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Publications: <http://scholar.google.com/citations?user=4ZWGp24AAAAJ&hl=it>

Languages

fluent English and Italian, basic French and German, native Hungarian

Education

1999 PhD in biology, Eötvös University, Budapest, Hungary

1996 MSc in biology, Eötvös University, Budapest, Hungary

Current positions

2024 – 2026 Group Leader, Institute of Biological Research, Cluj-Napoca, Romania

Previous positions

2022 – 2024 Researcher, Department of Chemistry, Life Sciences and Environmental Sustainability, University of Parma, Italy

2021 – 2021 Visiting Researcher, Democracy Institute, Central European University, Budapest, Hungary

2013 – 2021 Scientific Adviser, Centre for Ecological Research, Budapest, Hungary
(2019-2020 Director, CES Balaton Limnological Institute, Tihany, Hungary)

2008 – 2013 Principal Investigator, The Microsoft Research – COSBI, Trento, Italy

2007 – 2008 Research Professor, Hungarian Natural History Museum, Budapest

2003 – 2006 Research Professor, Institute of Ecology and Botany, Vácrátót, Hungary

2002 – 2003 Postdoc, Dept. Plant Taxonomy and Ecology, Eötvös University, Budapest

1999 – 2002 Assistant Professor, Department of Genetics, Eötvös University, Budapest

Awards, fellowships

2019 Prize of the Hungarian Academy of Sciences

2016 – 2017 Fellow, Wissenschaftskolleg zu Berlin, Berlin, Germany

2013 – 2014 Szentágothai Professor at University of Pannonia, Veszprém, Hungary

2003 – 2008 Branco Weiss Fellow, Society in Science, Zürich (at Collegium Budapest IAS)

2002 – 2003 Postdoctoral fellowship, Hungarian Scientific Research Fund (OTKA)

2001 Junior Prize of the Hungarian Academy of Sciences

2000 – 2003 Bolyai Research Fellow of the Hungarian Academy of Sciences

2000 – 2001 Junior Fellow, Collegium Budapest IAS, Budapest, Hungary

Grants > 100.000 EUR

2024-2026: PNRR PredAqua, PI (1.100.000 EUR)

2020-2024: H2020 AtlantECO, WP leader (share: 169.000 EUR)
2015-2019: Hungarian Research Fund grant K 116071, PI (~144.000 EUR)
2003-2008: Branco Weiss Fellowship, PI (~350.000 EUR)

International experience

2022: Visiting researcher, Aarhus University, Denmark (3 months)
2022-: Member, Smartlab tudásközpont, Óbuda University, Budapest, Hungary
2021-: External Affiliate, Democracy Institute, Central European University, Budapest
2016-2017: Fellow, Wissenschaftskolleg zu Berlin IAS, Germany (10 months)
2016-: Associated Researcher, Stazione Zoologica Anton Dohrn, Naples, Italy
2010-2013: NESCent working group participant (Origin of sociality), Durham, NC, USA
2005-2007: NCEAS working group participant (Natural security), Santa Barbara, CA, USA
2003: ESF InterACT Exchange Grant, CSIC IIM, Vigo, Spain
2001: ESF LINKECOL Exchange Grant, CPB, Imperial College, Silwood Park, UK

International invited/plenary talks

2025: Ecological Networks on-line course, University of Cape Town, South Africa
2022: Aarhus University, Department of Biology, Denmark
2021: Ecological Security Forum, Nanjing Normal University, China (remote)
2019: Associazione Italiana di Oceanografia e Limnologia, Bologna, Italy
2019: 2nd International Conference on Community Ecology, Bologna, Italy
2019: Kolozsvári Biológus Napok, Cluj-Napoca, Romania
2019: Associazione Italiana di Oceanologia e Limnologia, invited plenary, Bologna, Italy
2015: The Genome Analysis Centre, Norwich, UK
2015, 2016, 2017, 2019, 2021: summer school on Ecological Networks, Uni Parma, Italy
2014, 2016: summer school on Network Analysis, Universidad de Antofagasta, Chile
2014: international summer school on Complex Networks, Bertinoro, Italy
2013: The 4th Food Web Symposium, Giessen, Germany
2013: European Space Agency, Topical Team meeting on stress, Roma, Italy
2012: workshop on Ecological Networks, Student Conference, Bangalore, India
2012: Kavli Royal Society International Scientific Centre, Chicheley Hall, UK
2012, 2013, 2017: Institute of Statistical Sciences, Academia Sinica, Taipei, Taiwan
2011: Scuola Internazionale Superiore di Studi Avanzati (SISSA), Trieste, Italy
2011: Parmenides Foundation, Pullach/München, Germany
2010: US Office for Naval Research Global workshop, Edinburgh, UK
2009: US Office for Naval Research Global workshop, Istanbul, Turkey
2009: IIS World Congress of Sociology, invited plenary, Yerevan, Armenia
2008: Rajiv Gandhi Centre for Biotechnology, Trivandrum, India
2004: Harmful Algal Blooms world conference, invited plenary, Cape Town, South Africa

Journal special issues (co-)edited

Jordán, F. and Scotti, M. (Eds.) 2012. 7th European Conference on Ecological Modelling (ECEM). Ecological Modelling Vol. 245, pages 1-218.

Jordán, F. and Podani, J. (Eds.) 2018. 1st International Conference on Community Ecology (ComEc). Community Ecology Vol. 19, pages 105-202.

Szathmáry, E. and Jordán, F. (Eds.) 2019. Systems ecology and evolution. Current Opinion in Systems Biology Vol. 13, pages 52-149.

Bodini, A., Dambacher, J., Jordán, F. (Eds.) 2021. Looking through the mesh of a net: the challenge of socio-ecological systems. Frontiers in Ecology and Evolution.

Valdovinos, F., Bodini, A., Jordán, F. (Eds.) 2024. Connected interactions: enriching food web research by spatial and social interactions. Philosophical Transactions Proc. Roy. Soc. London, series B.

Libralato, S., Bacaro, G., Patonai, K., Grilli, J., Jordán, F. (Eds.) 2024. Special Issue: 4th International Conference on Community Ecology. Volume 25, Issue 3.

Supervision

Postdoc: Catarina Gouveia (2018, 1 year, Erasmus), Eric Puche (2019, 3 months, Internship), Emanuele Giacomuzzo (2020-2021, 9 months, internship).

PhD: Zsófia Benedek (2007-2011, Eötvös University, Budapest), Nerta Gjata (2010-2013, University of Trento, Italy), Patonai Katalin (2018-, Eötvös University, Budapest), Bálint Kovács (2018-, Eötvös University, Budapest), Juliana Pereira (2018-, Central European University, Vienna, Austria), András Hidas (2020-, Eötvös University, Budapest)
+ 11 MSc: students

Conference organization

2023: 4th International Conference on Community Ecology, Trieste, Italy, member
2021: 3rd International Conference on Community Ecology, on-line, chair
2017: 1st International Conference on Community Ecology, Budapest, Hungary, chair
2012: 2nd Society for Conservation Biology Asia, Bangalore, India, symposium organizer
2011: 7th European Conference in Ecological Modelling, Riva del Garda, Italy, chair
2009: The Unexpected Link workshop, CEU Center for Network Science, co-organizer

Functions

2021- member, Committee on Sustainable Development, Hungarian Academy of Science
2020- Advisory Board member, Enrich Brasil
2018 panel chair, Ecology and Evolution, Hungarian Scientific Research Fund
2016-2019 ESF College of Expert Reviewers
2016-2017 Head of Department, Danube Research Institute CER, Budapest, Hungary
2015- advisory board member, RCISD Hungary
2014- Advisory Board, Japan-EU Partnership in Innovation, Science and Technology
2014-2020 panel member, ERC StG LS8
2010-2014 panel member, Lithuanian Research Council
2005-2006 Head of Department, Institute of Ecology and Botany, Vácrátót, Hungary

Journal editor

2021- editor, Euro-Mediterranean Journal of Environmental Integration
2015 - 2019 editor, Scientific Reports
2014 - editor, Food Webs
2013 - editor, Journal of Complex Networks
2012 - 2017 associate editor, Ecological Complexity

2007 - editor, Ecology Letters 2007-
2007 - editor, Current Conservation
2006 - editor, Community Ecology (Editor-in-Chief 2016-)

PhD opponent

2020 opponent, PhD thesis, Daniel Pereira, University of Ferrara, Italy
2019 opponent, PhD thesis, Daniel Power, University of Southampton, UK
2017 opponent, PhD thesis, Gabriele Tosadori, University of Verona, Italy
2017 member, PhD defense committee, Shu-Mei Lai, Academia Sinica, Taiwan
2017 opponent, PhD thesis, Marta Rocchi, University of Ferrara, Italy
2011 opponent, PhD thesis, Benoit Gauzens, Université Rennes, France
2007 opponent, PhD thesis, Lucia Pascual-Hortal, Universitat de Lleida, Spain

Reviewer

2015 - panel member, chair and reviewer, National Science Center, Poland
2014 - 2020 panel member, European Research Council LS8 StG
2006 - panel member and reviewer, Lithuanian Research Council
+ Occasional reviews for NSF, ESF, Czech Science Foundation, Leverhulme trust, Strasbourg University IAS, Collegium Budapest IAS, Wissenschaftskolleg zu Berlin IAS, FWO, USA-Israel bilateral grants, Humboldt Stiftung, Volkswagen Stiftung, NERC, NRF South Africa, DFG, La Caixa, Romanian Scientific Council

Selected interational media appearances

2022: Radio Orange, Vienna: https://www.youtube.com/watch?v=6cA0_0hes8I
2022: Friderikusz podcast: <https://www.youtube.com/watch?v=5VdjXlK6Sy4&t=11s>
2022: Researchers' Night: <https://app.kutatokejszakaja.hu/esemenyek/obudai-egyetem-neumann-janos-informatikai-kar/a-tenger-fonnyado-gyumolcsei>
2022: UNICEF Climate Hero: <https://www.youtube.com/watch?v=dfw6qQCUIIk>
2021: National Geographic Hungary
2013: FameLab Italy in RAI3
2011: Italian journal Le Scienze, researcher of the month

Teaching

Courses taught include Quantitative genetics (1998-1999, Eötvös University, Budapest); Organisation of food webs (2001-2008, Eötvös University, Budapest; 2007, University of Debrecen); Community ecology (Eötvös University, Budapest); Biometry (2002, Eötvös University, Budapest); Landscape ecology (2006, Eötvös University, Budapest; 2006, University of Debrecen); Genetics (2002-2003, Eötvös University, Budapest); Networks in biology (2011, University of Trento, Italy); Limnoecology (2014, Pannon University, Veszprém), Networks in ecology and ethology (2022, University of Parma, Italy).

Publications

Books:

Lecca, P., Laurenzi, I. and Jordán, F. 2013. Deterministic versus Stochastic modeling in biochemistry and systems biology. Woodhead Publishing, Philadelphia, USA, pp. 376.

Books (edited):

Jordán F., Scotti M. and Lencioni V. (Eds), 2011. Ecological hierarchy from the genes to the biosphere. Book of Abstracts, 7th European Conference on Ecological Modelling, 30 May - 2 June 2011, Riva del Garda (Trento, Italy). 151 pp.

Jordán, F. and Jørgensen, S.E. (Eds.) 2012. Models of the ecological hierarchy from molecules to the ecosphere. Elsevier, Amsterdam.

Ortiz, M. and Jordán, F. (Eds.) 2021. Marine coastal ecosystems modelling and conservation: Latin American experiences. Springer Verlag.

Book chapters:

Jordán, F. 2001. Ecosystem flow networks and community control. In: Ecosystems and Sustainable Development III., Villacampa, Y., Brebbia, C.A. and Uso, J.L. (Eds.), WIT Press, Southampton, pp. 771-780.

Jordán, F. 2003. Quantifying landscape connectivity: key patches and key corridors. In: Ecosystems and Sustainable Development IV., Tiezzi, E., Brebbia, C.A. and Uso, J.L. (Eds.), WIT Press, Southampton, pp. 883-892.

Jordán, F. 2005. Topological key players in communities: the network perspective. In: Ecosystems and Sustainable Development V., Tiezzi, E., Brebbia, C. A., Jørgensen, S. and Almorza Gomar, D. (eds.), WIT Press, Southampton, pp. 87-96.

Jordán, F. 2005. Topological constraints on the dynamics of wasp-waist ecosystems. In: Velikova, V. and Chipev, N. (Eds.): Large-scale disturbances (regime shifts) and recovery in aquatic ecosystems: challenges for management towards sustainability. UNESCO-Roste/BAS, pp. 58-67.

Jordán, F. 2007. Topology and vulnerability of the London underground system. In: Friemel, T. N. (Ed.), Applications of Social Network Analysis, UVK Verlagsgesellschaft mbH, Konstanz, pp. 153-161.

Kun, Á., Pongor, S., Jordán, F. and Szathmáry, E. 2007. Catalytic propensity of amino acids and the origins of the genetic code and proteins. In: Barbieri, M. (Ed.), Codes of Life, pp. 39-58, Springer Verlag, Berlin.

Jordán, F. 2008. Network analysis: linking parts to the whole in nature and society. In: Sagarin, R. and Taylor, T. (Eds.): *Natural Security – a Darwinian Approach to a Dangerous World*, University of California Press, Berkeley and Los Angeles, 240-260.

Jordán, F., Baranyi, G. and Ciocchetta, F. 2010. A hierarchy of networks spanning from individual organisms to ecological landscapes. In: Estrada, E., Fox, M., Higham, D.J., Oppo, G.-L. (Eds.), *Network Science: Complexity in Nature and Technology*, pp. 165-184, Springer Verlag, Berlin.

Jordán, F. 2011. Maintaining connectivity: topological considerations on landscape digraphs. In: Liu, J., Hull, V., Morzillo, A.T., Wiens, J.A. (Eds.): *Sources, Sinks, and Sustainability across Landscapes*, Cambridge University Press, Cambridge, pp. 258-272.

Jordán, F., Livi, C.M. and Lecca, P. 2012. Structural and dynamical heterogeneity in ecological networks. In: *Systemic Approaches in Bioinformatics and Computational Systems Biology: Recent Advances*, Lecca, P., Tulpan, D. and Rajaraman, K. (eds.), IGI Global, Hershey, PA, USA, pp. 141-162.

Navia, A.F., Cortes, E., Jordán, F., Cruz-Escalona, V. and Mejia-Falla, P. 2012. Changes to marine food webs caused by fishing. *InTech Publisher*, 417-452.

Jordán, F. and Jörgensen, S.E. 2012. Preface. In: Jordán, F. and Jörgensen, S.E. (Eds.) *Models of the ecological hierarchy from molecules to the ecosphere*. Elsevier, Amsterdam, pp. xi-xii.

Jörgensen, S.V. and Jordán, F. 2012. Introduction. In: Jordán, F. and Jörgensen, S.E. (Eds.) *Models of the ecological hierarchy from molecules to the ecosphere*. Elsevier, Amsterdam, pp. xxiii-xxxi.

Rocchini, D., Balkhenol, N., Delucchi, L., Ghisla, A., Hauffe, H., Imre, A., Jordán, F., Nagendra, H., Neale, D., Ricotta, C., Varotto, C., Vernesi, C., Wegmann, M., Wohlgemuth, T. and Neteler, M. 2012. Spatial algorithms applied to landscape diversity estimate by remote sensing. In: Jordán, F. and Jörgensen, S.E. (Eds.) *Models of the ecological hierarchy from molecules to the ecosphere*. Elsevier, Amsterdam, pp. 391-411.

Ciocchetta, F., Prandi, D., Forlin, M. and Jordán, F. 2012. A network model of the hierarchical organization of supra-individual biosystems. In: Jordán, F. and Jörgensen, S.E. (Eds.) *Models of the ecological hierarchy from molecules to the ecosphere*. Elsevier, Amsterdam, pp. 517-532.

Jörgensen, S.V. and Jordán, F. 2012. Conclusive remarks about hierarchy theory and multi-levels models. In: Jordán, F. and Jörgensen, S.E. (Eds.) *Models of the ecological hierarchy from molecules to the ecosphere*. Elsevier, Amsterdam, pp. 547-548.

Scotti, M., Hartvig, M., Winemiller, K.O., Li, Y., Jauker, F., Jordán, F., Dormann, C.F. 2017. Trait-based and process-oriented modeling in ecological network dynamics. In: *Adaptive Food Webs*. Moore, J.C., de Ruiter, P.C., McCann, K.S. and Wolters, V. (Eds.), Cambridge University Press, pp. 228-256.

Jordán, F., Scotti, M. and Yule, C.M. 2017. Food web simulations: stochastic variability and systems-based conservation. In: Adaptive Food Webs. Moore, J.C., de Ruiter, P.C., McCann, K.S. and Wolters, V. (Eds.), Cambridge University Press, pp. 342-351.

Scotti, M. and Jordán, F. 2017. An individual-based simulation model to link population, community and metacommunity dynamics. In: Adaptive Food Webs. Moore, J.C., de Ruiter, P.C., McCann, K.S. and Wolters, V. (Eds.), Cambridge University Press, pp. 352-371.

Ortiz, M., Hermosillo-Núñez, B.B. and Jordán, F. 2020. Trophic networks and ecosystem functioning. In: Antarctic Seaweeds. Gómez, I. and Huovinen, P. (Eds.), Springer, Cham, pp. 309-335.

Hermosillo-Núñez, B.B., Ortiz, M., Jordán, F., Endrédi, A. 2021. Macroscopic properties and keystone species complexes in kelp forest ecosystems along the north-central Chilean coast. In: Ortiz, M., Jordán, F. (Eds.) Marine coastal ecosystems modelling and conservation: Latin American experiences. Springer Verlag.

Ortiz, M., Jordán, F. 2021. Modelling aim the conservation of coastal marine ecosystem in Latin America. In: Ortiz, M., Jordán, F. (Eds.) Marine coastal ecosystems modelling and conservation: Latin American experiences. Springer Verlag.

Scientific papers:

Jordán, F. and Molnár, I. 1999. Reliable flows and preferred patterns in food webs. *Evolutionary Ecology Research*, 1:591-609.

Jordán, F., Takács-Sánta, A. and Molnár, I. 1999. A reliability theoretical quest for keystones. *Oikos*, 86:453-462.

Jordán, F. 2000. A reliability-theory approach to corridor design. *Ecological Modelling*, 128:211-220.

Jordán, F. 2000. Is the role of trophic control larger in a stressed ecosystem? *Community Ecology*, 1:139-146.

Jordán, F. 2001. Seasonal changes in the positional importance of components in the trophic flow network of the Chesapeake Bay. *Journal of Marine Systems*, 27:289-300.

Szathmáry, E., Jordán, F. and Pál, Cs. 2001. Can genes explain biological complexity? *Science (Perspective)*, 292:1315-1316.

Jordán, F. 2001. Strong threads and weak chains? - a graph theoretical estimation of the power of indirect effects. *Community Ecology*, 2:17-20.

Jordán, F. 2001. Adding function to structure - comments on Palmarola landscape connectivity. *Community Ecology*, 2:133-135.

- Jordán, F. 2001. Trophic fields. *Community Ecology*, 2:181-185.
- Jordán, F., Scheuring, I. and Vida, G. 2002. Species positions and extinction dynamics in simple food webs. *Journal of Theoretical Biology*, 215:441-448.
- Jordán, F. and Scheuring, I. 2002. Searching for keystones in ecological networks. *Oikos*, 99:607-612.
- Jordán, F., Scheuring, I. and Molnár, I. 2003. Persistence and flow reliability in simple food webs. *Ecological Modelling*, 161:117-124.
- Jordán, F., Báldi, A., Orci, K.M., Rácz, I. and Varga, Z. 2003. Characterizing the importance of habitat patches and corridors in maintaining the landscape connectivity of a *Pholidoptera transsylvanica* (Orthoptera) metapopulation. *Landscape Ecology*, 18:83-92.
- Jordán, F., Liu, W.-C. and van Veen, F.J.F. 2003. Quantifying the importance of species and their interactions in a host-parasitoid community. *Community Ecology*, 4:79-88.
- Jordán, F. 2003. Comparability: the key to the applicability of food web research. *Applied Ecology and Environmental Research*, 1:1-18.
- Jordán, F. 2003. On the functional trophic height of whiting. *Ecological Indicators*, 3:223-225.
- Jordán, F. and Scheuring, I. 2004. Network Ecology: topological constraints on ecosystems dynamics. *Physics of Life Reviews*, 1:139-172.
- Jávor, B., Jordán, F. and Török, J. 2005. A comparative sink web analysis of two birds in two habitats: trophic structure, functionality, aggregation and system-level indication. *Community Ecology*, 6:13-22.
- Jordán, F., Liu, W.-C. and Wyatt, T. 2005. Topological constraints on the dynamics of wasp-waist ecosystems. *Journal of Marine Systems*, 57:250-263.
- Jordán, F., Liu, W.-C. and Davis, A.J. 2006. Topological keystone species: measures of positional importance in food webs. *Oikos*, 112:535-546.
- Jordán, F., Scheuring, I., Vasas, V. and Podani, J. 2006. Architectural classes of aquatic food webs based on link distribution. *Community Ecology*, 7:81-90.
- Vasas, V. and Jordán, F. 2006. Topological keystone species in ecological interaction networks: considering link quality and non-trophic effects. *Ecological Modelling*, 196:365-378.
- Jordán, F. and Wyatt, T. 2006. A graph theory examination of the global spreading hypothesis. *African J. Marine Science*, 28:371-374.

Field, B., Jordán, F. and Osbourne, A. 2006. Tansley Review: First encounters – Deployment of defense-related natural products by plants. *New Phytologist*, 172:193-207.

Liu, W.-C., Lin, W.H., Davis, A. J., Jordán, F., Yang, H.T. and Hwang, M.J. 2007. A network perspective on the topological importance of enzymes and their phylogenetic conservation. *BMC Bioinformatics*, 8:121.

Vasas, V., Lancelot, C., Rousseau, V. and Jordán, F. 2007. Eutrophication and overfishing in temperate nearshore pelagic food webs: a network perspective. *Marine Ecology Progress Series*, 336:1-14.

Jordán, F., Benedek, Zs. and Podani, J. 2007. Quantifying positional importance in food webs: a comparison of centrality indices. *Ecological Modelling*, 205:270-275.

Benedek, Zs., Jordán, F. and Báldi, A. 2007. Topological keystone species complexes in ecological interaction networks. *Community Ecology*, 8:1-8.

Scotti, M., Podani, J. and Jordán, F. 2007. Weighting, scale dependence and indirect effects in ecological networks: a comparative study. *Ecological Complexity*, 4:148-159.

Jordán, F., Magura, T., Tóthmérész, B., Vasas, V. and Ködöböcz, V. 2007. Carabids (*Coleoptera: Carabidae*) in a forest patchwork: a connectivity analysis of the Bereg Plain landscape graph. *Landscape Ecology*, 22: 1527-1539.

Jordán, F. 2008. Predicting target selection by terrorists: A network analysis of the 2005 London underground attacks. *International Journal for Critical Infrastructures*, 4: 206-214.

Wey, T., Blumstein, D.T, Shen, W. and Jordán, F. 2008. Social network analysis of animal behaviour: a promising tool for the study of sociality. *Animal Behaviour*, 75: 333-344.

Jordán, F., Okey, T.A., Bauer, B. and Libralato, S. 2008. Identifying important species: a comparison of structural and functional indices. *Ecological Modelling*, 216: 75-80.

Chen, H.W., Liu, W.C., Davis, A.J., Jordán, F., Hwang, M.J. and Shao, K.T. 2008. Network position of hosts in food webs and their parasite diversity. *Oikos*, 117: 1847-1855.

Bhadra, A., Jordán, F., Sumana, A., Deshpande, S. and Gadagkar, R. 2009. A comparative social network analysis of wasp colonies and classrooms: linking network structure to functioning. *Ecological Complexity*, 6: 48-55.

Jordán, F. 2009. Keystone species in food webs. *Philosophical Transactions of the Royal Society, London, series B*, 364:1733-1741.

Vasas, V., Magura, T., Jordán, F. and Tóthmérész, B. 2009. Graph theory in action: evaluating planned highway tracks based on connectivity measures of a fragmented forest landscape. *Landscape Ecology*, 24:581-586.

- Jordán, F., Liu, W.-C. and Mike, Á. 2009. Trophic field overlap: a new approach to quantify keystone species. *Ecological Modelling*, 220:2899-2907.
- Jordán, F. and Osváth, Gy. 2009. The sensitivity of food web topology to temporal data aggregation. *Ecological Modelling*, 220:3141-3146.
- Móréh Á., Jordán, F., Szilágyi, A. and Scheuring, I. 2009. Overfishing and regime shifts in minimal food web models. *Community Ecology*, 10:236-243.
- Jordán, F. 2009. Children in time: community organisation in social and ecological systems. *Current Science*, 97:1579-1585.
- Valentini, R. and Jordán, F. 2010. CoSbiLab Graph: the network analysis module of CoSbiLab. *Environmental Modelling and Software*, 25:886-888.
- Scotti, M. and Jordán, F. 2010. Relationships between centrality indices and trophic positions in food webs. *Community Ecology*, 11:59-67.
- Orlóci, L., Podani, J. and Jordán, F. 2010. Community Ecology: ten years are gone. Editorial. *Community Ecology*, 11:1-4.
- Mazza, T., Romanel, A. and Jordán, F. 2010. Estimating the divisibility of complex biological networks by sparseness indices. *Briefings in Bioinformatics*, 3:364-374.
- Nguyen, T.P. and Jordán, F. 2010. A quantitative approach to study indirect effects among disease proteins in the human protein interaction network. *BMC Systems Biology*, 4:103.
- Bauer, B., Jordán, F. and Podani, J. 2010. Node centrality indices in food webs: rank orders versus distributions. *Ecological Complexity*, 7:471-477.
- Liu, W.C., Chen, H.-W., Jordán, F., Lin, W.-H. and Liu, W.-J. 2010. Quantifying the interaction structure and the topological importance of species in food webs: a signed digraph approach. *J. Theor. Biol.*, 267:355-362.
- Benedek, Zs., Nagy, A., Rácz, I.A., Jordán, F., and Varga, Z. 2011. Landscape metrics as indicators: quantifying habitat network changes of a bush-cricket *Pholidoptera transsylvanica* in Hungary. *Ecological Indicators*, 11:930-933.
- Kahramanogullari, O., Lynch, J. and Jordán, F. 2011. CoSbi LIME: a language interface for stochastic dynamical modelling in ecology. *Environmental Modelling and Software*, 26:685-687.
- Baranyi, G., Saura, S., Podani, J. and Jordán, F. 2011. Contribution of habitat patches to network connectivity: redundancy and uniqueness of topological indices. *Ecological Indicators*, 11:1301-1310.
- Livi, C.M., Jordán, F., Lecca, P. and Okey, T.A. 2011. Identifying key species in ecosystems with stochastic sensitivity analysis. *Ecological Modelling*, 222:2542-2551.

Nguyen, T.P., Liu, W.C. and Jordán, F. 2011. Inferring pleiotropy by network analysis: linked diseases in the human PPI network. *BMC Systems Biology*, 5:179.

Jordán, F., Scotti, M. and Priami, C. 2011. Process algebra-based models in systems ecology. *Ecological Complexity*, 8:357-363.

Kahramanoğullari, O., Jordán, F. and Priami, C. 2012. Composability: perspectives in ecological modeling. *Lecture Notes in Computer Science*, 6479:136-148.

Jordán, F., Gjata, N., Shu Mei and Yule, C.M. 2012. Simulating food web dynamics along a gradient: quantifying human influence. *PLoS ONE* 7(7): e40280.

Lai, S.M., Liu, W.C., and Jordán, F. 2012. On the centrality and uniqueness of species from the network perspective. *Biology Letters*, 8:570-573.

Gjata, N., Scotti, M. and Jordán, F. 2012. The strength of simulated indirect interaction modules in a real food web. *Ecological Complexity*, 11:160-164.

Jordán, F. and Scotti, M. 2012. From C:P ratios to polar meta-ecosystems. Editorial. *Ecological Modelling*, special issue, 245:1-2.

Vaggi, F., Dodgson, J., Bajpai, A., Chessel, A., Jordán, F., Sato, M., Carazo-Salas, R.E. and Csikász-Nagy, A. 2012. Linkers of cell polarity and cell cycle regulation in the fission yeast protein interaction network. *PLoS Computational Biology*, 8(10): e1002732.

Jordán, F., Nguyen, T.P. and Liu, W.C. 2012. Studying protein-protein interaction networks: a systems view on disease. *Briefings in Functional Genomics*, els035.

Scotti, M., Gjata, N., Livi, C.M. and Jordán, F. 2012. Dynamical effects of weak trophic interactions in a stochastic food web simulation. *Community Ecology*, 13:230-237.

Ortiz, M., Levins, R., Campos, L., Berrios, F., Campos, F., Jordán, F., Hermosillo, B., Gonzalez, J. and Rodriguez, F. 2013. Identifying keystone trophic groups in benthic ecosystems: implications for fisheries management. *Ecological Indicators*, 25:133-140.

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