Phillip P.A. Staniczenko   MPhys DPhil (Oxon)

Assistant Professor   City University of New York, Brooklyn College

pstaniczenko@brooklyn.cuny.edu

staniczenkoresearch.net

RESEARCH

I develop novel mathematical and computational methods for modelling the effects of anthropogenic change on species interactions and ecosystem services

EDUCATION
2007–2010

DPhil Doctorate in Condensed Matter Physics   University of Oxford
Department of Physics and Wolfson College
Thesis title: Structure, dynamics, and robustness of ecological networks
Examiners: Sir Professor Charles Godfray and Professor Roger Guimerà
Supervisors: Professor Felix Reed-Tsochas, Dr Nick S. Jones, Professor Neil F. Johnson
All conditions satisfied in 2011, degree awarded in 2013

2003–2007

MPhys Undergraduate Master of Physics   University of Oxford
First Class Honours, St. Anne's College

POSITIONS
2019–PRESENT

Assistant Professor Department of Biology   City University of New York (CUNY)
Brooklyn College and The Graduate Center, PhD Subprogram in Ecology, Evolutionary Biology, and Behavior (EEB); Affiliated Faculty at the Science and Resilience Institute at Jamaica Bay (since 2022)

2016–2018

Research Fellow Social-Ecological Networks   University of Maryland, College Park
National Socio-Environmental Synthesis Center, with Professor Margaret Palmer

2016

Postdoctoral Researcher Microbial invasion   University of Maryland, College Park
Department of Biology, with Professor Bill Fagan

2013–2015

Research Fellow Environmental Risk   University College London
Centre for Biodiversity and Environment Research, with Dame Professor Georgina Mace

2013

Consultant Scientist Urban Pollinators Project   University of Bristol
School of Biological Sciences, with Professor Jane Memmott

2011–2013

Postdoctoral Researcher Ecological Networks   University of Chicago
Department of Ecology & Evolution, with Professor Stefano Allesina

PUBLICATIONS
MENTORED
STUDENTS
‡LAB MEMBER
2023

23. **Staniczenko, P.P.A.** & Panja, D. (2023). Temporal origin of nestedness in interaction networks. PNAS Nexus, 2, pgad412

22. French, C.M., Bertola, L.D., Carnaval, A.C., Economo, E.P., Kass, J.M., Lohman, D.J., Marske, K.A., Meier, R., Overcast, I., Rominger, A.J., **Staniczenko, P.P.A.** & Hickerson, M.J. (2023). Global determinants of insect mitochondrial genetic diversity. Nature Communications, 14, 5276

21. Graham, N.R., Krehenwinkel, H., Lim, J.Y., **Staniczenko, P.P.A.**, Callaghan, J., Andersen, J.C., Gruner, D.S. & Gillespie, R.G. (2023). Ecological network structure in response to community assembly processes over evolutionary time. Molecular Ecology, 32, 6489–6506

20. Lue‡, C.-H., Abram, P.K., Hrcek, J., Buffington, M.L. & **Staniczenko, P.P.A.** (2023). Metabarcoding and applied ecology with hyper-diverse organisms: recommendations for biological control research. Molecular Ecology, 32, 6461–6473

2022

19. Fagan, W.F., Swain, A., Banerjee, A., Ranade, H., Thompson, P.R., **Staniczenko, P.P.A.**, Barrett, F., Hungerford, J. & Hurwitz, S. (2022). Quantifying interdependencies in geyser eruptions at the Upper Geyser Basin, Yellowstone National Park. Journal of Geophysical Research: Solid Earth, 127, e2021JB023749

2022   18. Zambrano, J., Arellano, G., Swenson, N.G., **Staniczenko, P.P.A.**, Thompson, J., & Fagan, W.F. (2022). Analyses of three-dimensional species associations reveal departures from neutrality in a tropical forest. Ecology, 103, e3681

2021   17. Lue‡, C.-H., Buffington, M.L., Scheffer, S., Lewis, M., Elliott, T.A., Lindsey, A.I.R., Driskell, A., Jandova, A., Kimura, M.T., Carton, Y., Kula, R.R., Schlenke, T.A., Mateos, M., Govind, S., Varaldi, J., Guerrieri, E., Giorgini, M., Wang, X., Hoelmer, K., Daane, K.M., Abram, P.K., Pardikes, N.A., Brown, J.J., Thierry, M., Poirié, M., Goldstein, P., Miller, S.E., Tracey, W.D., Davis, J.S., Jiggins, F.M., Wertheim, B., Lewis, O.T., Leips, J., **Staniczenko, P.P.A.** & Hrcek, J. (2021). DROP: Molecular voucher database for identification of *Drosophila* parasitoids. Molecular Ecology Resources, 21, 2437–2454

16. Guy*, T.J., Hutchinson*, M.C., Baldock, K.C.R., Kayser, E., Baiser, B., **Staniczenko, P.P.A.**, Goheen, J.R., Pringle, R.M. & Palmer, T.M. (2021). *Joint first authors. Large herbivores transform plant-pollinator networks in an African savanna. Current Biology, 31, 2964–2971

15. Losapio, G., Schöb, C., **Staniczenko, P.P.A.**, Carrara, F., Palamara, G.M., De Moraes, C.M., Mescher, M.C., Brooker, R.W., Butterfield, B.J., Callaway, R.M., Cavieres, L.A., Kikvidze, Z., Lortie, C.J., Michalet, R., Pugnaire, F.I. & Bascompte, J. (2021). Network motifs involving both competition and facilitation predict biodiversity in alpine plant communities. Proceedings of the National Academy of Sciences USA, 118, e2005759118

2020   14. Timm, C.M., Loomis, K., Stone, W., Mehoke, T., Brensinger, B., Pellicore, M., **Staniczenko, P.P.A.**, Charles, C., Nayak, S. & Karig, D. (2020). Isolation and characterization of diverse microbial representatives from the human skin microbiome. Microbiome, 8, 58

13. Thompson, P.R., Fagan, W.F. & **Staniczenko, P.P.A.** (2020). Predictor species: Improving assessments of rare species occurrence by modeling environmental co-responses. Ecology & Evolution, 10, 3293–3304

12. Alexander*, S.M., **Staniczenko*, P.P.A.** & Bodin, Ö. (2020). ***Joint first authors.** Social ties explain catch portfolios of small-scale fishers in the Caribbean. Fish & Fisheries, 21, 120–131

2019   11. Baldock, K.C.R., Goddard, M.A., Hicks, D.M., Kunin, W.E., Mitschunas, N., Morse, H., Osgathorpe, L.M., Potts, S.G., Robertson, K.M., Scott, A.V., **Staniczenko, P.P.A.**, Stone, G.N., Vaughan, I.P. & Memmott, J. (2019). A systems approach reveals urban pollinator hotspots and conservation opportunities. Nature Ecology & Evolution, 3, 363–373

2018   10. **Staniczenko, P.P.A.**, Suttle, K.B. & Pearson, R.G. (2018). Negative biotic interactions drive predictions of distributions for species from a grassland community. Biology Letters, 14, 20180426

2017   9. **Staniczenko, P.P.A.**, Lewis, O.T., Tylianakis, J.M., Albrecht, M., Coudrain, V., Klein, A.-M. & Reed-Tsochas, F. Predicting the effect of habitat modification on networks of interacting species. (2017). Nature Communications, 8, 792

8. **Staniczenko, P.P.A.**, Sivasubramaniam, P., Suttle, K.B. & Pearson, R.G. (2017). Linking macroecology and community ecology: Refining predictions of species distributions using biotic interaction networks. Ecology Letters, 20, 693–707

7. Bewick*, S., **Staniczenko*, P.P.A.**, Li, B., Karig, D. & Fagan, W.F. (2017). ***Joint first authors.** Invasion speeds in microbial systems with toxin production and quorum sensing. Journal of Theoretical Biology, 420, 290–303

2016   6. Caravelli‡,*, F. & **Staniczenko*, P.P.A.** (2016). ***Joint first authors.** Bounds on transient instability for complex ecosystems. PLOS ONE, 11, e0157876

2014	5. **Staniczenko, P.P.A.**, <u>Smith, M.J.</u> & Allesina, S. (2014). Selecting food web models using normalized maximum likelihood. Methods in Ecology & Evolution, 5, 551–562
2013	4. **Staniczenko, P.P.A.**, <u>Kopp, J.C.</u> & Allesina, S. (2013). The ghost of nestedness in ecological networks. Nature Communications, 4, 1931
2012	3. De Sassi, C., **Staniczenko, P.P.A.** & Tylianakis, J.M. (2012). Warming and nitrogen affect size structuring and density dependence in a host-parasitoid food web. Philosophical Transactions of the Royal Society B, 367, 3033–3041
2010	2. **Staniczenko, P.P.A.**, Lewis, O.T., Jones, N.S. & Reed-Tsochas, F. (2010). Structural dynamics and robustness of food webs. Ecology Letters, 13, 891–899
2009	1. **Staniczenko, P.P.A.**, Lee, C.-F. & Jones, N.S. (2009). Rapidly detecting disorder in rhythmic biological signals: A spectral entropy measure to identify cardiac arrhythmias. Physical Review E, 79:011915

GRANTS

2024	**Hudson River Park CUNY Visiting Scholars Award**	PI, $10k
	Wave exposure at Gansevoort Peninsula and implications for the restoration success of the eastern oyster (*Crassostrea virginica*)	
	PSC-CUNY Research Award Cycle 55	PI, $6k
	Measuring the effects of wind-driven waves on wetland erosion and the implications for smooth cordgrass (*Spartina alterniflora*) restoration in Jamaica Bay, NYC	
	Tow Research and Creativity Grant	PI, $2,600
	Phenology and the local stability of plant-pollinator interaction networks	
2018	**Santa Fe Institute Working Group**	PI, $20k
	Next-generation ecological network theory and application	
2016–2018	**National Socio-Environmental Synthesis Center Fellowship**	PI, $215k
	Predicting the effect of socioeconomic and environmental change on the structure of biotic interactions and the provision of ecosystem services (International Competition)	
2014–2015	**British Ecological Society Large Grant**	PI, £20k
	How do food webs respond to bottom-up changes driven by habitat modification?	
2013–2015	**AXA Postdoctoral Fellowship**	PI, €120k
	How accurately can we predict species extinction and reintroduction? Embracing ecological complexity to assess risk in ecosystems (International Competition)	
2007–2010	**Doctoral Fellowship** Awarded by the Helsinki University of Technology	PI, $80k
	Computational Complex Systems and Networks Research (International Competition)	

AWARDS

2023	**Tow Mentoring** award for undergraduate mentorship at Brooklyn College
	Excellence in Scholarly and Creative Achievement at Brooklyn College
2022	**Tow Mentoring** award for undergraduate mentorship at Brooklyn College
	CUNY STEM Pedagogy Institute Fellowship award to develop innovative approaches to teaching computational methods, $5k
2021	**Roberta S. Matthews Center for Teaching and Learning Course Development Fellowship** award to develop more inclusive undergraduate courses, $2k
	Faculty Fellowship Publication Program (FFPP) award, $4k
	Certificate in Effective Online Teaching Practices from the Association of College and University Educators (ACUE)
2014	**Top Referee in 2014** Proceedings of the Royal Society B
2010	**David Ryan Prize** for distinguished work by a graduate student in Physics
2007	**Data Connection Prize** for the best use of software in an MPhys Thesis
2006	**Clayman Scholarship** to work in quantitative finance in NYC, $10k

SUPERVISION 2024-PRESENT	**PhD committee** Sulaimon Lawal Ecology, Evolutionary Biology, and Behavior	Queens College, CUNY
2023-PRESENT	**PhD supervisor** James Herlan Ecology, Evolutionary Biology, and Behavior	City College, CUNY
	Undergraduate project mentor Alex Colasanti Staniczenko lab	Brooklyn College, CUNY
	PhD committee Rhema Uche-Dike Richard Gilder Graduate School	American Museum of Natural History
2022	**Undergraduate project mentor** Torie Robinson Staniczenko lab	Brooklyn College, CUNY
2021	**Undergraduate project mentor** Mitchell Borshch Brooklyn College Cancer Center	Brooklyn College, CUNY
2021-2024	**PhD committee** Andriele Silva Biochemistry	Brooklyn College, CUNY
2020–PRESENT	**PhD committee** Laura Boggess Plant Sciences	New York Botanical Garden
	PhD committee Connor French Ecology, Evolutionary Biology, and Behavior	City College, CUNY
	PhD co-supervisor Grégoire Proudhom Department of Entomology	Czech Academy of Sciences
2020–2023	**PhD committee** Erica Johnson Ecology, Evolutionary Biology, and Behavior	City College, CUNY
	PhD committee Aislyn Keyes Ecology and Evolutionary Biology	University of Boulder Colorado
2020–2022	**Postdoctoral research mentor** Chia-Hua Lue Staniczenko lab	Brooklyn College, CUNY
2020	**Undergraduate project mentor** Chrismal Abraham Department of Computer and Information Sciences	Brooklyn College, CUNY
2019–2022	**PhD committee** Jennifer Zhu Ecology, Evolutionary Biology, and Behavior	Baruch College, CUNY
2019	**NSF Summer REU mentor** Quiana Berry Brooklyn Urban Ecology and Environment (BUEE) Program	Brooklyn College, CUNY
2019–2023	**PhD committee** Gonzalo Enrique Pinilla Buitrago Ecology, Evolutionary Biology, and Behavior	City College, CUNY
2018–2022	**PhD committee** Humberto Castillo Gonzalez Department of Plant Sciences and Landscape Architecture	University of Maryland, CP
2018	**Undergraduate project mentor** Peter Thompson Department of Statistics	University of Maryland, CP
2017	**Undergraduate project mentor** Samantha Berman Department of Biology	University of Maryland, CP
2015	**Undergraduate research intern** Elise Damstra Staniczenko lab	University College London
	PhD project mentor Teresa Attenborough Interdisciplinary Life Sciences	University College London
2014–2015	**PhD project mentor** Andrew Maher Interdisciplinary Life Sciences	University College London
2014	**Postdoctoral research mentor** Francesco Caravelli Staniczenko lab	University College London

2013–2014	**Master's project mentor** Sameen Khan	University College London
	Department of Mathematics	

TEACHING 2020–PRESENT	**Organizer** BIOL7910G: Biology Colloquium	Brooklyn College, CUNY
	Arrange seminar series and mark student summaries of talks	14 weeks
	Lecturer BIOL3030W: Scientific Writing	Brooklyn College, CUNY
	Communicating science to decision-makers and the public (originated course) 14 weeks	
	Lecturer BIOL3083: Principles of Ecology	Brooklyn College, CUNY
	Fundamental Topics in Ecology (originated course)	14 weeks
2019–PRESENT	**Lecturer** BIOL76001: Ecology	Graduate Center, CUNY
	Fundamental and Contemporary Topics in Ecology (originated course)	14 weeks
	Lecturer BICM87001: Bioinformatics with practicum	Graduate Center, CUNY
	Scientific Computing for Biologists (4 weeks, originated course)	14 weeks
2019–2020	**Lecturer** NSF Advanced Training Course	SESYNC
	Introduction to Social and Ecological Networks Analysis	5 full days
2019	**Lecturer** NSF Summer REU	Brooklyn College, CUNY
	Statistics and Scientific Computing (originated course)	2 half days
2014	**Lecturer** NERC Advanced Training Short Course	University College London
	Introduction to Ecological Modelling, Graduate level	2 full days
	Lecturer Workshop on Networks in Ecology	Umeå University, Sweden
	Beyond nestedness in ecological networks, Undergraduate level	2 full days
2008–2010	**Lecturer** MSc Integrative Biosciences	University of Oxford
	Quantitative Methods in Biology, Graduate level	2 full days
2008–2009	**Demonstrator** MPhys Physics	University of Oxford
	Introduction to C programming, Undergraduate level	4 weeks

ACADEMIC **SERVICE** 2023	**Subject-Matter Editor** Editorial Board, Ecological Monographs
	Reviewer for Ecological Society of America Annual Meeting Session Proposals
	Chair (Elected) Theoretical Ecology Section, Ecological Society of America
2022–PRESENT	**Vice-chair** (Elected) Theoretical Ecology Section, Ecological Society of America
2021	**Guest Associate Editor** PLOS Computational Biology
2020–PRESENT	**Panelist for NSF (USA)** Grant proposal review, Division of Environmental Biology
2018–PRESENT	**Recommender/Journal Editor** Peer Community in Ecology
2018	**Executive Board** Inclusive Ecology Section, Ecological Society of America
2014–PRESENT	**Reviewer for NSERC (Canada)** Strategic Projects Program
	Reviewer for NSF (USA) Standard Grant and CAREER Grant
	Reviewer for NERC (UK) Standard Grant and New Investigator Scheme
2010–PRESENT	**Reviewer for over 100 manuscripts across 45 peer-reviewed journals**

Nature Communications, Nature Ecology & Evolution, Nature Scientific Reports, Science Advances, PLOS Biology, PLOS Computational Biology, PLOS ONE, Proceedings of the Royal Society A, Proceedings of the Royal Society B, Biology Letters, Ecology Letters, Ecology, Ecology & Evolution, Frontiers in Ecology and Evolution, Frontiers in Plant Science, Methods in Ecology & Evolution, Theoretical Ecology, Ecological Modelling, Basic & Applied Ecology, Journal of Applied Ecology, Journal of Animal Ecology, Journal of Natural History, Molecular Ecology, Landscape & Urban Planning, Oikos, Global Change Biology, Ecography, Journal of Biogeography, Global Ecology & Biogeography, Diversity & Distributions, Biological Conservation, Current Biology,

Journal of Theoretical Biology, Theory in Biosciences, Diversity, Complexity, PeerJ, Microbiome, Computer Methods and Programs in Biomedicine, Physical Review Letters, Physical Review Research, Physical Review E, Physical Review X, PRX Life, Journal of the Royal Society Interface

INSTITUTIONAL SERVICE	**Biology Program Nominations Committee**	Graduate Center, CUNY
	EEB Steering Committee	Graduate Center, CUNY
2019–2023	**Chair, Committee on Review of Student Records**	Brooklyn College, CUNY
	University Faculty Council	Brooklyn College, CUNY
2019–2020	**University Faculty Senate**	CUNY
2019	**NSF Summer REU Selection Committee**	Brooklyn College, CUNY
2018–2022	**Special Member of the Graduate Faculty** Department of Plant Science and Landscape Architecture	University of Maryland, CP
2017–2019	**Equity, Diversity & Inclusion Committee** Representative for faculty (Elected)	University of Maryland, CP
	Mentoring Sub-Committee Chair Designed a new Individual Development Plan for postdoctoral researchers	University of Maryland, CP
	University Senate Representative for postdoctoral researchers (Elected twice)	University of Maryland, CP
2004–2005	**Physics Joint Consultative Committee** Undergraduate representative (Elected)	University of Oxford

OUTREACH	**Educational Video** National Socio-Environmental Synthesis Center Writer, producer, and presenter of "Introduction to Ecological Networks"	Winter 2020
	Panelist Postdoctoral Research Symposium, MD Session on Transitioning to a Faculty Position	13 Sept 2019
	Panel Moderator Postdoctoral Research Symposium, MD Session on Transitioning to a Faculty Position	17 Sept 2018
	Planning Committee Graduate Career Pathways Conference, MD Organised session on environmental policy, NGOs, and conservation	20 April 2018
	Judge Graduate Research Appreciation Day, University of Maryland	4 April 2018
	Judge Graduate Research Appreciation Day, University of Maryland	5 April 2017
	Exhibition Curator Transforming Space, Denys Wilkinson Building	7–9 May 2009
	Workshop Organiser Process in Physics and Art, Oxford	12 Feb 2009
	Highschool Mentor Maths, ages 10–12, Cherwell School, Oxford	2008

TALKS *INVITED 2023	36. *Ecological networks—Mapping the tangled bank. MasterClass, three two-hour lectures and two two-hour computing practicals, 5–7 June 2023, Centre for Complex Systems Studies, Utrecht University, Netherlands.
2022	35. *Integrating Empirical and Theoretical Approaches in Mutualistic Networks. Session moderator. Ecological Society of American Annual Meeting, 18 Aug 2022, Montreal, Canada
	34. *Predictive community ecology: putting networks to work. Departmental Seminar, 23 March 2022, Department of Biology, Queens College, City University of New York, NY
2021	33. *Decolonizing a traditional lecture-based course in ecology—my in-progress attempt. Seminar, 7 Oct 2021, Center for Teaching and Learning, Brooklyn College, City University of New York, NY

2020	32. *Predictive community ecology: putting networks to work. Departmental Seminar, 5 Feb 2020, Department of Ecology & Evolution, Stony Brook University, NY
2019	31. Reckless Ideas in Ecological Networks. Symposium Organiser and Speaker, 9–10 May 2019, The Center for the Study of Complex Systems, University of Michigan, MI
	30. *Predictive community ecology: putting networks to work. Departmental Seminar, 11 March 2019, Department of Biology, City College, City University of New York, NY
	29. *Predictive community ecology: putting networks to work. Session on Ecology, Evolutionary Biology, and Behavior, 14 Feb 2019, American Museum of Natural History, NY
2018	28. Modelling interaction frequencies and preferences in Drosophila-parasitoid communities using networks. Entomological Society of America Annual Meeting, 14 Nov 2018, Vancouver, Canada
	27. Predicting the effect of habitat modification on networks of interacting species. Ecological Society of America Annual Meeting, 8 Aug 2018, New Orleans, LA
	26. *Predicting shifts in insect feeding interactions following deforestation. Departmental Seminar, 2 March 2018, Department of Entomology, University of Maryland, College Park, MD
2017	25. Multilayer conjugation networks. Presentation to United States Department of Defence, 21 Nov 2017, The Johns Hopkins Applied Physics Laboratory, Laurel, MD
	24. *Predictive community ecology: putting networks to work. Departmental Seminar, 9 Nov 2017, Center for Conservation Biology, Stanford University, CA
	23. *Networks and ecology. Departmental Seminar, 1 Sept 2017, Computation and Mathematics for Biological Networks Program, University of Maryland, College Park, MD
	22. *Refining predictions of species distributions using biotic interaction networks. Workshop, Novel Methods for Modelling Complex Dynamic Ecological Systems, 21 Aug 2017, Centre for Biodiversity and Conservation Science, University of Queensland, Australia
	21. *Revealing the Causes and Consequences of Interaction Complexity using Gradient-Based Ecological Networks. Session moderator. Ecological Society of America Annual Meeting, 10 Aug 2017, Portland, OR
	20. Refining predictions of species distributions using biotic interaction networks. Ecological Society of America Annual Meeting, 7 Aug 2017, Portland, OR
2016	19. *Predicting weighted ecological networks in human-modified habitats. Departmental Seminar, 11 Nov 2016, Department of Biological Sciences, University of Maryland Baltimore County, MD
	18. Invasion speeds in microbial systems. Presentation to United States Department of Defence, 1 Nov 2016, The Johns Hopkins Applied Physics Laboratory, Laurel, MD
2015	17. *How will social and environmental change impact ecological communities and ecosystem services? Departmental Seminar, 18 Nov 2015, National Socio-Environmental Synthesis Center, Annapolis, MD
	16. *Predicting weighted ecological networks in human-modified habitats. Departmental Seminar, 20 Oct 2015, CABDyN Complexity Centre, Saïd Business School, University of Oxford, UK
	15. Bounds on transient instability for complex ecosystems. Data Natives Meeting 2015, 15 May 2015, City University London, UK
	14. *Predicting weighted ecological networks in modified environments. Departmental Seminar, 27 March 2015, London Institute of Mathematical Sciences, UK

2015	13. *Reallocation of trophic interactions and the predictability of parasitoid-host food web structure in modified habitats. Departmental Seminar, 5 March 2015, School of Biological Sciences, University of Canterbury, Christchurch, New Zealand
2014	12. *Food webs and bipartite networks. Workshop on Grand Challenges in Ecosystems and the Environment: Networks in Ecology and Evolution, 14 July 2014, Silwood Park, Imperial College London, UK
	11. *Ecosystem services and the limits of our predictive capability. AXA Pop Day, 21 June 2014, AXA Headquarters, Paris, France
	10. *Beyond nestedness: Using directed acyclic graphs to model bipartite matrices and networks. Workshop on Networks in Ecology, 20 May 2014, Umeå University, Sweden
	9. Robustness of plant-pollinator communities in four UK cities. Meeting on Urban Pollination, 28 April 2014, Department of Biological Sciences, University of Bristol, UK
	8. Ecological networks: There's method in the madness. Departmental Seminar, 3 Feb 2014, Centre for Biodiversity and Environment Research, University College London, UK
2013	7. *The ghost of nestedness in ecological networks. Complexity Seminar Series, 5 Nov 2013, Keble College, University of Oxford, UK
	6. *Modelling and measuring progress in complex systems using directed acyclic graphs. Departmental Seminar, 24 Oct 2013, Institute for New Economic Thinking, University of Oxford, UK
	5. *The ghost of nestedness in ecological networks. Departmental Seminar, 25 Feb 2013, Department of Genetics, Evolution and Environment, University College London, UK
2011	4. A Bayesian framework for predicting quantitative food-web structure using species traits. Ecological Society of America Annual Meeting, 10 Aug 2011, Austin, TX
2010	3. Structural dynamics and robustness of food webs. British Ecological Society Annual Meeting 2010, 7 Sept 2010, Leeds, UK
2009	2. Local trophic adaptation requires a new approach to ecosystem robustness. NetSci '09 International Conference on Networks, 2 July 2009, Venice, Italy
	1. An entropy-based algorithm to rapidly detect cardiac arrhythmias. Poster presentation. Houses of Parliament, 9 March 2009, London, UK

VISITS 2017	Professor Berry Brosi Predicting plant-pollinator networks	Stanford University
2015	Professor Jason Tylianakis Predicting host-parasitoid networks	University of Canterbury, New Zealand
2009	Professor Brian Uzzi Robustness of ecological networks	Northwestern Institute on Complex Systems
	Professor Jennifer Dunne Food webs with trophic adaptation	Santa Fe Institute
2004	Professor Robert Jahn Financial market models	Princeton University

INDUSTRY 2007	**23red** Brand Communications Agency	London, UK
	Consultant on a public sector advertising project	One week
	Nomura Investment Bank Global Markets	London, UK
	Consultant in convertible bonds sales and research	Three months
2006	**New Amsterdam Partners** Asset Management	New York City, USA
	Intern in quantitative research and portfolio management	Three months
2005	**JP Morgan Investment Bank** Global Markets	London, UK
	Intern in equity research, semiconductor and oil & gas industries	Three months