

Christopher Hassall

Curriculum Vitae (March 3, 2016)

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APPOINTMENTS

Marie Curie Research Fellow 2015-2016
University of Leeds, UK

- The Ecology and Evolution of Mimicry in a Changing World (EcoEvoMimic)

Lecturer in Animal Biology 2012-present
University of Leeds, UK

- Research: My research focuses on the impacts of global change (climate change, urbanisation) on ecological systems, and the evolution of insects (e.g. senescence, camouflage, and mimicry).
- Teaching: I teach a range of courses in GIS, field skills, and ecology, and I maintain an active programme of pedagogical research (particularly around learning technology).

Ontario Government Research Fellow 2010-2012
Carleton University, Canada

- The ecology of urban stormwater management facilities
- Supervisor: Prof Tom Sherratt

Commonwealth Postdoctoral Fellow 2009-2010
Carleton University, Canada

- Consequences of climate change for North American dragonflies and damselflies
- Supervisor: Prof Tom Sherratt

EDUCATION

PhD Ecology 2005-2009
University of Liverpool, UK

- The impacts of environmental warming on the biology of dragonflies and damselflies
- Supervisors: Prof David Thompson / Dr Ian Harvey

BSc Zoology 2002-2005
University of Liverpool, UK

PEER-REVIEWED JOURNAL PAPERS

Please click the paper titles to be taken to the Kudos page for that paper where you will find a link to the paper at the publisher's website as well as a pre-print where the paper itself is not open access. I have also provided short commentaries and lay summaries on all papers. You can find citation metrics at my [Google Scholar](#) profile.

38. Villalobos-Jimenez, GJ, Dunn, AM, Hassall, C, "[Dragonflies and damselflies \(Odonata\) in urban ecosystems: a review](#)", *European Journal of Entomology* **113**, 217-232 (2016).
37. Noble A, [Hassall C](#), "[Poor ecological quality of urban ponds in northern England: causes and consequences](#)", *Urban Ecosystems* **18**, 649-662 (2015).
36. Nicholson, DJ, [Hassall C](#), Frazier, JA, "[Comparison of a native and a non-native insular reptile species](#)", *Journal of Tropical Ecology* **31**, 533-536 (2015).
35. [Hassall C](#), Sherratt TN, Watts PC, Thompson DJ, "[Live fast, die old: no evidence of reproductive senescence or costs of mating in a damselfly \(Odonata: Zygoptera\)](#)", *Journal of Animal Ecology* **84**, 1542-1554 (2015).
34. [Hassall C](#), "[Strong geographical variation in wing aspect ratio of a damselfly, *Calopteryx maculata*](#)", *PeerJ* **3**, e1219 (2015).
33. Bried, JT, [Hassall C](#), Simaika, JP, Corser, JD and Ware, J, "[Directions in dragonfly applied ecology and conservation science](#)", *Freshwater Science* **34**, 1020-1022 (2015).
32. [Hassall C](#), "[Odonata as candidate macroecological barometers for global climate change](#)", *Freshwater Science* **34**, 1040-1049 (2015).
31. [Hassall C](#), Anderson S, "[Stormwater ponds can contain comparable biodiversity to unmanaged wetlands in urban areas](#)", *Hydrobiologia* **745**, 137-149 (2015).
30. [Hassall C](#), Bushfield, I, "[Increasing diversity in emerging non-religious communities](#)", *Secularism and Nonreligion* **3**, 7 (2014).
29. Easley JL, [Hassall C](#), "[Field estimates of survival do not reflect ratings of mimetic similarity in wasp-mimicking hoverflies](#)", *Evolutionary Ecology* **28**, 387-396 (2014).
28. Fraser D, [Hassall C](#), Gorelick R, Rybczynski N, "[Mean annual precipitation explains spatiotemporal patterns of Cenozoic mammal beta diversity and latitudinal diversity gradients in North America](#)", *PLOS ONE* **9**, e106499 (2014).
27. [Hassall C](#), "[Continental variation in wing pigmentation in *Calopteryx* damselflies is related to the presence of heterospecifics](#)", *PeerJ* **2**, e438 (2014).
26. [Hassall C](#), "[The ecology and biodiversity of urban pond](#)", *WIREs Water* **1**, 187-206 (2014).
25. Penney HD, [Hassall C](#), Skevington JH, Lamborn B, Sherratt TN, "[The relationship between morphological and behavioral mimicry in hover flies \(Diptera: Syrphidae\)](#)", *The American Naturalist* **183**, 281-289 (2014).
24. [Hassall C](#), Keat S, Thompson DJ, Watts PC, "[Bergmann's rule is maintained during a rapid range expansion in a damselfly](#)", *Global Change Biology* **20**, 475-482 (2014).

23. [Hassall C](#), “[“Going green”: self-archiving as a means for dissemination of research output in ecology and evolution](#)”, *Ideas in Ecology and Evolution* **5**, 93-98 (2013).
22. Webster RJ, [Hassall C](#), Herdman CM, Godin J-GJ, Sherratt TN, “[Disruptive camouflage impairs object recognition](#)”, *Biology Letters* **9**, 20130501 (2013).
21. [Hassall C](#), “[Time stress and temperature explain continental variation in damselfly body size](#)”, *Ecography* **36**, 894-903 (2013).
20. Hossie TJ, [Hassall C](#), Knee W, Sherratt TN, “[Species with a chemical defense, but not chemical offense, live longer](#)”, *Journal of Evolutionary Biology* **26**, 1598-1602 (2013).
19. [Hassall C](#), Hollinshead J, Hull A, “[Temporal dynamics of aquatic communities and implications for pond conservation](#)”, *Biodiversity and Conservation* **21**, 829-852 (2012).
18. [Hassall C](#), “[Predicting the distributions of under-recorded Odonata using species distribution models](#)”, *Insect Conservation and Diversity* **5**, 192-201 (2012).
17. [Hassall C](#), Thompson DJ, “[Study design and mark recapture estimates of dispersal: a case study with the endangered damselfly *Coenagrion mercuriale*](#)”, *Journal of Insect Conservation* **16**, 111-120 (2012).
16. Mlynarek JJ, [Hassall C](#), Forbes MR, “[Higher gregarine parasitism often in sibling species of host damselflies with smaller geographical distributions](#)”, *Ecological Entomology* **37**, 419-425 (2012).
15. Penney HD, [Hassall C](#), Skevington JH, Abbott KR, Sherratt TN, “[A comparative analysis of the evolution of imperfect mimicry](#)”, *Nature* **483**, 461-464 (2012).
14. [Hassall C](#), Sherratt TN, “[Statistical inference and spatial patterns in correlates of IQ](#)”, *Intelligence* **39**, 303-310 (2011).
13. [Hassall C](#), Hollinshead J, Hull A, “[Environmental correlates of plant and invertebrate species richness in ponds](#)”, *Biodiversity and Conservation* **20**, 3189-3222 (2011).
12. Sherratt TN, [Hassall C](#), Laird RA, Thompson DJ, Cordero-Rivera A, “[A comparative analysis of senescence in adult damselflies and dragonflies \(Odonata\)](#)”, *Journal of Evolutionary Biology* **24**, 810-822 (2011).
11. Thompson DJ, [Hassall C](#), Lowe CD, Watts PC, “[Field estimates of reproductive success in a model insect: behavioural surrogates are poor predictors of fitness](#)”, *Ecology Letters* **14**, 905-913 (2011).
10. [Hassall C](#), Lowe CD, Harvey IF, Watts PC, Thompson DJ, “[Phenology determines seasonal variation in ectoparasite loads in a natural insect population](#)”, *Ecological Entomology* **35**, 514-522 (2010).
9. [Hassall C](#), Thompson DJ, “[Accounting for recorder effort in the detection of range shifts from historical data](#)”, *Methods in Ecology and Evolution* **1**, 343-350 (2010).
8. Sherratt TN, Laird RA, [Hassall C](#) et al., “[Empirical evidence of senescence in adult damselflies \(Odonata: Zygoptera\)](#)”, *Journal of Animal Ecology* **79**, 1034-1044 (2010).

7. [Hassall C](#), Thompson DJ, Harvey IF, “[The impact of climate-induced distributional changes on the validity of biological water quality metrics](#)”, *Environmental Monitoring and Assessment* **160**, 451-456 (2010).
6. [Hassall C](#), Thompson DJ, “[Variation in wing spot size and asymmetry of the Banded Demoiselle *Calopteryx splendens* \(Harris, 1780\)](#)”, *Journal of the British Dragonfly Society* **25**, 7-15 (2009).
5. [Hassall C](#), Thompson DJ, Harvey IF, “[Variation in morphology between core and marginal populations of three British damselflies](#)”, *Aquatic Insects* **31**, 187-197 (2009).
4. [Hassall C](#), Thompson DJ, “[The impacts of environmental warming on Odonata: a review](#)”, *International Journal of Odonatology* **11**, 131-153 (2008).
3. [Hassall C](#), Thompson DJ, Harvey IF, “[Latitudinal variation in morphology in two sympatric damselfly species with contrasting range dynamics \(Odonata: Coenagrionidae\)](#)”, *European Journal of Entomology* **105**, 939-944 (2008).
2. [Hassall C](#), Thompson DJ, Harvey IF, “[Wings of *Coenagrion puella* vary in shape at the northern range margin \(Odonata: Coenagrionidae\)](#)”, *International Journal of Odonatology* **11**, 35-41 (2008).
1. [Hassall C](#), Thompson DJ, French GC, Harvey IF, “[Historical changes in the phenology of British Odonata are related to climate](#)”, *Global Change Biology* **13**, 933-941 (2007).

BOOK CHAPTER

- [Hassall C](#), Gledhill, D., Hill, M., Biggs, J. Urban ponds: ecology, management, and policy. In: Urban Landscape Ecology, [Eds Francis, R., Milligan, J.] Routledge, London. (2015).

NON-TECHNICAL PUBLICATIONS

- [Hassall C](#), (2015) Feature: Ponds in cities - opportunity or liability? *Natterchat*
- [Hassall, C](#) (2015) Urban ponds: a management challenge and a biodiversity opportunity, *FBA News*, 64: 6-7.
- [Hassall, C](#), Hebborn, C.A., Centen, C.J. (2013) Climate Change Denial in the Classroom, *Skeptical Inquirer*, 37 (3): 40-44.
- [Hassall C](#) (2009) Dragonflies and man, *Antenna*, 33: 98-99.
- [Hassall C](#) (2009) Environment Strategy and Action Plans: Progress Made (Research Paper), Cardiff, UK, National Assembly for Wales.
- [Hassall, C](#) (2007) Causes and consequences of body size variation in a damselfly. *Bedfordshire Naturalist*, 62 (2), 58-62.

RESEARCH FUNDING

Total grant income ca. £430k

- European Union, “Marie Curie Fellowship”, £180,400 (Fellow/PI, 01/2015 - 12/2016).
- European Union, “Career Integration Grant”, £78,000 (PI, *turned down*).
- Royal Society, “Contributions of aquatic thermal microclimates to aquatic ecosystem structure”, £14,700 (PI, 01/2015 - 12/2015).
- University of Leeds, “University Student Education Fellowship”, £4,000 (PI, 01/2015 - 12/2018).
- Physiological Society, “Barriers to the use of electronic resources in the teaching of physiology”, £11,260 (PI, 04/2015 - 03/2016).
- Freshwater Biological Association, “The ecology of urban stormwater management facilities”, £5,780 (Fellow/PI, 03/2011 - 02/2012).
- Ontario Government, “Ontario Ministry of Research and Innovation Postdoctoral Fellowship”, £54,600 (Fellow/PI, 10/2010 - 09/2012).
- British Ecological Society, “Continental variation in morphology and immune function in a damselfly”, £3,870 (PI, 01/2010 - 12/2010).
- Canadian Government, “Commonwealth Postdoctoral Fellowship”, £16,770 (PI, 09/2009 - 08/2010).
- Royal Entomological Society, “Conference participation grant”, £400 (PI, 03/2011 - 02/2012).
- NERC, “PhD Studentship”, £64,740 (student, 10/2005 - 07/2009).

INVITED TALKS AND SEMINARS

12. Invited seminar, University of Vigo (Vigo, Spain), Sept 2015
11. Invited seminar, University College London (London, UK), May 2015
10. Invited session chair, Symposium on European Freshwater Sciences (Geneva, Switzerland), Sept 2015
9. Invited seminar, University of Hull (Hull, UK), Oct 2014
8. Invited seminar, Humberhead Levels Monitoring Meeting (Doncaster, UK), July 2014
7. Invited seminar, University of Leuven (Leuven, Belgium), June 2014
6. Invited seminar, Manchester Metropolitan University (Manchester, UK), Jan 2014
5. Invited talk, Behaviour 2013 (Newcastle, UK), Aug 2013
4. Invited talk, International Congress on Odonatology (Freising, Germany), June 2013

3. Invited seminar, University of York (York, UK), March 2013
2. Invited seminar, University of Leeds (Leeds, UK), Oct 2010
1. Invited seminar, Carleton University (Ottawa, Canada), April 2010

RESEARCH SUPERVISION

1. Sonja Wild (2nd supervisor) – PhD 2016-present “Emergent behaviour in dolphin social networks” *University of Leeds*
2. Tom Dally (2nd supervisor) – PhD 2015-present “Development of a national pollinator monitoring strategy” *University of Leeds*
3. Robert Williams (1st supervisor) – PhD 2015-present “Ecology and evolution of non-native lizards in the UK” *University of Leeds*
4. Zak Mitchell (1st supervisor) – PhD 2014-present “Contributions of biomechanics to responses to global change in the Odonata” *University of Leeds*
5. Elizabeth Morgan (2nd supervisor) – PhD 2014-present “Individual variation in foraging behaviour in a seabird” *University of Leeds*
6. Giovanna Jesus Villalobos-Jimenez (1st supervisor) – PhD 2014-present “Impacts of urbanisation on dragonflies and damselflies” *University of Leeds*
7. Jennette Fox – MSc 2011-2012 “Female polymorphisms and mate choice in damselflies” *Carleton University*

A wide array of other research students have conducted research projects in my lab as part of undergraduate and postgraduate thesis work.

OTHER RESEARCH ACTIVITIES

- Grant review: NERC, BBSRC, l’Agence Nationale de la Recherche, BiodivERSA3 ERA-NET, NASA.
- Journal review: *Advances in Physiology Education*, *American Naturalist*, *Aquatic Ecology*, *Biological Journal of the Linnaen Society*, *Biology Letters*, *Evolutionary Ecology*, *Central European Journal of Biology*, *Diversity and Distributions*, *Ecological Entomology*, *Ecological Informatics*, *Ecology and Evolution*, *Ecology Letters*, *Evolutionary Ecology*, *Freshwater Science*, *Global Change Biology*, *Hydrobiologia*, *International Journal of Biometeorology*, *International Journal of Odonatology*, *Insect Conservation and Diversity*, *Journal of Zoology*, *Journal of Asian and Pacific Entomology*, *Journal of the British Dragonfly Society*, *Journal of Insect Conservation*, *Journal of Insect Science*, *Methods in Ecology and Evolution*, *Oecologia*, *PeerJ*, *PLOS ONE*, *Nature*, *Secularism and Nonreligion*, *WIREs Water*.
- Proposed and chaired *Symposium for European Freshwater Sciences* session on the Ecology of Urban Freshwaters (Geneva, Switzerland, 2015).
- External PhD examiner at the University of Leuven (Belgium), and University of Oporto (Portugal), and internal PhD examiner on several theses at the University of Leeds.

- **Guest Editor** for special issue of *Freshwater Science* on "Applied Odonatology" (2015).
- **Associate Editor** of *Ecological Entomology* (2015-present).
- **Associate Editor** of *Insect Conservation and Diversity* (2014-present).
- NERC Policy Secondment to Welsh Government (2009).

AWARDS

- 2015 Elected Fellow, Higher Education Academy
- 2014 Elected Fellow, Royal Entomological Society
- 2014 University Student Education Fellowship
- 2013 International Congress on Odonatology Young Speakers Prize
- 2009 Royal Entomological Society Student Award
- 2005 Liverpool Biological Society Prize in Zoology
- 2004 Agnes Sinclair Undergraduate University Scholarship
- 2003 Agnes Sinclair Undergraduate University Scholarship

MAJOR DEPARTMENTAL COMMITTEES CHAIRED

- Faculty Blended Learning Committee, 2012-2015

TEACHING

School of Biology, University of Leeds:

- 2012-present: **BLGY1304 Research Experience and Skills Level 1**
1st year tutorial module, on which I tutor a small group of students in the basics of academic research, analysis, and writing within the context of a student-led scientific project.
- 2012-present: **BLGY2301 Research Experience and Skills Level 2**
2nd year tutorial module. Students receive additional training in employability and communication skills.
- 2012-2015: **BLGY2313 Mediterranean Ecology Field Course**
Field course in Andalucia, Spain. Before departure, students are placed into groups and plan a project in collaboration with a member of staff. The students design the study and plan their equipment, for which they are responsible. During their time at the field station students conduct a single study over the course of 8-10 days. All data collection, analysis, and reporting of results is done on-site, with a final seminar given in front of the whole group on the penultimate day. Examples of projects include bird mist-netting, reptile surveys, pollinator ecology, and insect dispersal ecology.

- 2012-2015: **BLGY5156M Masters Mediterranean Ecology Field Course**
 The MSc field course runs alongside the undergraduate field course (see above). The MSc students work in smaller groups (almost always pairs) to plan a more challenging project that makes use of the additional skills that they have acquired during their studies. The MSc students have an additional requirement of a short research paper that is written-up on their return to Leeds after the course.
- 2012-present: **BLGY3021 20 Credit Research Projects**
 All students take a research project as part of their degree. The 20 credit projects allow for a short project or literature review to be carried out. I offer a range of projects in freshwater ecology, urban ecology, and the evolution of mimicry (among others). However, I often work with students to design alternative projects along their particular lines of interest.
- 2012-present: **BLGY3340 40 Credit Research Projects**
 Lasting twice as long as the 20 credit projects, the 40 credit projects give students an excellent opportunity to experience the research environment. I offer projects in similar areas to the 20 credit projects described above. I have been fortunate to have worked with some excellent undergraduate students, and have published a number of papers with those students as a result of their work:
 - Easley JL, [Hassall C](#), “[Field estimates of survival do not reflect ratings of mimetic similarity in wasp-mimicking hoverflies](#)”, *Evolutionary Ecology* **28**, 387-396 (2014).
- 2012-2015: **BLGY3133 Advanced Topics in Ecology**
 As part of a team of lecturers teaching on this module, I give a short series of lectures on “Ecology in the Anthropocene”. I highlight the impacts that human activity have on ecological systems, from habitat fragmentation and over exploitation to genetic modification of populations and the specific case of urbanisation. I teach the submodule using a “flipped classroom” approach by providing students with online lectures before the class time and leading discussions during the contact hours. Assessment is through a diverse array of group activities, including policy documents, podcasts, presentations, and Nature “News & Views”-style research summaries.
- 2012-present: **BLGY5117M Introduction to GIS Skills for Ecologists**
 Geographical Information Systems are a core part of the academic and practical conservation work that our students carry out after graduation, and this module equips them with the skills to be able to use the technology to full effect. Students are guided through a series of lectures to introduce concepts, and then computer labs where they use realworld data to explore the capabilities of ArcGIS. In future years, I will be expanding the course to cover open source GIS software (QGIS and R).
- 2013-2014: **BLGY5162M Insect Identification**
 This module provides students with a solid grounding in insect sampling, mounting, and identification techniques in three phases: (i) the students visit a local nature reserve to create an insect collection with representatives from as broad a range of insects as possible, (ii) specific training in Carabidae (ground beetle) identification, and (iii) specific training in Diptera (mostly soldierflies and hoverflies) identification. Assessment is by identification skills and the presentation of pinned specimens.
- 2012-present: **BLGY5198M Biodiversity and Conservation MRes Research Project**
 MRes students on the Biodiversity and Conservation programme undertake to consecutive

research projects. I work with my project students to guide them in the design, execution, analysis and write-up of a project. Sometimes these projects are within my own areas of interest, but often the students themselves conceive a study and pursue that to completion.

- **2012-present: BLGY5191M Biodiversity and Conservation Summer Project**

A 60 credit project module that requires a substantial piece of work over the summer (May-Sept). As with all of the research project modules, I offer a wide range of potential topics that reflect my own interests, but am happy to guide a student who wishes to design their own. Ultimately, a publishable piece of work is the goal of this module, and I have been extremely lucky to have worked with some excellent early career scientists whose theses we have since published:

- Noble A, [Hassall C](#), “[Poor ecological quality of urban ponds in northern England: causes and consequences](#)”, *Urban Ecosystems* **18**, 649-662 (2015).
- Nicholson, DJ, [Hassall C](#), Frazier, JA, “[Comparison of a native and a non-native insular reptile species](#)”, *Journal of Tropical Ecology* **31**, 533-536 (2015).

Department of Biology, Carleton University:

- **2011-2012: BIOL3602 Conservation Biology**

As a contract instructor at Carleton University I designed and taught an extensive Conservation Biology course for 3rd year undergraduate students. The course involved 12 lectures and 12 accompanying workshops and included topics spanning fundamental science (metapopulation ecology, population genetics) to realworld application (guest talks from conservation scientists and policy makers), as well as training in key skills (GIS, public speaking).

- **2011-2012: BIOL4908 Biology Honours Projects**

I assisted with a number of undergraduate thesis projects while working in the Sherratt Lab at Carleton, including formal supervision of a student as a field assistant for a project on urban stormwater ponds. I am delighted to say that the data from that project were later written-up and published, with the student as a co-author:

- [Hassall C](#), Anderson S, “[Stormwater ponds can contain comparable biodiversity to unmanaged wetlands in urban areas](#)”, *Hydrobiologia* **745**, 137-149 (2015).

School of Biological Sciences, University of Liverpool:

- **2005-2009: Range of teaching assistant positions**

While a graduate student at the University of Liverpool I undertook a wide array of teaching assignments in the school. These included courses in Field Skills (1st year and 3rd year undergraduate courses), bioinformatics and phylogenetic analysis (3rd year course), quantitative biology (2nd year course), and laboratory skills (1st year course).

OUTREACH ACTIVITIES

- **”Denying the Evidence: Why People Reject Science”**

This talk discusses the denial of scientific concepts such as evolution, climate change, and HIV, along with the history and psychology of science communication. I have given the talk a number of times:

- 03-12-15, Teesside Skeptics in the Pub (Middlesborough, UK)
- 11-11-15, University of Sheffield Secular Society (Sheffield, UK)
- 04-06-15, Barnsley Skeptics in the Pub (Barnsley, UK)
- 24-11-14, York Skeptics in the Pub (York, UK)
- 17-09-14, Leeds Skeptics in the Pub (Leeds, UK)
- 25-08-14, Sheffield Skeptics in the Pub (Sheffield, UK)
- 13-08-14, Stoke Skeptics in the Pub (Stoke, UK)
- 26-03-14, Leeds City College (Leeds, UK)
- 19-11-13, Leeds University Atheist Society (Leeds, UK)
- 21-11-12, Liverpool University Humanist Society (Liverpool, UK)

- **“Avoiding Attack! Evolution, camouflage and mimicry”**

Much of my formal outreach occurs in schools, and I have been an active participant in the Leeds Festival of Science for a number of years. This has involved designing an interactive classroom session which is delivered either on campus or during a visit to schools. I have given the session a number of times, and the materials are freely available [online](#):

- 11-03-16, Allerton High School (Leeds, UK)
- 10-03-16, John Smeaton Academy (Leeds, UK)
- 19-03-15, Priesthorpe School (Leeds, UK)
- 18-03-15, E-ACT Leeds East Academy (Leeds, UK)

- **”The Evolution of Camouflage and Mimicry”**

I have a talk for the general public on my research concerning camouflage and mimicry. The title has changed recently to the slightly more engaging ”Darwin, Deception, and the Disappearing Ducks”. I have given the talk a number of times:

- 02-02-16, Darwin Day Lecture, North Yorkshire Humanist Group (York, UK)
- 23-06-15, Chapel Allerton Cafe Scientifique (Leeds, UK)
- 08-09-13, Leeds Museum Cafe Scientifique (Leeds, UK)

- **Miscellaneous public talks**

I have given public talks on many other topics over the years:

- 14-06-15, “What can nature do for you?”, Sunday Assembly Manchester (Manchester, UK)
- 01-05-14, “A Humanist Perspective on Life, Death, and Ethics” , Ralph Thoresby School (Leeds, UK)
- 24-10-15, “Insects and climate change: the case of Odonata”, British Entomological and Natural History Society Student Day (Winnersh, UK)
- 01-08-10, “Why Evolution is True”, Ottawa Skeptics (Ottawa, Canada)
- 06-05-11, “What’s the Harm in Homeopathy?”, High School Enrichment Course at Carleton University (Ottawa, Canada)

- 17-07-11, “The Evolution of Superstition: People, Pigeons and PCs”, Polaris SciFi Convention (Toronto, Canada)

- **Podcast appearances**

From time to time I appear on podcasts (and had a guest host role on the ”Reality Check” during my time in Canada):

- [League of Nerds Episode #109: Climate Change](#)
- [Reality Check Episode #186](#)
- [Reality Check Episode #204](#)
- [Reality Check Episode #205](#)
- [Reality Check Episode #208](#)