

RESEARCH	I develop novel mathematical and computational methods for modelling the effects of anthropogenic change on species interactions and ecosystem services	
EDUCATION	DPhil Doctorate in Condensed Matter Physics	University of Oxford
2007–2010	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	Deputy Executive Officer	Biology PhD Program CUNY Graduate Center
2026–PRESENT	Associate Professor	Brooklyn College City University of New York (CUNY) Department of Biology
2024–PRESENT	Research Associate	American Museum of Natural History Division of Invertebrate Zoology
2022–PRESENT	Research Faculty	Science and Resilience Institute at Jamaica Bay
2019–PRESENT	Research Faculty	CUNY Graduate Center PhD Subprogram in Ecology, Evolutionary Biology, and Behavior (EEB)
2019–2026	Assistant Professor	Brooklyn College City University of New York (CUNY) Department of Biology
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	26. Romeijnders, M., van Boven, M., Corman, F., Modes, C.D., Staniczenko, P.P.A. & Panja, D. (2026). Event-based spatiotemporal networks for modelling emergent phenomena in complex systems. Nature Communications , 17, 7007	
<u>MENTORED</u>		
<u>STUDENTS</u>		
[‡] LAB MEMBER		
2025	25. Jarzyna*, M.A., Ohyama*, L., Economo, E.P., Gill, J., Hickerson, M.J., Mascarenhas, R., Okie, J.G., Qin, C., Rabosky, D.L., Staniczenko, P.P.A. & McGill, B.J. (2025). *Joint first authors. Emergence and dynamics of regional species pools. Global Ecology and Biogeography , 34, e70046	
2024	24. Anderson, C.R., Curtsdotter, A.R.K., Staniczenko, P.P.A. , Valdovinos, F.S. & Brosi, B.J. (2024). The interplay of binary and quantitative structure on the stability of mutualistic networks. Integrative and Comparative Biology , 64, 827–840	
2023	23. Staniczenko, P.P.A. & Panja, D. (2023). Temporal origin of nestedness in interaction networks. PNAS Nexus , 2, pgad412	

- 2023 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
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.**, Smith, M.J. & Allesina, S. (2014). Selecting food web models using normalized maximum likelihood. [Methods in Ecology & Evolution](#), 5, 551–562
- 2013 4. **Staniczenko, P.P.A.**, Kopp, J.C. & 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	Hudson River Park x Research in the Classroom Grant	PI, \$20k
2025–2026	Microplastics, microbes, and water waves: Nanopore sequencing and urban environmental sensors for place-based applied ecological research	
2025–2027	National Parks Service Grant	co-PI, \$69k
	Horseshoe Cove Marsh Loss Investigation	
2024–2025	Hudson River Park CUNY Visiting Scholars Award	PI, \$10k
	Wave exposure at Gansevoort Peninsula and implications for the restoration success of the eastern oyster (<i>Crassostrea virginica</i>)	
	PSC-CUNY Research Award Cycle 55	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	
	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	Tow Mentoring award for undergraduate mentorship at Brooklyn College	
2023	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	
2004–2007	Scholar highest undergraduate academic honour, St. Anne's College	

SUPERVISION	PhD supervisor Julia Amoroso	CUNY Graduate Center
2026-PRESENT	Ecology, Evolutionary Biology, and Behavior (NSF GRFP awardee)	
	Undergraduate project mentor Elijah Harris	Brooklyn College, CUNY
	Staniczenko lab	
2025-PRESENT	PhD committee Emily Leggat	Columbia University
	Department of Ecology, Evolution, and Environmental Biology	
2024–2026	PhD committee Mwihaki John	New York Botanical Garden
	Plant Sciences	
2024-PRESENT	PhD committee Jeremy Howland	New York Botanical Garden
	Plant Sciences	
	PhD committee Andrew Gaier	City College, CUNY
	Ecology, Evolutionary Biology, and Behavior	
	PhD committee Taylor Rubin	Queens College, CUNY
	Ecology, Evolutionary Biology, and Behavior	
	PhD committee Sulaimon Lawal	Queens College, CUNY
	Ecology, Evolutionary Biology, and Behavior	
2024	Undergraduate project mentor Ariella Weiner	Brooklyn College, CUNY
	Staniczenko lab	
2023–2025	Undergraduate project mentor Adelia Honeywood	Brooklyn College, CUNY
	Staniczenko lab	
2023-PRESENT	PhD supervisor James Herlan	City College, CUNY
	Ecology, Evolutionary Biology, and Behavior (NOAA Fellowship awardee)	
2023	Undergraduate project mentor Alex Colasanti	Brooklyn College, CUNY
	Staniczenko lab	
2023–2026	PhD committee Rhema Uche-Dike	American Museum of Natural History
	Richard Gilder Graduate School	
2022	Undergraduate project mentor Torie Robinson	Brooklyn College, CUNY
	Staniczenko lab	
2021	Undergraduate project mentor Mitchell Borshch	Brooklyn College, CUNY
	Brooklyn College Cancer Center	
2021-2024	PhD committee Andriele Silva	Brooklyn College, CUNY
	Biochemistry	
2020–2025	PhD committee Laura Boggess	New York Botanical Garden
	Plant Sciences	
2020–2024	PhD committee Connor French	City College, CUNY
	Ecology, Evolutionary Biology, and Behavior	
2020–PRESENT	PhD co-supervisor Grégoire Proudhon	Czech Academy of Sciences
	Department of Entomology	
2020–2023	PhD committee Erica Johnson	City College, CUNY
	Ecology, Evolutionary Biology, and Behavior	
	PhD committee Aislyn Keyes	University of Boulder Colorado
	Ecology and Evolutionary Biology	
2020–2022	Postdoctoral research mentor Chia-Hua Lue	Brooklyn College, CUNY
	Staniczenko lab	
2020	Undergraduate project mentor Chrismal Abraham	Brooklyn College, CUNY
	Department of Computer and Information Sciences	
2019–2022	PhD committee Jennifer Zhu	Baruch College, CUNY
	Ecology, Evolutionary Biology, and Behavior	

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
2014–2015	PhD project mentor Teresa Attenborough Interdisciplinary Life Sciences	University College London
2014	PhD project mentor Andrew Maher Interdisciplinary Life Sciences	University College London
2013–2014	Postdoctoral research mentor Francesco Caravelli Staniczenko lab	University College London
	Master's project mentor Sameen Khan Department of Mathematics	University College London
TEACHING	Organizer BIOL7910G: Biology Colloquium	Brooklyn College, CUNY
2020–PRESENT	Arrange seminar series and mark student summaries of talks	14 weeks
	Lecturer BIOL3030W: Scientific Writing Communicating science to decision-makers and the public	Brooklyn College, CUNY 14 weeks
	Lecturer BIOL3083: Principles of Ecology Fundamental Topics in Ecology	Brooklyn College, CUNY 14 weeks
2019–PRESENT	Lecturer BIOL76001: Ecology Fundamental and Contemporary Topics in Ecology	Graduate Center, CUNY 14 weeks
	Lecturer BICM87001: Bioinformatics with practicum Scientific Computing for Biologists (4-week component)	Graduate Center, CUNY 14 weeks
2019–2020	Lecturer NSF Advanced Training Course Introduction to Social and Ecological Networks Analysis	SESYNC 5 full days

TEACHING II	Lecturer NSF Summer REU	Brooklyn College, CUNY
2019	Statistics and Scientific Computing	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	Subject-Matter Editor Editorial Board, Ecological Monographs	
2023–PRESENT	Reviewer for Ecological Society of America Annual Meeting Session Proposals	
2023–2024	Chair (Elected) Theoretical Ecology Section, Ecological Society of America	
2022–2023	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	
2018–2019	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 125 manuscripts across 52 peer-reviewed journals	
	Proceedings of the National Academy of Sciences USA, Nature Communications, Nature Ecology & Evolution, Nature Scientific Reports, Science Advances, Communications Biology, 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, Environmental & Ecological Statistics, 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, Journal of Forestry Research, Global Ecology & Biogeography, Diversity & Distributions, Biological Conservation, Current Biology, Journal of Theoretical Biology, Theory in Biosciences, Discover Environment, Diversity, Complexity, PeerJ, Microbiome, Computer Methods and Programs in Biomedicine, npj Systems Biology and Applications, Nonlinear Dynamics, Physical Review Letters, Physical Review Research, Physical Review E, Physical Review X, PRX Life, Journal of the Royal Society Interface	

INSTITUTIONAL SERVICE 2026–PRESENT 2024–2025 2019–PRESENT 2020–2023 2019–2020 2019 2018–2022 2017–2019 2004–2005	Biology Department Appointments Committee	Brooklyn College, CUNY
	Biology Program Nominations Committee	Graduate Center, CUNY
	EEB and Plant Sciences Strategy Committee	Graduate Center, CUNY
	EEB Steering Committee	Graduate Center, CUNY
	Chair, Committee on Review of Student Records	Brooklyn College, CUNY
	University Faculty Council	Brooklyn College, CUNY
	Committee on Review of Student Records	Brooklyn College, CUNY
	University Faculty Senate	CUNY
	NSF Summer REU Selection Committee	Brooklyn College, CUNY
	Special Member of the Graduate Faculty Department of Plant Science and Landscape Architecture	University of Maryland, CP
OUTREACH	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
	Physics Joint Consultative Committee Undergraduate representative (Elected)	University of Oxford
	Presenter Release of the Fishes, Pier 40, Hudson River Park, NY Staniczenko lab research stall	23 October 2024
	Speaker Ask-a-Scientist, Pier 57, Hudson River Park, NY Conversation on research with the general public	3 October 2024
	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

2026

41. *Phenology, Interaction Timing and Forecasting Novel Community Dynamics. Departmental Seminar, 29 September 2026, Department of Ecology, Evolution and Environmental Biology (E3B), Columbia University, NY

40. *Phenology, Interaction Timing and Forecasting Novel Community Dynamics. Online presentation to entomology graduate students, 21 July 2026, University of Georgia, GA

39. *Phenology, Interaction Timing and Forecasting Novel Community Dynamics. Plenary Speaker, Gordon Research Conference on Unifying Ecology Across Scales, 15 July 2026, Stonehill College, MA

2025

38. *Complex networks and social-ecological systems. CUNY Climate Scholars Didactic, 10 Dec 2025, Zoom

2024

37. *Time: the final frontier of ecological networks. Symposium Speaker, Physics of Life, along the Northeast Corridor, 25 Oct 2024, CUNY Graduate Center, NY

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

- 2017 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
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 Consultant on a public sector advertising project	London, UK One week
	Nomura Investment Bank Global Markets Consultant in convertible bonds sales and research	London, UK Three months
2006	New Amsterdam Partners Asset Management Intern in quantitative research and portfolio management	New York City, USA Three months
2005	JP Morgan Investment Bank Global Markets Intern in equity research, semiconductor and oil & gas industries	London, UK Three months