I am an evolutionary ecologist and ecological modeller with broad interests in developing theory across the biological and environmental sciences. My research primarily uses mathematical and individual-based models to understand complex interactions in populations, communities, and social-ecological systems. I am especially interested in applying these modelling approaches to questions concerning the evolution and maintenance of biodiversity, and the management of populations under conservation conflict.

Professional Appointments

Lecturer in Environmental Modelling, Nov. 2020 – present Biological and Environmental Sciences, University of Stirling

Leverhulme Trust Early Career Fellow, Nov. 2017 – Oct. 2020 Biological and Environmental Sciences, University of Stirling

ERC Postdoctoral Research Assistant, Nov. 2016 – Oct. 2017 Biological and Environmental Sciences, University of Stirling

ERC Postdoctoral Research Fellow, Jun. 2013 – Oct. 2016 School of Biological Sciences, University of Aberdeen

Education

Ph.D. Ecology and Evolutionary Biology, Spring 2013 Graduate Minor: Statistics Certificate: Graduate Student Teaching Certificate Iowa State University

B.S. Biology (Magna cum laude), Spring 2007 Specialisation: Ecology, Evolution, Environment Southern Illinois University Edwardsville

B.S. Philosophy (Magna cum laude), Spring 2007 Minor: Chemistry Southern Illinois University Edwardsville

A. Bradley Duthie Ph.D., FHEA

Evolutionary Ecologist Ecological Modeller Biostatistician

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- http://bradduthie.github.io
- bradduthie

Grants and Fellowships

Decision Support Tool: Atlantic Salmon Likely Suspects Framework (Co-PI; 2021)	12,000 GBP
sDiv-CESAB joint call: Coexistence & Stability in High-Diversity Communities (2020)	30,000 EUR
BBSRC-FAPESP-Newton Fund (Co-PI; 2019)	620,956 GBP
Scottish Natural Heritage Tender (Co-PI; 2018)	9,947 GBP
Leverhulme Trust Early Career Fellowship (2017)	88,650 GBP
NSF Postdoctoral Research Fellowship in Biology (2013; award declined)	138,000 USD
NSF Doctoral Dissertation Improvement Grant (2010)	13,411 USD

Biotechnology Graduate Fellowship (ISU; 2007)

20,000 USD

Publications

- 32. Jones, I. L., A. Timoshenko, I. Zuban, K. Zhadan, J. J. Cusack, A. B. Duthie, I. D. Hodgson, J. Minderman, R. A. Pozo, R. C. Whytock, N. Bunnefeld. 2022. Achieving international biodiversity targets: learning from migratory waterfowl management. *Journal of Applied Ecology. Accepted*.
- 31. Bach, A., J. Minderman, N. Bunnefeld, A. Mill, A. B. Duthie. 2022. Intervene or wait? Modelling the timing of intervention in conservation conflicts adaptive management under uncertainty. *Ecology and Society*. *In press*.
- 30. Dawson, S., C. Pérez Carmona, M. Gonzalez Suarez, M. Jönsson, F. de Carvalho, M. Mallen-Cooper, Y. Melero, H. Moor, J. Simaika, and **A. B Duthie**. 2021. The traits of 'trait ecologists': an analysis of the use of trait and functional trait terminology. *Ecology and Evolution*. 11:16434-16445. DOI: 10.1002/ece3.8321.
- 29. Rakotonarivo, O. S., A. Bell, B. Dillon, **A. B. Duthie**, A. Kipchumba, R. Rasolofoson, J. Razafimanahaka, N. Bunnefeld. 2021. Experimental evidence on the impact of payments and property rights on forest user decisions. *Frontiers in Conservation Science*. 2:661987. DOI: 10.3389/fcosc.2021.661987.
- 28. **Duthie, A. B.,** J. Minderman, O. S. Rakotonarivo, G. Ochoa, and N. Bunnefeld. 2021. Online multiplayer games as virtual laboratories for collecting data on socio-ecological decision-making. *Conservation Biology*. 35:1051-1053. DOI: 10.1111/cobi.13633
- 27. Rakotonarivo, O. S., A. Bell, K. Abernathy, J. Minderman, A. B. Duthie, S. Redpath, A. Keane, H. Travers, S. Bourgeois, L.-L. Moukagni, J. J. Cusack, I. L. Jones, R. A. Pozo, and N. Bunnefeld. 2021. The role of incentive-based instruments and social equity in conservation conflict interventions. *Ecology and Society.* 26:8. DOI: 10.5751/ES-12306-260208
- 26. Pozo, R. A., E. LeFlore, **A. B. Duthie**, N. Bunnefeld, I. L. Jones, J. Minderman, O. S. Rakotonarivo, and J. J. Cusack. 2021. A spatiotemporal, multi-species assessment of wildlife impacts on local community livelihoods. *Conservation Biology*. 35:297-306. DOI: 10.1111/cobi.13565
- 25. Rakotonarivo, O. S., I. L. Jones, A. Bell, **A. B. Duthie**, J. J. Cusack, J. Minderman, J. Hogan, I. Hodgson, and N. Bunnefeld. 2021. Experimental evidence for conservation conflict interventions: the importance of financial payments, community trust and equity attitudes. *People and Nature*. 3: 162-175. DOI: 10.1002/pan3.10155
- 24. Nilsson, L., J. Minderman, N. Bunnefeld, and **A. B. Duthie**. 2021. Effects of stakeholder empowerment on crane population and agricultural production. *Ecological Modelling*. 404:109396. DOI: 10.1016/j.ecolmodel.2020.109396
- 23. **Duthie, A. B.** 2020. Component response rate variation underlies the stability of highly complex finite systems. *Scientific Reports*. 10: 8296. DOI: 10.1038/s41598-020-64401-w
- 22. Cusack, J. J., **A. B. Duthie**, I. L. Jones, J. Minderman, R. A. Pozo, O. S. Rakotonarivo, S. Redpath, and N. Bunnefeld. 2020. Integrating conflict, lobbying and compliance to predict the sustainability of natural resource use. *Ecology and Society*. 25(2): 13. DOI: 10.5751/ES-11552-250213
- 21. Minderman, J., J. Cusack, A. B. Duthie, I. L. Jones, R. A. Pozo, O. S. Rakotonarivo, and N. Bunnefeld. 2019. Decision trees for data publishing may exacerbate conservation conflict. *Nature Ecology and Evolution*. 3:318. DOI: 10.1038/s41559-019-0804-7

Cusack, J. J., A. B. Duthie, O. S. Rakotonarivo, R. A. Pozo, T. H. E. Mason, J. Månsson, L. Nilsson, R. McKenzie, I. M. Tombre, E. Eythórsson, J. Madsen, A. Tulloch, G. Churchill, J. Shaw, R. D. Hearn, S. Redpath, and N. Bunnefeld. 2019. Time series analysis reveals synchrony and asynchrony between conflict management effort and increasing large grazing bird populations in northern Europe. Conservation Letters. 12:e12450. DOI: 10.1111/conl.12450

- 19. **Duthie, A. B.,** J. J. Cusack, J. Minderman, I. L. Jones, E. B. Nilsen, R. A. Pozo, O. S. Rakotonarivo, B. Van Moorter, and N. Bunnefeld. 2018. GMSE: an R package for generalised management strategy evaluation. *Methods in Ecology and Evolution*. 9:2396-2401. DOI: 10.1111/2041-210X.13091
- 18. Paine, C. E. T., A. Deasey, and **A. B. Duthie**. 2018. Towards general mechanistic predictions of community dynamics. *Functional Ecology*. 32 (7):1681-1692. DOI: 10.1111/1365-2435.13096
- 17. Redpath, S. M., Andren, Z. Baynham-Herd, N. Bunnefeld, A. B. Duthie, Frank, C. A. Garcia, A. Keane, J. Månsson, L. Nilsson, C. R. J. Pollard, O. S. Rakotonarivo, C. F. Salk, and H. Travers. 2018. Games as tools to address conservation conflicts. *Trends in Ecology and Evolution*. 33 (6):415-426. DOI: 10.1016/j.tree.2018.03.005
- 16. **Duthie, A. B.**, G. Bocedi, R. R. Germain, and J. M. Reid. 2018. Evolution of pre-copulatory and post-copulatory strategies of inbreeding avoidance and associated polyandry. *Journal of Evolutionary Biology*. 31:31-45. DOI: 10.1111/jeb.13189
- 15. **Duthie, A. B.,** A. M. Lee, and J. M. Reid. 2016. Inbreeding parents should invest more resources in fewer offspring. *Proceedings of the Royal Society B.* 282:20161845. DOI: 10.1098/rspb.2016.1845
- 14. **Duthie, A. B.**, and J. M. Reid. 2016. Evolution of inbreeding avoidance and inbreeding preference through mate choice among interacting relatives. *American Naturalist*. 188 (6):651-667. DOI: 10.1086/688919
- 13. **Duthie, A. B.**, and J. D. Nason. 2016. Plant connectivity underlies plant-pollinator-exploiter distributions in *Ficus petiolaris* and associated pollinating and non-pollinating fig wasps. *Oikos*. 125 (11):1597-1606. DOI: 10.1111/oik.02905
- 12. **Duthie, A. B.**, G. Bocedi, and J. M. Reid. 2016. When does female multiple mating evolve to adjust inbreeding? Effects of inbreeding depression, direct costs, mating constraints, and polyandry as a threshold trait. *Evolution*. 70 (9):1927-1943. DOI: 10.1111/evo.13005
- 11. Frater, P. N., and **A. B. Duthie**. 2016. Power scaling, vascular branching patterns, and the golden ratio. *Ideas in Ecology and Evolution*. 9:15-18. DOI: 10.4033/iee.2016.9.4.n
- 10. Reid, J. M., G. Bocedi, P. Nietlisbach, A. B. Duthie, M. E. Wolak, E. A. Gow, and P. Arcese. 2016. Variation in parent-offspring kinship in socially monogamous systems with extra-pair reproduction and inbreeding. *Evolution*. 70 (7):1512-1529. DOI: 10.1111/evo.12953
- 9. Reid, J. M., P. Arcese, G. Bocedi, **A. B. Duthie**, M. E. Wolak, and L. F. Keller. 2015. Resolving the conundrum of inbreeding depression but no inbreeding avoidance: estimating sex-specific selection on inbreeding by song sparrows (*Melospiza melodia*). *Evolution*. 69 (11):2846-2861. DOI: 10.1111/evo.12780
- 8. **Duthie, A. B.,** K. C. Abbott, and J. D. Nason. 2015. Trade-offs and coexistence in fluctuating environments: evidence for a key dispersal-fecundity trade-off in five nonpollinating fig wasps. *American Naturalist*. 186 (1):151-158. DOI: 10.1086/681621
- 7. Reid, J. M., **A. B. Duthie**, M. E. Wolak, and P. Arcese. 2015. Demographic mechanisms of inbreeding adjustment through extra-pair reproduction. *Journal of Animal Ecology*. 84 (4):1029-1040. DOI: 10.1111/1365-2656.12340

6. **Duthie, A. B.**, and J. M. Reid. 2015. What happens after inbreeding avoidance? Inbreeding by rejected relatives and the inclusive fitness benefit of inbreeding avoidance. *PLoS One.* 10 (4):e0125140. DOI: 10.1371/journal.pone.0125140

- 5. Duthie, A. C., and **A. B. Duthie**. 2015. Do music and art influence one another? Measuring cross-modal similarities in music and art. *Polymath: An Interdisciplinary Arts and Sciences Journal*. 5 (1):1-22.
- 4. Reid, J. M., P. Arcese, L. F. Keller, R. R. Germain, A. B. Duthie, S. Losdat, M. E. Wolak, and P. Nietlisbach. 2015. Quantifying inbreeding avoidance through extra-pair reproduction. *Evolution*. 69 (1):59-74. DOI: 10.1111/evo.12557
- 3. **Duthie, A. B.,** K. C. Abbott, and J. D. Nason. 2014. Trade-offs and coexistence: A lottery model applied to fig wasp communities. *American Naturalist*. 183 (6):826-841. DOI: 10.1086/675897
- 2. **Duthie, A. B.**, and M. R. Falcy. 2013. The influence of habitat autocorrelation on plants and their seed-eating pollinators. *Ecological Modelling*. 251:260-270. DOI: 10.1016/j.ecolmodel.2012.12.019
- 1. **Duthie, A. B.** 2004. The fork and the paperclip: A memetic perspective. *Journal of Memetics Evolutionary Models of Information Transmission*. 8 (1). http://cfpm.org/jom-emit/2004/vol8/duthie_ab.html.

Teaching Experience

As an educator, I take a learning-centred approach to guide students through course material, and I evaluate my teaching as successful when I have evidence that students are thinking actively and effectively about biological concepts. I have experience developing and delivering course content, and in student assessment, in both traditional and online formats. I have additionally developed learning software, specifically for teaching numerical and individual-based ecological modelling to undergraduate students.

Professional Development:

- Fellow of the Higher Education Academy
- Principles of Learning and Teaching in Higher Education programme. University of Aberdeen.
- Preparing Future Faculty (PFF) Program: Iowa State University. PFF Associate.
- Graduate Student Teaching Certificate (GSTC) Program (PFF Track): Iowa State University.

University Instruction:

- Statistical Techniques Module Coordinator (SCIU4T4; Undergraduate: 20 credits) University of Stirling. Spring 2021, 2022.
- Evolution and Genetics Module Contributor (BIOU3EG; Undergraduate: 20 credits) University of Stirling. Autumn 2020, 2021 (coordinator).
- Behavioural Ecology Module Contributor (BIOU6BE; Undergraduate: 20 credits) University of Stirling. Spring 2019-2022.
- Biology Field Course Module Contributor (SCIU₃FB; Undergraduate: 20 credits) University of Stirling. Autumn 2017-2021.
- Introduction to Ecological and Environmental Modelling Module Contributor (BI 4803; Undergraduate: 15 credits). University of Aberdeen. Spring 2015, 2016.
- Biology for Undergraduates (BUGS) Tutorial Session ZOO-4 (BI 1006; Undergraduate: 7.5 credits). University of Aberdeen. Autumn 2014.

• Biological Evolution (BIOL 315; Undergraduate: 3 credits). Iowa State University. Summer 2011, 2012*, Spring 2013*. *Distance Learning Course (online).

University Teaching Assistantships:

- Biological Evolution (BIOL 315; Undergraduate: 3 credits). Iowa State University. Spring 2011-2012.
- Principles of Biology Laboratory I (BIOL 211L; Undergraduate: 1 credit). Iowa State University. Autumn 2008, 2012.
- Principles of Biology Laboratory II (BIOL 212L; Undergraduate: 1 credit). Iowa State University. Autumn 2009-2011, Spring 2008-2010.

Workshops:

- Exploring the power of 'R Shiny' and 'R Markdown' (Workshop leader for later year PhD students). IAPETUS Doctoral Training Partnership Induction Event. University of Stirling. 22 NOV 2018.
- Version control for reproducible science (Workshop leader for later year PhD students). IAPETUS
 Doctoral Training Partnership Event. Scottish Centre for Ecology and the Natural Environment. 16
 JAN 2020.
- Stirling Coding Club (SCC). Developing and leading fortnightly workshops (13 total) on programming and data analysis at the University of Stirling.

Student Supervision

Undergraduate researchers. 15 Students (2010-2022)

Doctoral researchers. Adrian Bach (2018-2022), Théo S. C. Pannetier (2020-2022), John H. Paterson (2020-2021), and Benjamin M. Marshall (2021-2025).

Leadership

Associate Editor: Journal of Animal Ecology (2021-present)

Manuscript reviewer: Acta Oecologica, American Naturalist, Annals of Human Biology, Arthropod-Plant Interactions, Behavioral Ecology, Behavioral Ecology and Sociobiology, Biology Letters (5), BMC Evolutionary Biology, Ecology and Evolution (4), Ecological Complexity, Ecological Modelling (2), Environmental Conservation, Evolution (6), Evolutionary Ecology (3), the Journal of Animal Ecology, the Journal of Applied Ecology (3), the Journal of Theoretical Biology (3), Landscape Ecology, Molecular Ecology (2), Oikos (4), PLoS One, Proceedings of the National Academy of Sciences USA (2), Proceedings of the Royal Society B (2), Royal Society Open Science, Scientific Reports (2), and Symbiosis

Grant reviewer: National Science Foundation (USA), Université Bourgogne – Franche-Comté (UBFC), Centre for Interdisciplinary Research in Animal Health (CIISA), and L'Agence nationale de la recherche (ANR)

Conference organiser: Midwest Ecology and Evolution Conference at Iowa State University (2010)

Workshop organiser: European Congress of Conservation Biology in Jyväskylä, Finland (2018)

Representative: Biological and Environmental Sciences Library (UoS; 2019), Post-doctoral researchers (organiser at UoS; 2017-2019), Graduate and Professional Student Senate (Senator at ISU; 2011-2013), and Graduate Research in Evolutionary Biology and Ecology (Vice President at ISU; 2009-2010)

Computer Skills

Experience in statistical analysis, mathematical & individual-based modelling, genetic algorithms, and computer programming in C and R

Use of Linux, git, and high performance computing clusters

Knowledge of HTML, Markdown, LATEX, and MS Office Suite

Course design and instruction in Blackboard and Canvas

Software Developed

All listed software is publicly available on the Comprehensive R Archive Network (CRAN) and on GitHub.

3. resevol vo.2.o.o. 2021. Simulate Agricultural Production and Evolution of Pesticide.

Written in R and C.

R Package link: < http://CRAN.R-project.org/package=resevol >

Website link: < https://bradduthie.github.io/resevol/ >

- 2. GMSE vo.3.1.9. 2017. Generalised Management Strategy Evaluation Simulator. Written in R andC. R package link: < http://CRAN.R-project.org/package=GMSE > Website link: < https://confoobio.github.io/gmse/ >
- 1. **gamesGA** *v*1.1.3.2. 2017. Genetic Algorithm for Sequential Symmetric Games. *Written in R and C.* R package link: < http://CRAN.R-project.org/package=gamesGA >

Presentations

‡Denotes invited talk, *Denotes undergraduate author

Cusack, J., A. B. Duthie, R. Pozo, S. Redpath, and N. Bunnefeld. 2019. Non-compliance and biased management decisions predict population trends of harvested species. International Society for Ecological Modelling 2019, Salzburg, Austria.

Dawson, S., A. B. Duthie, M. Gonzalez-Suarez, M. Jönsson, C. Pérez Carmona, F. Chichorro de Carvalho, M. Mallen-Cooper, Y. Melero, H. Moor, and J. Simaika. 2019. A survey on the interpretation and application of the terms 'trait' and 'functional trait' among ecologists. **Ecological Society of America 2019**, Louisville, Kentucky, USA.

†Duthie, A. B., J. J. Cusack, O. S. Rakotonarivo, and N. Bunnefeld. 2019. Generalised Management Strategy Evaluation: modelling biodiversity and food security. **Centre for Biodiversity Dynamics Seminar** at the Norwegian University of Science and Technology, Trondheim, Norway.

Duthie, A. B. 2018. Ecological inference from functional traits. **Fifth European Congress of Conservation Biology** in Jyväskylä, Finland.

†Duthie, A. B. 2018. When, why, and how to avoid, prefer, or tolerate inbreeding. **Institute of Evolutionary Biology Seminar** at the University of Edinburgh, Edinburgh, Scotland.

†Duthie, A. B. 2017. GMSE: a general tool for management strategy evaluation. **Mathematics and Statistics Group Seminar** at the University of Stirling, Stirling, Scotland.

†Duthie, A. B. 2017. Introduction to genetic algorithms, and their potential to link complex games to real-world behaviour in conservation conflicts. **Workshop: "Behavioural games and conflict"** at Grimsö Wildlife Research Station, Grimsö, Sweden.

- **Duthie, A. B.,** G. Bocedi, and J. M. Reid. 2015. Evolution of polyandry and inbreeding avoidance: a genetically-explicit finite population model. **Population Genetics Group Meeting 49** at the University of Edinburgh, Edinburgh, Scotland.
- **Duthie, A. B.,** G. Bocedi, and J. M. Reid. 2015. Should females mate multiply to avoid inbreeding? Insights from a computational modelling approach. **The Scottish Informatics and Computer Science Alliance (SICSA) workshop on Computational Ecology** at the University of Edinburgh, Edinburgh, Scotland.
- **Duthie, A. B.** and J. M. Reid. 2014. Evolution of inbreeding and inbreeding avoidance among multiple relatives. **Workshop: "Evolution of Mating Systems"** at the Konnevesi Research Station of the University of Jyväskylä, Konnevesi, Finland.
- **Duthie, A. B.,** Lim*, C., and J. D. Nason. 2013. The effects of life history characteristics on male dimorphism frequency in two species of non-pollinating fig wasps. **Ento '13 International Symposium and Annual National Science Meeting** at the University of Saint Andrews, Saint Andrews, Scotland.
- **Duthie, A. B.,** K. C. Abbott, and J. D. Nason. 2013. A fluctuating environment drives coexistence in five non-pollinating fig wasps. **XIV Conference of the European Society for Evolutionary Biology** at the University of Lisbon, Lisbon, Portugal.
- Lim*, C., A. B. Duthie, and J. D. Nason. 2012. Violence inside the fig: Sexual selection among two species of non-pollinating male fig wasps. Symposium on Undergraduate Research and Creative Expression at Iowa State University, Ames, Iowa.
- **Duthie, A. B.,** K. C. Abbott, and J. D. Nason. 2012. Does the storage effect maintain coexistence in non-pollinating fig wasp communities? **Nineteenth Annual GREBE Spring Symposium** at Iowa State University, Ames, Iowa.
- **Duthie**, **A. B.** 2010. Turn-taking in habitat patch selection can be evolutionarily stable. **Midwest Ecology and Evolution Conference** at Iowa State University, Ames, Iowa.
- Day, K., A. B. Duthie, and J. D. Nason. 2009. Cryptic parasites and their effects on the fitness and evolutionary stability of the fig-pollinator mutualism. Evolution at the University of Idaho, Moscow, Idaho.
- **Duthie, A. B.** and M. Falcy. 2009. Spatial heterogeneity promotes coexistence in a mutualist/exploiter community. **Sixteenth Annual GREBE Spring Symposium** at Iowa State University, Ames, Iowa.
- **Duthie, A. B.** and J. D. Nason. 2008. Dynamics of a Sonoran fig wasp community: A graphical modeling approach. **Evolution** at the University of Minnesota, Minnesota.
- **Duthie, A. B.** and J. D. Nason. 2008. Graphical modeling and the community dynamics of a sonoran desert fig, its pollinator, and exploiter wasps. **Fifteenth Annual GREBE Spring Symposium** at Iowa State University, Ames, Iowa.
- **Duthie, A. B.** and M. Smith. 2007. Environmental effects on achenes of *Boltonia decurrens*, a threatened floodplain species: Age, mass, germination, and viability. **Illinois State Academy of Sciences Annual Meeting** at the Illinois State Museum, Springfield, Illinois.
- **Duthie, A. B.**. 2006. This brain owns itself: How things like us project a unified agent **First Annual Undergraduate Philosophy Conference** at Southern Illinois University Edwardsville, Edwardsville, Illinois.

Posters

Duthie, A. B. 2021. Videogames as virtual laboratories for collecting decision-making data to understand challenging social-ecological problems. **Ecology Across Borders:** Joint British Ecological Society and French Society for Ecology and Evolution, Liverpool, England (virtual attendance and eposter).

Duthie, **A. B.** 2019. Component response rate variation underlies the stability of complex systems. **International Society for Ecological Modelling 2019**, Salzburg, Austria.

Duthie, A. B., and J. M. Reid. 2015. The effect of relatedness structure and sexual conflict on the evolution of inbreeding avoidance and preference **XV Conference of the European Society for Evolutionary Biology** in Lausanne, Switzerland.

Duthie, A. B., K. C. Abbott, and J. D. Nason. 2012. Does the storage effect maintain coexistence in non-pollinating fig wasp communities? **Evolution** in Ottawa, Canada.

Duthie, A. B., K. C. Abbott, and J. D. Nason. 2011. Coexistence in fig wasp communities: A lottery model. **Workshop 5: Coevolution and the ecological structure of plant-insect communities** at the Mathematical Biosciences Institute in Columbus, Ohio.

Duthie, A. B., and M. R. Falcy. 2011. Spatial heterogeneity promotes coexistence in a mutual-ist/exploiter community. **Workshop 5: Coevolution and the ecological structure of plant-insect communities** at the Mathematical Biosciences Institute in Columbus, Ohio.

Selected Awards

University of Stirling Recognising and Advancing Teaching Excellence (RATE): Fantastic Feedback Award winner (2022)

University of Stirling Recognising and Advancing Teaching Excellence (RATE): Excellence in Teaching in the Faculty of Natural Sciences Award honourable mention (2022);

Iowa State University Teaching Excellence Award (top 10% of TAs; 2010)

Donal G. Myer Outstanding Student Award (SIUE; awarded to one science student; 2007)

Ober Honours Award in Philosophy (SIUE; awarded to one philosophy student; 2007)

Phi Kappa Phi (Collegiate Honour Society; 2006)

Chancellor's Scholarship (SIUE; full tuition for undergraduate education; 2003-2007)

Professional Affiliations

British Ecological Society

Association for the Study of Animal Behaviour