abstracts of the 5th International Weed Science Congress, British Columbia University, 23-27 June 2008, Vancouver, Canada (oral contribution)

Gioria M, Osborne B (2007) The impact of three invasive species on the diversity of soil seed bank communities. Abstracts of the Ecological Genetics Group Annual Meeting, University of Leicester, UK (oral contribution)

Gioria M, Osborne B (2006) Comparative assessment of the impact of *Fallopia japonica* and *Gunnera tinctoria* on the soil seed bank. Abstracts of the 4th European Conference on Biological Invasions: NEOBiota 2006, 27-29 September 2006, Vienna, Austria

Gioria M, Osborne B (2006) Comparative assessment of the impact of three invasive species on the soil seed bank. Abstracts of the International Symposium on Intractable Weeds and Plant Invaders, 17-21 July 2006, University of the Azores, Ponta Delgada, São Miguel Island, Azores, Portugal (oral contribution)

Gioria M, Osborne B (2006) The impact of invasive plant species on biodiversity. The significance of the soil seed bank. Abstracts of the 14th International Conference on Aquatic Invasive Species, 14-17 May 2006, Kay Biscane, FL (oral contribution)

Gioria M, Osborne B (2005) Soil seed bank dynamics and the long-term impact of three invasive species. Abstracts of the 8th International Conference on the Ecology and Management of Alien Plant Invasions, 5-12 September 2005, University of Silesia, Katowice, Poland (oral contribution)

Gioria M, Osborne B (2005) Alterations in the soil seed bank associated with invasive species. Abstracts of the XVII International Botanical Congress, 17-23 July 2005, Vienna, Austria

Gioria M, Osborne B (2005) The impact of invasive species on the soil seed bank: some implications for habitat restoration. Abstracts of the International Workshop: Limiting Factors in Restoration. 7-9 April 2005, Justus Liebig University, Giessen, Germany (oral contribution)

Gioria M, Osborne B (2005) The impact of *Heracleum mantegazzianum* on the soil seed bank. Abstracts of the International Workshop: The Ecology and Management of the Giant Alien *Heracleum mantegazzianum*. 21-23 February 2005, Justus Liebig University, Giessen, Germany (oral contribution)

Gioria M, Osborne B (2004) The impact of invasive species on biodiversity. The significance of the soil seed bank. Abstracts of the 5th International Symposium on Fauna and Flora of Atlantic Islands, Atlantic Island Ecosystems, 24-27 August 2004, University College Dublin, Ireland

Peer-reviewed abstracts (oral contributions) - National Meetings

Gioria M (2010) The conservation value of ponds in the Irish agricultural landscape. Abstracts of the Workshop: Wetland Conservation in Ireland, Trinity College Dublin, Ireland

Gioria M (2009) Predicting the conservation value of farmland ponds: use of cross-taxon congruence analysis. UCD AFSVM Research Day, University College Dublin, Ireland

Gioria M, Osborne B (2009) Long-term implications of plant invasions: The significance of the soil seed bank. 2009 Invasive Species Ireland Forum, 6-7 April 2009, Queen's University Belfast, Northern Ireland

Gioria M, Feehan J (2009) Aquatic Coleoptera assemblages in the Irish agricultural landscape. Abstracts of the 19th Irish Environmental Researchers' Colloquium, 18-20 February 2009, Waterford Institute of Technology, Ireland

Gioria M, Osborne B (2006) Alterations in composition and size of the seed bank associated with three invasive species. Abstracts of the 2006 Irish Plant Scientists' Association Meeting, 10-12 April 2006, National University of Ireland, Galway, Ireland

Gioria M, Osborne B (2006) The impact of *Gunnera tinctoria* and *Fallopia japonica* on the soil seed bank. Abstracts of the 16th Irish Environmental Researchers' Colloquium, 27-29 January 2006, University College Dublin, Ireland

Gioria M, Osborne B (2005) The impact of invasive plant species on biodiversity. The significance of the soil seed bank. Abstracts of the 15th Irish Environmental Researchers' Colloquium, 28-30 January 2005, IT Sligo, Ireland

Gioria M, Osborne B (2005) The long-term impact of invasive species on soil seed bank dynamics. Abstracts of the 2005 Irish Plant Scientists' Association Meeting, University College Dublin, Ireland

Gioria M, Osborne B (2004) The impact of invasive species on biodiversity. The role of the soil seed bank. Abstracts of the 2004 Irish Plant Scientists' Association Meeting, 23-25 April 2005, Queens University Belfast, Northern Ireland

Environmental Protection Agency Ireland - SEMINAR SERIES

Gioria M (2009) Water beetle assemblages in farmland ponds. Abstracts of the 2009 EPA Ireland Seminar Series, Dublin

Gioria M, Feehan J (2008) Aquatic Coleoptera assemblages in the Irish agricultural landscape: The significance of ponds. Abstracts of the 2008 EPA Ireland Seminar Series, Dublin

Gioria M, Osborne B (2005) Soil seed bank dynamics and the long-term impact of three invasive species. Abstracts of the 2005 EPA Ireland Seminar Series, Wexford, Ireland

Gioria M, Osborne B (2004) The impact of invasive species on biodiversity. The significance of the soil seed bank. Abstracts of the 2004 EPA Ireland Seminar Series, Dublin

Invited seminars

Gioria M. 2019. Roles of soil seed banks in plant invasions. Seminar Series, Department of Biology, University of Pisa, Italy (2h)

Gioria M. 2016. Invasions by alien plants: current knowledge, gaps and challenges. University of Trieste, Italy

Gioria M. 2013. Seed banks and plant invasions. Institute of Botany, Justus-Liebig University, Giessen, Germany

Gioria M. 2012. Plant invasions: mechanisms and impacts. Institute of Plant Physiology, Justus-Liebig University, Giessen, Germany

Gioria M. 2012. Invasions by alien plants: mechanisms and impacts. Interdisciplinary Natural Sciences Centre, Justus-Liebig University, Giessen, Germany

Gioria M. 2011. Evaluating community patterns. Conservation Biology Department, University of Bern, Switzerland

Gioria M. 2011. Explaining and predicting biodiversity patterns: univariate and multivariate approaches. Ecology, Department of Biology, University of Konstanz, Germany

Gioria M. 2010. Advances in regression analysis. School of Biology and Environmental Science. University College Dublin, Ireland

Gioria M. 2010. Modelling cross-taxa relationships using univariate and multivariate analytical approaches. Institute for Biodiversity and Ecosystem Dynamics, University of Amsterdam, The Netherlands

Gioria M. 2010. Plant Invasions in Ireland. Botany Department, University of Hawaii at Manoa, HI

Gioria M. 2009. Irish farmland ponds: a neglected habitat? School of Biology and Environmental Science, University College Dublin, Ireland

Gioria M. 2007. Assessing the effects of plant invasions on soil seed bank communities: univariate and multivariate statistical approaches. University of Massachusetts, Amherst, MA

PROFESSIONAL DEVELOPMENT COURSES

Species distribution models

Summer School: Geo-Ecological Data Analysis, 11-17 July 2010. Institute for Biodiversity and Ecosystem Dynamics, Computational Ecology, University of Amsterdam

R programming / modelling

Training Course: Advances in population and community ecology. 18-30 January 2010, Imperial College London, UK. Course held by Mick Crawley, Russel Lande, and Daniel Reuman

Training Course: Using R to assess trends in biodiversity. 11-17 May 2009, University of Siena, Italy

Structural Equation Modeling

ESA Workshop: Structural Equation Modeling. 2 August 2009, ESA Annual Meeting, Albuquerque, NM

Meta-analysis

ECCB 2012 Workshop: Introduction to meta-analysis and research synthesis in ecology. 23 August 2012. Course held by Elena Kulinskaya (University of East Anglia) and Julia Koricheva (Royal Holloway University of London)

Multivariate analysis of biodiversity data

International Course: Detecting changes in biodiversity: experimental design and data analysis. 4-15 September 2006, University of Pisa, Italy. Organized by the University of Pisa (Italy), the University of Auckland (New Zealand), and the Plymouth Marine Laboratory (UK)

GIS and remote sensing

- GIS training course, 12-13 January 2010, Urban Institute, University College Dublin, Ireland
- GIS training course: 40-h credit course (2001-2002), Faculty of Agriculture, University College Dublin, Ireland
- Remote sensing: 40-h credit course (2001-2002), Faculty of Agriculture, University College Dublin, Ireland

REGISTERED EXPERT

DAISIE (Delivering Alien Invasive Species Inventories for Europe)

NABS (North American Benthological Society) Taxonomic Expert (Aquatic plants and Coleoptera)

CURRENT SOCIETY MEMBERSHIPS

EPSO: European Plant Science Organisation (2008 - present)

Roasio, 13/12/2020

