

- 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 inter-  
action 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: recommen-  
dations 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 interdependen-  
cies 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<sup>‡</sup>, 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.** & Hreck, 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<sup>‡</sup>\*, F. & **Staniczenko\***, P.P.A. (2016). \*Joint first authors. Bounds on transient instability for complex ecosystems. *PLOS ONE*, 11, e0157876

2014	5. <b>Staniczenko, P.P.A.</b> , Smith, M.J. & Allesina, S. (2014). Selecting food web models using normalized maximum likelihood. <i>Methods in Ecology &amp; Evolution</i> , 5, 551–562	
2013	4. <b>Staniczenko, P.P.A.</b> , Kopp, J.C. & Allesina, S. (2013). The ghost of nestedness in ecological networks. <i>Nature Communications</i> , 4, 1931	
2012	3. De Sassi, C., <b>Staniczenko, P.P.A.</b> & Tylianakis, J.M. (2012). Warming and nitrogen affect size structuring and density dependence in a host-parasitoid food web. <i>Philosophical Transactions of the Royal Society B</i> , 367, 3033–3041	
2010	2. <b>Staniczenko, P.P.A.</b> , Lewis, O.T., Jones, N.S. & Reed-Tsochas, F. (2010). Structural dynamics and robustness of food webs. <i>Ecology Letters</i> , 13, 891–899	
2009	1. <b>Staniczenko, P.P.A.</b> , Lee, C.-F. & Jones, N.S. (2009). Rapidly detecting disorder in rhythmic biological signals: A spectral entropy measure to identify cardiac arrhythmias. <i>Physical Review E</i> , 79:011915	
<b>GRANTS</b>	<b>Hudson River Park CUNY Visiting Scholars Award</b>	PI, \$10k
2024	Wave exposure at Gansevoort Peninsula and implications for the restoration success of the eastern oyster ( <i>Crassostrea virginica</i> )	
	<b>PSC-CUNY Research Award Cycle 55</b>	PI, \$6k
	Measuring the effects of wind-driven waves on wetland erosion and the implications for smooth cordgrass ( <i>Spartina alterniflora</i> ) restoration in Jamaica Bay, NYC	
	<b>Tow Research and Creativity Grant</b>	PI, \$2,600
	Phenology and the local stability of plant-pollinator interaction networks	
2018	<b>Santa Fe Institute Working Group</b>	PI, \$20k
	Next-generation ecological network theory and application	
2016–2018	<b>National Socio-Environmental Synthesis Center Fellowship</b>	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	<b>British Ecological Society Large Grant</b>	PI, £20k
	How do food webs respond to bottom-up changes driven by habitat modification?	
2013–2015	<b>AXA Postdoctoral Fellowship</b>	PI, €120k
	How accurately can we predict species extinction and reintroduction? Embracing ecological complexity to assess risk in ecosystems (International Competition)	
2007–2010	<b>Doctoral Fellowship</b> Awarded by the Helsinki University of Technology	PI, \$80k
	Computational Complex Systems and Networks Research (International Competition)	
<b>AWARDS</b>	<b>Excellence in Scholarly and Creative Achievement</b> at Brooklyn College	
2023	<b>Tow Mentoring</b> award to mentor undergraduate students at Brooklyn College, \$1k	
2022	<b>CUNY STEM Pedagogy Institute Fellowship</b> award to develop innovative approaches to teaching computational methods, \$5k	
2021	<b>Roberta S. Matthews Center for Teaching and Learning Course Development Fellowship</b> award to develop more inclusive undergraduate courses, \$2k	
	<b>Faculty Fellowship Publication Program (FFPP)</b> award to design and execute scholarly publications, \$4k	
	<b>Certificate in Effective Online Teaching Practices</b> from the Association of College and University Educators (ACUE)	
2014	<b>Top Referee in 2014</b> Proceedings of the Royal Society B	
2010	<b>David Ryan Prize</b> for distinguished work by a graduate student in Physics	
2007	<b>Data Connection Prize</b> for the best use of software in an MPhys Thesis	
2006	<b>Clayman Scholarship</b> to work in quantitative finance in NYC, \$10k	

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

2013–2014	<b>Master’s project mentor</b> Sameen Khan Department of Mathematics	University College London
<b>TEACHING</b>	<b>Organizer</b> BIOL7910G: Biology Colloquium	Brooklyn College, CUNY
2020–PRESENT	Arrange seminar series and mark student summaries of talks	14 weeks
	<b>Lecturer</b> BIOL3030W: Scientific Writing	Brooklyn College, CUNY
	Communicating science to decision-makers and the public (originated course)	14 weeks
	<b>Lecturer</b> BIOL3083: Principles of Ecology	Brooklyn College, CUNY
	Fundamental Topics in Ecology (originated course)	14 weeks
2019–PRESENT	<b>Lecturer</b> BIOL76001: Ecology	Graduate Center, CUNY
	Fundamental and Contemporary Topics in Ecology (originated course)	14 weeks
	<b>Lecturer</b> BICM87001: Bioinformatics with practicum	Graduate Center, CUNY
	Scientific Computing for Biologists (4 weeks, originated course)	14 weeks
2019–2020	<b>Lecturer</b> NSF Advanced Training Course	SESYNC
	Introduction to Social and Ecological Networks Analysis	5 full days
2019	<b>Lecturer</b> NSF Summer REU	Brooklyn College, CUNY
	Statistics and Scientific Computing (originated course)	2 half days
2014	<b>Lecturer</b> NERC Advanced Training Short Course	University College London
	Introduction to Ecological Modelling, Graduate level	2 full days
	<b>Lecturer</b> Workshop on Networks in Ecology	Umeå University, Sweden
	Beyond nestedness in ecological networks, Undergraduate level	2 full days
2008–2010	<b>Lecturer</b> MSc Integrative Biosciences	University of Oxford
	Quantitative Methods in Biology, Graduate level	2 full days
2008–2009	<b>Demonstrator</b> MPhys Physics	University of Oxford
	Introduction to C programming, Undergraduate level	4 weeks
<b>ACADEMIC SERVICE</b>	<b>Subject-Matter Editor</b> Editorial Board, Ecological Monographs	
2023	<b>Reviewer for Ecological Society of America</b> Annual Meeting Session Proposals	
	<b>Chair</b> (Elected) Theoretical Ecology Section, Ecological Society of America	
2022–PRESENT	<b>Vice-chair</b> (Elected) Theoretical Ecology Section, Ecological Society of America	
2021	<b>Guest Associate Editor</b> PLOS Computational Biology	
2020–PRESENT	<b>Panelist for NSF (USA)</b> Grant proposal review, Division of Environmental Biology	
2018–PRESENT	<b>Recommender/Journal Editor</b> Peer Community in Ecology	
2018	<b>Executive Board</b> Inclusive Ecology Section, Ecological Society of America	
2014–PRESENT	<b>Reviewer for NSERC (Canada)</b> Strategic Projects Program	
	<b>Reviewer for NSF (USA)</b> Standard Grant and CAREER Grant	
	<b>Reviewer for NERC (UK)</b> Standard Grant and New Investigator Scheme	
2010–PRESENT	<b>Reviewer for over 100 manuscripts across 44 peer-reviewed journals</b> 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 X, Physical Review E, Physical Review Research, Journal of the Royal Society Interface

<b>INSTITUTIONAL SERVICE</b>	<b>Biology Program Nominations Committee</b>	Graduate Center, CUNY
	<b>EEB Steering Committee</b>	Graduate Center, CUNY
	2019–2023 <b>Chair, Committee on Review of Student Records</b>	Brooklyn College, CUNY
	<b>University Faculty Council</b>	Brooklyn College, CUNY
	2019–2020 <b>University Faculty Senate</b>	CUNY
	2019 <b>NSF Summer REU Selection Committee</b>	Brooklyn College, CUNY
	2018–2022 <b>Special Member of the Graduate Faculty</b>	University of Maryland, CP
	Department of Plant Science and Landscape Architecture	
	2017–2019 <b>Equity, Diversity &amp; Inclusion Committee</b>	University of Maryland, CP
	Representative for faculty (Elected)	
	<b>Mentoring Sub-Committee Chair</b>	University of Maryland, CP
	Designed a new Individual Development Plan for postdoctoral researchers	
	<b>University Senate</b>	University of Maryland, CP
	Representative for postdoctoral researchers (Elected twice)	
2004–2005	<b>Physics Joint Consultative Committee</b>	University of Oxford
	Undergraduate representative (Elected)	
<b>OUTREACH</b>	<b>Educational Video</b> National Socio-Environmental Synthesis Center	Winter 2020
	Writer, producer, and presenter of <a href="#">“Introduction to Ecological Networks”</a>	
	<b>Panelist</b> Postdoctoral Research Symposium, MD	13 Sept 2019
	Session on Transitioning to a Faculty Position	
	<b>Panel Moderator</b> Postdoctoral Research Symposium, MD	17 Sept 2018
	Session on Transitioning to a Faculty Position	
	<b>Planning Committee</b> Graduate Career Pathways Conference, MD	20 April 2018
	Organised session on environmental policy, NGOs, and conservation	
<b>Judge</b> Graduate Research Appreciation Day, University of Maryland	4 April 2018	
<b>Judge</b> Graduate Research Appreciation Day, University of Maryland	5 April 2017	
<b>Exhibition Curator</b> Transforming Space, Denys Wilkinson Building	7–9 May 2009	
<b>Workshop Organiser</b> Process in Physics and Art, Oxford	12 Feb 2009	
<b>Highschool Mentor</b> Maths, ages 10–12, Cherwell School, Oxford	2008	
<b>TALKS</b>	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.	
	*INVITED	
	2023	
	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

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



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