

CURRICULUM VITAE 2022

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Born in Dublin, 1961, my original degrees (University College Dublin, 1983; University College London, 1985 and 1989) were all in Electronic Engineering. Since 1990, I have worked on problems associated with the environment, focusing on theoretical and applied ecology. My main research interests are in the application of mathematics and statistics to ecology and conservation. This has included population dynamics, population genetics, ecological time-series analysis and the application of fractals to ecology. Recently, I have been working on the estimation and interpretation of extinction debt. Also, I have worked on zoonotic aspects of the SARS-CoV-2 pandemic. Since taking up my post at Ioannina in 2007, I have become increasingly involved with field ecology as well as continuing in theoretical ecology. In both an educational and research capacity, I am also interested in the biodiversity and conservation in the region of Epirus, Greece, especially regarding orchids.

Languages: English, Greek

Employment since 1990

Dates	Place	Position
October 2012-	University of Ioannina (UI)	Professor of Ecology
2007-2012	University of Ioannina (UI)	Assoc. Prof. of Functional Ecology
Sept 2003-Sept 2006	Technical Education Foundation (TEI): Moundania School of Fisheries & Aquaculture	Part-time lecturer
January 1999- December 2001	Aristotle University of Thessaloniki (AUTH), School of Biology	Postdoctoral Research associate
January 1996 to December 1998	University of St. Andrews, Mathematical Institute	Lecturer
February 1990 to October 1995	Imperial College London, Centre for Population Biology	Postdoctoral Research associate

Teaching Activities and Experience

- 2007 -** Course coordinator for core module **General Ecology**, Department of Biological Applications & Technology (BET), University of Ioannina (UOI).
- 2019 -** Coordinator for elective module **Environmental Data Analysis**, BET, UOI.
- 2020 -** Coordinator for elective module **Origins and Spread of Infectious Disease**, BET, UOI.
- 2012 -** Coordinator for elective module **Field Ecology**, BET, UOI.
- 2007 - 2018** Coordinator for core module **Applied Ecology**, BET, UOI.
- 2001 - 2012** Lecturer for **Modeling & Statistics for Conservation Biology** and **Time-Series Analysis** for the MSc. programmes, School of Biology, Aristotle University of Thessaloniki
- 2010 - 2012** Lecturer, Society for Conservation Biology/Erasmus **Greek Summer School in Conservation Biology**, Papingo, Zagori, Ioannina, Greece

Successful PhD students

Name	Subject	Dates
Athanasios Kallimanis*	Distributions of plant abundance	1999-2002
Vasiliki Sgardeli	Predicting biodiversity decline following habitat loss	2011-2015
Konstantina Zografou	Diversity and distribution patterns of Lepidoptera and Orthoptera in Greece and their responses to local and global climate change	2011-2014
Elli Tsirkali **	Biodiversity distribution patterns along an elevation gradient in Cyprus	2010-2022
Anastasia-Efsevia Tzortzaki	Population ecology and genetics of <i>Campanula</i> genus representatives in Greek mountainous regions	2011-2015
Valentino Marini-Govigli	Modelling socio-ecological interactions of sacred forests in northern Greece	2014-2020
Martha Charitonidou	Modelling the population dynamics and distribution of two <i>Ophrys</i> (Orchidaceae) species in northwestern Greece	2016-2022
Sofoklis Mouratidis	Spatial Modeling of Ecological Community Dynamics and Extinction Debt	2022-

* Co-supervised by S.Sgardelis

** Supervised by JMH from 2011-2018 (Otherwise ET was supervised by V. Kati)

Funding ID: Successful Grant Applications (Since 2010)

Year	Project and Funding Programme	Value
2022	<ul style="list-style-type: none"> • Extinction Debt of Orchids using Changes in Space and Time (ExOrChiST), H.F.R.I. Research Projects to Support Faculty Members & Researchers • Viability Study for Vultures, Griffons and Golden Eagles in Dadia, Organisation for the protection of Biodiversity of Thrace 	€ 200,000 € 8,064
2017	<ul style="list-style-type: none"> • “Assessment of the effect of collecting orchids for sale in the abundance and population dynamics of wild populations in Northern Pindos”, ESPA 2014-2017 (EDBM34) • INCREDible - “Innovation Networks of Cork, Raisins and Edibles”, HORIZON2020 • Modelling the population dynamics and rarity of two <i>Ophrys</i> species (Orchidaceae) in Northwestern Greece- ELIDEK (PhD student) 	€ 62,650 € 105,518 €24,600
2011	<ul style="list-style-type: none"> • SAGE - “Conservation through Religion: the Sacred Groves of Epirus” THALIS programme • FRUNDIERS - “Fungal responses under differing environmental regimes”, Postdoctoral Prog.: Epirus (ESPA 2007-13) 	€509,820 €140,000
2010	<ul style="list-style-type: none"> • “Population ecology and genetics of the genus <i>Campanula</i> at the core and margins of their distributions in montane areas of Greece” Herakleitos II Prog. (PhD) • “Diversity and distribution patterns of Lepidoptera and Orthoptera in Greece and their responses to local and global climate change” Herakleitos II Prog. (PhD) • Award under “Research Promotion Foundation's Framework Programme For Research, Technological Development And Innovation (RPF'S FP 2009-2010” (ΠENEK/0609/34) (PhD) 	€45,000 €45,000 €105,000

Other Activities

- 2021. Chaired organising committee for the 10th Hellenic Conference of Ecology (“HELECOS 10”) 14-17 October 2021.
- 2012 - . Chaired the board of directors for the University of Ioannina Field Station PALASE
- 2014 - 2019. Organising committee of the Greek Summer School in Conservation Biology. Chairman 2014-2016.
- Currently I am responsible for the Laboratory of Ecology at BET, which includes postdoctoral researchers and PhD candidates.

Invited and plenary presentations, Radio talks etc. (since 2012)

- Radio presentation: ***Where do pandemics come from and how do they spread? The role of ecology and evolution***. Part of the series: "ALL FOR OUR HEALTH" on Radio ERT, June 2022
- Invited lecture: ***The CO2 challenge: Previewing the future workload of forests***, at Final Event of the CONFORMIT Project (CONtribution of FORests to climate change MITigation), Feb 2022
- Opening address and lecture: ***Why Crises in the Modern World?*** HELECOS 10 Oct. 2021
- Invited lecture: ***Biodiversity loss – what is driving the extinction rates?***, State of the World's Plants and Fungi Symposium, Royal Botanic Gardens, Kew, October 2020
- Plenary Lecture: ***Pax perniciosa – the deceptive dynamics of biodiversity loss***, 2nd International Conference on Community Ecology, Alma Mater Studorium, University of Bologna, June 2019
- Keynote lecture: ***Understanding the dynamics of mammal biodiversity loss***, 14th International Congress on the Zoogeography and Ecology of Greece and Adjacent Regions (ICZEGAR), Thessaloniki, June 2019
- Invited lecture: ***Understanding the Dynamics of Biodiversity Loss*** at University of Glasgow (Institute of Biodiversity, Animal Health & Comparative Medicine) February 2018
- Invited lecturer at Duke University (Nicholas School of the Environment), October 2017
- Plenary Lecture: ***R is for Revolution. Is Ecological Theory Changing?***, Hellenic Ecological Society Conference, Mitilini 2014
- Invited lecture: ***Earth's temperature as a process with Long Term Persistence and its importance for the Attribution Problem*** at Institut Català de Ciències del Clima (IC3), Barcelona, Spain, 2012

Publications list

2022

1. Ticktin, T., Charitonidou, M., Douglas, J., **Halley, J.M.**, Hernández-Apolinar, M., Liu, H., Mondragón, D., Pérez-García, E., Tremblay, R., Phelps, J. Wild orchids: A framework for identifying sustainable harvest, *Biological Conservation* (in Review).
2. G. Pappas, D. Vokou, I. Sainis, and **J. M. Halley**. SARS-CoV-2 as a zooanthroponotic infection: spillbacks, secondary spillovers, and their importance. *Microorganisms* (in Review).
3. Charitonidou, M., Kougioumoutzis, K., Karypidou, M.C. and **Halley, J.M.**, 2022. 'Fly to a Safer North': Distributional Shifts of the Orchid *Ophrys insectifera* L. Due to Climate Change. *Biology*, **11**(4), p.497.
4. Zannini, P., Frascaroli, F., Nascimbene, J., **Halley, J.M.**, Stara, K., Cervellini, M., Di Musciano, M., De Vigili, F., Rocchini, D., Piovesan, G. and Alessi, N., 2022. Investigating sacred natural sites and protected areas for forest area changes in Italy. *Conservation Science and Practice*, **4**(8), p.e12695.
5. Borda-de-Água, L., Borges, P.A. and **Halley, J.M.** eds., 2022. Theoretical Approaches to Community Ecology. *Frontiers*.
6. **Halley, J.M.**, 2022. Three visions of environmental apocalypse, or not [Book review]. *Conservation Biology*, **36**, e13923.

2021

1. J.M. Halley & M. Charitonidou (eds.) 2021. Proceedings of the 10th Panhellenic Ecology Conference: Ecology and Nature Conservation: progress and challenges in a time of crisis. HELECOS – Hellenic Ecological Society, Ioannina.
2. Charalampopoulos, Athanasios, Athanasios Damialis, Maria Lazarina, **John M. Halley**, and Despoina Vokou. "Spatiotemporal assessment of airborne pollen in the urban environment: The pollenscape of Thessaloniki as a case study." *Atmospheric Environment* **247** (2021): 118185.
3. Charitonidou, Martha, Konstantinos Kougioumoutzis, and **John M. Halley**. "An Orchid in Retrograde: Climate-Driven Range Shift Patterns of *Ophrys helenae* in Greece." *Plants* **10**, no. 3 (2021): 470.
4. Schäffler, Livia, Peter M. Kappeler, and **John M. Halley**. "Mouse Lemurs in an Assemblage of Cheirogaleid Primates in Menabe Central, Western Madagascar—Three Reasons to Coexist." *Frontiers in Ecology and Evolution* **9** (2021): 149.
5. R. Tsiakiris, **John M. Halley**, Kalliopi Stara, Nikos Monokrousos, Chryso Karyou, Nicolaos Kassinis, Minas Papadopoulos, Stavros M. Xirouchakis, Modelling poisoning effects on vulture population restoration: are small but frequent episodes worse than large but rare?, *Web Ecology* **21**, no. 2 (2021): 79-93.
6. **J.M. Halley** and S.L. Pimm, The dynamic hypercube as a niche community model, *Frontiers in Ecology and Evolution*, 2021, **9**, 686403.
7. **John M. Halley**, Despoina Vokou, G. Pappas and I. Sainis, Evolving SARS-CoV-2 variants and mutational cascades. *Microbial pathogenesis*, **161**, p.105237.
8. Kallimanis, Athanasios S., and **John M. Halley**. "Does Geometry Dominate Extinction due to Habitat Loss?." *The Species-Area Relationship: Theory and Application* (2021) edited by T.J. Matthews, K.A. Triantis, R.J. Whittaker: 399-416.

2020

1. Charitonidou, M. and **Halley, J.M.** (2020) "What goes up must come down – why high fecundity orchids challenge conservation beliefs" *Biological Conservation* (Accepted for publication).
2. Antonelli, A., C. Fry, R. J. Smith, M. S. J. Simmonds, P. J. Kersey, H. W. Pritchard, M. S. Abbo *et al.* "State of the world's plants and fungi 2020".
3. Eimear Nic Lughadha, Steven P Bachman, Tarciso Leão, Felix Forest, **John M Halley**, Justin Moat, Carmen Acedo, Karen Bacon, Ryan F A Brewer, Gildas Gâteblé, Susana C Gonçalves, Rafaël Govaerts, Peter Hollingsworth, Irmgard Krisai-Greilhuber, Elton John de Lirio, Paloma G P Moore, Raquel Negrão, Jean-Michel Onana, Landy Rajaovelona, Henintsoa Razanajatovo, Peter Reich, Sophie L Richards, Malin C Rivers, Amanda Cooper, João Iganci, Gwilym P. Lewis, Eric Smidt, Alexandre Antonelli, Gregory M Mueller, Barnaby E Walker, "Extinction Risk and Threats to Plants and Fungi", *Plants, People, Planet* **2**, no. 5 (2020): 389-408.
4. Damialis, Athanasios, Athanasios Charalampopoulos, Maria Lazarina, Eleni Diamanti, Vasiliki Almpandou, Afroditi Maria Maraidoni, Aliko Symeonidou *et al.* "Plant flowering mirrored in airborne pollen seasons? Evidence from phenological observations in 14 woody taxa." *Atmospheric Environment* **240** (2020): 117708.
5. Zografou, Konstantina, Andrea Grill, Robert J. Wilson, **John M. Halley**, George C. Adamidis, and Vassiliki Kati. "Butterfly phenology in Mediterranean mountains using space-for-time substitution." *Ecology and evolution* **10**, no. 2 (2020): 928-939.
6. Marini Govigli, Valentino, John R. Healey, Jennifer LG Wong, Kalliopi Stara, Rigas Tsiakiris, and **John M. Halley**. "When nature meets the divine: effect of prohibition regimes on the structure and tree species composition of sacred forests in northern Greece." *Web Ecology* **20**, no. 2 (2020): 53-86.

2019

1. Tzirkalli, Elli, Costas Kadis, **John M. Halley**, Ioannis Vogiatzakis, Robert J. Wilson, Konstantina Zografou, Andreas Antoniou, Takis Tsintides, Christodoulos Makris, and Vassiliki Kati. "Conservation ecology of butterflies on Cyprus in the context of Natura 2000." *Biodiversity and Conservation* **28**, no. 7 (2019): 1759-1782..
2. Vokou, D.; Genitsaris, S.; Karamanoli, K.; Vareli, K.; Zachari, M.; Voggoli, D.; Monokrousos, N.; **Halley, J.M.**; Sainis, I. Metagenomic Characterization Reveals Pronounced Seasonality in the Diversity and Structure of the Phyllosphere Bacterial Community in a Mediterranean Ecosystem. *Microorganisms* **2019**, *7*, 518.
3. **Halley, John M.** Doubting Thomas and the Love of Invasive Species. [Book review] *Conservation Biology* (2019) **33**(6), 1451-1453.
4. Charitonidou, M., Stara, K., Kougioumoutzis, K., & **Halley, J. M.** (2019). Implications of salep collection for the conservation of the Elder-flowered orchid (*Dactylorhiza sambucina*) in Epirus, Greece. *Journal of Biological Research-Thessaloniki*, **26**(1), 18.

2018

1. Halley J.M., Van Houtan K.S., Mantua, N. (2018). How survival curves affect population vulnerability to climate change. *PLoS one* **13**, no. 9 (2018): e0203124.
2. Avtzis DN, Stara K, Sgardeli V, Betsis A, Diamandis S, Healey JR, Kapsalis E, Kati V, Korakis G, Marini Govigli V, Monokrousos N, Muggia L, Nitsiakos V, Papadatou E, Papaioannou H, Rohrer A, Tsiakiris R, van Houtan KS, Vokou D, Wong J, Halley, JM. (2018). Quantifying the conservation value of Sacred Natural Sites. *Biological Conservation* **222** (2018): 95-103..

3. Halley, John M. Redefining the Heart of Conservation. *Conservation Biology* 32, no. 2 (2018): 501-504.
4. Phillips, H.R., Halley, J.M., Urbina-Cordona, J.N. and Purvis, A., 2017. The effect of fragment area on site-level biodiversity. *Ecography* 41, no. 7 (2018): 1220-1231
5. Veresoglou, Stavros D., and John M. Halley. "Seed mass predicts migration lag of European trees." *Annals of Forest Science* 75, no. 3 (2018): 86.
6. Touka, Anastasia, Katerina Vareli, Maria Igglezou, Nikolaos Monokrousos, Dimitrios Alivertis, John M. Halley, Sotiris Hadjikakou, Stathis Frillingos, and Ioannis Sainis. "Ancient European Lakes: Reservoirs of Hidden Microbial Diversity? The Case of Lake Pamvotis (NW Greece)." *Open Journal of Ecology* 8 (2018): 537-578.

2017

1. Newmark WD, Jenkins CN, Pimm SL, McNeally PB, Halley JM. Targeted habitat restoration can reduce extinction rates in fragmented forests. *Proceedings of the National Academy of Sciences*. 2017 Sep 5;114(36):9635-40.
2. Halley, J.M., Monokrousos, N., Mazaris, A.D. and Vokou, D., 2017. Extinction debt in plant communities: where are we now? *Journal of Vegetation Science*, 28(3), pp.459-461.
3. Sgardeli V, Iwasa Y, Varvoglis H, Halley JM. A forecast for extinction debt in the presence of speciation. *Journal of theoretical biology*. 2017 Feb 21;415:48-52.
4. Zografou, K., Wilson, R.J., Halley, J.M., Tzirkalli, E. and Kati, V., 2017. How are arthropod communities structured and why are they so diverse? Answers from Mediterranean mountains using hierarchical additive partitioning. *Biodiversity and Conservation*, 26(6), pp.1333-1351.
5. Tzortzaki AE, Vokou D, Halley JM. *Campanula lingulata* populations on Mt. Olympus, Greece: where's the "abundant centre"? *Journal of Biological Research-Thessaloniki*. 2017 Jan 14;24(1):1.

2016

1. Halley JM, Monokrousos N, Mazaris AD, Newmark WD, Vokou D. Dynamics of extinction debt across five taxonomic groups. *Nature communications*. 2016 Jul 25;7.
2. Sgardeli V, Zografou K, Halley JM. Climate Change versus Ecological Drift: Assessing 13 years of turnover in a butterfly community. *Basic and Applied Ecology*. 2016 Jun 30;17(4):283-90.
3. Veresoglou SD, Rillig MC, Fraser LH, Halley JM. The influence of sampled biomass on species–area relationships of grassland plants. *New Phytologist*. 2016 Jul 1;211(2):382-5.
4. Halley, J. M. (2016), Preaching for the Planet or Just Spinning Our Wheels. *Conservation Biology*, 30: 1137–1140. doi:10.1111/cobi.12761
5. Stara, K., Tsiakiris, R., Nitsiakos, V., & Halley, J. M. (2016). Religion and the Management of the Commons. The Sacred Forests of Epirus. In *Biocultural Diversity in Europe* (pp. 283-302). Springer International Publishing.

2015

1. Veresoglou, S. D., Halley, J. M., & Rillig, M. C. (2015). Extinction risk of soil biota. *Nature Communications*, 6, 8862. Nov
2. Zografou K, Adamidis GC, Grill A, Kati V, Wilson RJ, Halley JM. Who flies first?—habitat-specific phenological shifts of butterflies and orthopterans in the light of climate change: a case study from the south-east Mediterranean. *Ecological entomology*. 2015 Oct 1;40(5):562-74.

3. Damialis A., Vokou D., Gioulekas D., Halley J.M. (2015). Long-term trends in airborne fungal-spore concentrations: a comparison with pollen. *Fungal Ecology* 13: 150-156.
4. Van Houtan K.S., Halley J.M., Marks W. (2015). Terrestrial basking sea turtles are responding to spatio-temporal sea surface temperature patterns. *Biology Letters* 11: 20140744.
5. Halley, J. (2015). So you want to stop devouring ecosystems? Do the math! Pages 151-162 in L. Kemmerer, editor. *Animals and the environment: advocacy, activism, and the quest for common ground*. Routledge, London. May (2014-15)
6. Damialis A, Mohammad AB, Halley JM, Gange AC. Fungi in a changing world: growth rates will be elevated, but spore production may decrease in future climates. *International journal of biometeorology*. 2015 Sep 1;59(9):1157-67.)
7. Van Houtan, K. S., Halley, J. M., & Marks, W. (2015). Terrestrial basking sea turtles are responding to spatio-temporal sea surface temperature patterns. *Biology letters*, 11(1), 20140744.
8. Zakkak, S., Halley, J. M., Akriotis, T., & Kati, V. (2015). Lizards along an agricultural land abandonment gradient in Pindos Mountains, Greece. *Amphibia-Reptilia*, 36(3), 253-264.

2014

1. Halley J.M., Sgardeli V., Triantis K.A. (2014) Extinction debt and the species–area relationship: a neutral perspective. *Global Ecology and Biogeography*, 23:113–123.
2. Sawidis T., Halley J.M., Llupo S., Bellos D., Veros D., Symeonidis L. (2014). Nickel and iron concentrations in plants from mining area Pogradec, Albania. *Environmental Engineering and Management Journal* 13: 861-871.
3. Xystrakis F., Kallimanis A.S., Dimopoulos P., Halley J.M., Koutsias N. (2014). Precipitation dominates fire occurrence in Greece (1900–2010): its dual role in fuel build-up and dryness. *Natural Hazards and Earth System Science* 14: 21-32.
4. Zakkak S., Kakalis E., Radović A., Halley J.M., Kati V. (2014). The impact of forest encroachment after agricultural land abandonment on passerine bird communities: The case of Greece. *Journal for Nature Conservation* 22: 157-165.
5. Zografou K., Kati V, Grill A., Wilson R.J., Tzirkalli E., Pamperis L., Halley J.M. (2014). Signals of Climate Change in Butterfly Communities in a Mediterranean Protected Area. *PLoS ONE* 9: e87245.

2013

1. Halley J.M., Iwasa Y., Vokou D. (2013). Extinction Debt and Windows of Conservation Opportunity in the Brazilian Amazon - Comment. *Science* 339: 271c.
2. Halley JM, Sgardeli V, Monokrousos N. (2013). Species-area relationships and extinction forecasts. *Annals of the New York Academy of Science* 1286: 50-61.
3. Zakkak, Sylvia, Maria Panagiotopoulou, and John J. Halley. "Estimating abundance patterns of seabirds in the north Aegean Sea." *Marine Ornithology* 41 (2013): 141-148.

2012

1. Lovei, G.L., Lewinsohn T.M., et al. (2012). Megadiverse developing countries face huge risks from invasives. *Trends in Ecology & Evolution* 27: 2–3.
2. Halley J.M., Iwasa Y. (2012). Neutrality without incoherence: a response to Clark. *Trends in Ecology & Evolution* 27: 363.

3. Koutsias N., Arianoutsou M., Kallimanis A.S., Mallinis G., Halley J.M., Dimopoulos P. (2012). Where did the fires burn in Peloponnisos, Greece the summer of 2007? Evidence for a synergy of fuel and weather. *Agricultural and Forest Meteorology* 156:41–53.
4. Veresoglou S.D., Halley J.M. (2012) A model that explains diversity patterns of arbuscular mycorrhizas. *Ecological Modelling* 231:146–152.
5. Vokou D., Vareli K., Zarali E., Karamanoli K., Constantinidou H.I.A., Halley J.M., Monokrousos N., Sainis I. (2012). Exploring biodiversity in the bacterial community of the Mediterranean phyllosphere and its relationship with airborne bacteria. *Microbial Ecology* 64: 714-724.

2011

1. Damialis A., Fotiou C., Halley J.M., Vokou D. (2011). Effects of environmental factors on pollen production in anemophilous woody species. *Trees-Structure and Function* 25: 253–264.
2. Fotiou C., Damialis A., Krigas N., Halley J.M., Vokou D. (2011). *Parietaria judaica* flowering phenology, pollen production, viability and atmospheric circulation, and expansive ability in the urban environment: impacts of environmental factors. *International Journal of Biometeorology* 55: 35–50.
3. Halley J.M., Iwasa Y. (2011). Neutral theory as a predictor of avifaunal extinctions after habitat loss. *Proceedings of the National Academy of Sciences of the United States of America* 108: 2316–2321.
4. Halley J.M., Kugiumtzis D. (2011). Nonparametric testing of variability and trend in some climatic records. *Climatic Change* 109:549–568.
5. Van Houtan K.S., Halley J.M. (2011). Long-Term climate forcing in loggerhead sea turtle nesting. *PLoS ONE* 6.

Pre-2011

48. V Kati, K Poirazidis, M Dufrêne, JM Halley, G Korakis, S Schindler, P Dimopoulos (2010), "Towards the use of ecological heterogeneity to design reserve networks: a case study from Dadia National Park, Greece", *Biodiversity and conservation* 19 (6), 1585-1597
47. KS Van Houtan, JM Halley, R Van Aarde, SL Pimm (2009), "Achieving success with small, translocated mammal populations", *Conservation Letters* 2 (6), 254-262
46. Halley J.M. (2009), "Using models with long-term persistence to interpret the rapid increase of Earth's temperature", *Physica A: Statistical Mechanics and its Applications* 388 (12), 2492-2502
45. AS Kallimanis, AD Mazaris, J Tzanopoulos, JM Halley, JD Pantis, SP Sgardelis (2008), "How Does Habitat Diversity Affect the Species-Area Relationship?", *Global Ecology and Biogeography* 17, 532-538
44. Kallimanis A.S., Halley J.M., Vokou D. & Sgardelis S.P. (2008) The Scale of Analysis Determines the Spatial Pattern of Woody Species Diversity in the Mediterranean Environment. *Plant Ecology* 196, 143-151
43. Van Houtan K.S., Pimm S.L., Halley J.M., Bierregaard R.O. & Lovejoy T.E. (2007) Dispersal of Amazonian Birds in Continuous and Fragmented Forest. *Ecology Letters* 10, 219-229
42. Damialis A., Halley J.M., Gioulekas D. & Vokou D. (2007) Long-Term Trends in Atmospheric Pollen Levels in the City of Thessaloniki, Greece. *Atmospheric Environment* 41, 7011-7021
41. Halley, J.M., "How sampling resolution and scale affect the perceived redness of a time-series" in Vasseur, D. A., and McCann, K. S. (eds.) *The impact of environmental variability on ecological systems.*

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40. A.S. Kallimanis, W.E. Kunin, J.M. Halley and S.P. Sgardelis, "Patchy disturbance favours longer dispersal distance" *Evolutionary Ecology Research*, 8, 529-541 (2006).
39. Halley, J.M., "Comparing aquatic and terrestrial variability: On what scale do ecologists communicate?", in "Bridging the Gap Between Aquatic and Terrestrial Ecology" Brownman, H.I & Stergiou, K.I. (Eds) Theme Section Marine Ecology Progress Series, 304, 274-280 (2005).
38. Halley, J. M. & Stergiou, K.I., "The implications of increasing variability of fish landings". *Fish and Fisheries*, 6, 266-276 (2005).
37. Matthiopoulos, J.M., Halley, J.M. and Moss, R., "The Social Hypothesis for Red Grouse Population Cycles Relies on Abrupt Transitions from Tolerant to Aggressive Behaviour". *Ecology* 86 (7): 1883-1893, 2005.
36. Kosmidis, K., Argyrakis, P. & Halley, J.M., Language evolution and population dynamics in a system of two interacting species. *Physica A*, 353, 595-612, 2005.
35. Kallimanis, A, Kunin, W. Halley, J., and Sgardelis, S. "Metapopulation extinction risk under spatially autocorrelated disturbance". *Conservation Biology*, 19, 1-13 (2), 2005.
34. Arntzen, J. W., Goudie, I., Halley, J. and Jehle, R. "Costs and benefits of marking techniques for long-term population studies". *Amphibia-Reptilia*, 25, 305-315, 2004.
33. Yadav, R. K. P., Halley, J. M., Karamanoli, K., Constantinidou, H.-I. & Vokou, D., "Bacterial populations on the leaves of Mediterranean plants: quantitative features and testing of distribution models". *Environmental and Experimental Botany*, 52, 63-77, 2004.
32. Halley, J. M., Hartley, S., Kallimanis, A.S., Kunin, W.E., Lennon, J.J., Sgardelis, S.P. (Review), "Uses and Abuses of Fractal Methodology in Ecology". *Ecology Letters*, 7, 254-271, 2004.
31. Halley, J.M. & Inchausti, P. "The Increasing Importance of 1/f-noises as Models of Ecological Variability" (Review), *Fluctuation and Noise Letters*, 4, R1-R26, 2004.
30. Inchausti, P. and J.M. Halley, "On the relation between temporal variability and persistence time in animal populations", *J. Animal Ecol.*, 72, 899-908, 2003.
29. Vokou, D., Douvli, P. and Halley, J.M., "Effects of monoterpenoids and of their combinations on seed germination and seedling growth", *J. Chem. Ecol.*, 29, 2281-2301, 2003.
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