

ALYNN MARIE MARTIN

Assistant Professor of Wildlife Disease Ecology & Epidemiology • Caesar Kleberg Wildlife Research Institute
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Expertise: Wildlife disease, wildlife monitoring and management, disease mitigation, conservation, population genetics, genomics, spatial ecology, ecological modelling, inter-agency collaboration, research dissemination

ACADEMIC QUALIFICATIONS & RESEARCH EXPERIENCE

- 2014–2018 **PhD** | awarded 2019 | Zoology
University of Tasmania – School of Natural Sciences, Hobart, TAS, Australia
Supervisor: Dr. Scott Carver
Thesis title: Impacts and control of sarcoptic mange in bare-nosed wombats (*Vombatus ursinus*)
- 2011–2014 **MSc** | awarded 2014 | Biology | GPA: 3.89
Grand Valley State University – Department of Biology, Allendale, MI, United States
Supervisor: Dr. Amy L. Russell
Thesis title: Historical demography and dispersal patterns in the tricolored bat (*Perimyotis subflavus*)
- 2007–2011 **BSc** | awarded 2011 | Biology major, English minor | GPA: 3.65, *cum laude*
John Carroll University – Department of Biology, University Heights, OH, United States

PROFESSIONAL EXPERIENCE

- Jan 2023–
Present **Assistant Professor of Wildlife Disease Ecology and Epidemiology**
Caesar Kleberg Wildlife Research Institute
Department of Rangeland and Wildlife Sciences, Texas A&M University - Kingsville
- May 2021–
Dec 2023 **Mendenhall Research Fellow (19-35)** | GS12 | Series 1301
Full-time, 40 hours per week (salary \$77K)
United States Geological Survey – Northern Rocky Mountain Science Center, MT, USA
Supervisor: Dr. Paul C. Cross
- Jan 2019–
May 2021 **Research Ecologist, Postdoctoral Researcher** | GS11 | Series 0408
Full-time, 40 hours per week (salary \$62K)
United States Geological Survey – Northern Rocky Mountain Science Center, MT, USA
Supervisor: Dr. Paul C. Cross
- Jul 2018–
Dec 2019 **Research Consultant**
2 hours per week (total contract \$5k)
Contracted by The Wombat Foundation, Sydney, NSW, Australia

PUBLICATIONS

- 2023**
Acta
Chiropterologica **Martin AM**, Vonhof MJ, Henshaw M, Dreyer JM, Munster SK, Kirby L, and AL Russell. 2023. Genetic structure of the vulnerable tricolored bat (*Perimyotis subflavus*) across its eastern range. *Acta Chiropterologica* 24(2):299–314. DOI: 10.3161/15081109ACC2022.24.2.002.
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- 2022**
Journal of Wildlife
Management **Martin AM**, Hogg JT, Manlove KR, LaSharr TN, Shannon JM, McWhirter DE, Miyasaki H, Monteith KL, and PC Cross. 2022. Disease and secondary sexual traits: effects of pneumonia on horn size of bighorn sheep. *Journal of Wildlife Management*. DOI: 10.1002/jwmg.22154.
- — —
- 2021**
Oecologia Tamura J, Ingram J, **Martin AM**, Burrridge, CP, and S Carver. 2021. Contrasting population manipulations reveal resource competition between two large marsupials: bare-nosed wombats and eastern grey kangaroos. *Oecologia* DOI: 10.1007/s00442-021-04959-y.
- 2021** **Martin AM**, Cassirer EF, Waits LP, Plowright RK, Cross PC, KR Andrews. 2021. Genomic

- Ecology and Evolution association with pathogen carriage in bighorn sheep (*Ovis canadensis*). *Ecology and Evolution* 11: 2488– 2502, DOI: 10.1002/ece3.7159.
- 2021**
Soft Matter Yang PJ *et al.* 2021. Intestines of non-uniform stiffness mold the corners of wombat feces. *Soft Matter* 17: 475-488, DOI: 10.1039/D0SM01230K.
- 2021**
Parasites and Vectors Wilkinson V *et al.* 2021. Fluralaner as a novel treatment for sarcoptic mange in the bare-nosed wombat (*Vombatus ursinus*): safety, pharmacokinetics, efficacy and practicable use. *Parasites and Vectors* 14:18, DOI: 10.1186/s13071-020-04500-9.
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- 2020**
Australian Mammalogy **Martin AM** and S Carver. 2020. Ecology and conservation of the northern hairy-nosed wombat, *Lasiornhinus krefftii*: past, present, and future. *Australian Mammalogy* 43(1): 10-21, DOI: 10.1071/AM20004.
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- 2019**
Journal of Applied Ecology **Martin AM**, Richards SA, Fraser TA, Polkinghorne A, Burr ridge CP, and S Carver. 2019. Population-scale treatment informs solutions for control of environmentally transmitted wildlife disease. *Journal of Applied Ecology* 56: 2363– 2375, DOI: 10.1111/1365-2664.13467.
- 2019**
Evolutionary Ecology **Martin AM**, Carver S, Proft K, Fraser TA, Polkinghorne A, Banks S, and CP Burr ridge. 2019. Isolation, marine transgression and translocation of the bare-nosed wombat (*Vombatus ursinus*). *Evolutionary Applications* 12: 1114– 1123, DOI: 10.1111/eva.12785.
- 2019**
Journal of Wildlife Disease Fraser TA, Holme R, **Martin AM**, Whiteley P, Montarello M, Raw C, Carver S, and A Polkinghorne. 2019. Expanded molecular typing of *Sarcoptes scabiei* provides further evidence of disease spill-over events in epidemiology of sarcoptic mange in Australian marsupials. *Journal of Wildlife Disease* 55(1): 231-237, DOI: 10.7589/2018-04-101.
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- 2018**
Australian Mammalogy **Martin AM**, Ricardo H, Tompros A, Fraser TA, Polkinghorne A, and S Carver. 2018. Burrows with resources have greater visitation and may enhance mange transmission among wombats. *Australian Mammalogy* 41(2): 287-290, DOI: 10.1071/AM18013.
- 2018**
Peer J Fraser TA, Carver S, **Martin AM**, Mounsey K, Polkinghorne A, Jelocnik M. 2018. A *Sarcoptes scabiei* specific isothermal amplification assay for detection of this important ectoparasite of wombats and other animals. *PeerJ* 6:e5291, DOI: 10.7717/peerj.5291.
- 2018**
Royal Society Open Science **Martin AM**, Fraser TA, Lesku JA, Simpson K, Roberts GL, Garvey J, Polkinghorne A, Burr ridge CP, and S Carver. 2018. The cascading consequences of *Sarcoptes scabiei* infection that manifest in host disease. *Royal Society Open Science* 4(5) DOI: 10.1098/rsos.180018.
- 2018**
Veterinary Parasitology Fraser T, **Martin AM**, Polkinghorne A, and S Carver. 2018. Comparative diagnostics reveals PCR assays on skin scrapings is the most reliable method to detect *Sarcoptes scabiei* infestations. *Veterinary Parasitology* 251: 119-124, DOI: 10.1016/j.vetpar.2018.01.007.
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- 2017**
BMC Evolutionary Biology Fraser T, Shao R, Fountain-Jones NM, Charleston M, **Martin AM**, Whiteley P, Holme R, Carver S, and A Polkinghorne. 2017. Mitochondrial genome sequencing reveals potential origins of the scabies mite *Sarcoptes scabiei* infesting two iconic Australian marsupials. *BMC Evolutionary Biology* 17:233, DOI: 10.1186/s12862-017-1086-9.
- 2017**
Journal of Applied Ecology **Martin AM**, Burr ridge CP, Ingram J, Fraser TA, and S Carver. 2017. Invasive pathogen drives host population collapse: effects of a travelling wave of sarcoptic mange on bare-nosed wombats. *Journal of Applied Ecology* 55(1): 331-341 doi: 10.1111/1365-2664.12968.
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- 2016**
Parasites Fraser TA, Charleston M, **Martin AM**, Polkinghorne A, and S Carver. 2016. The emergence of sarcoptic mange in Australian wildlife: A long-standing and unresolved debate. *Parasites &*

& Vectors *Vectors* 9:316, DOI: 10.1186/s13071-016-1578-2.

2015 Corthals A, **Martin AM**, Warsi OM, Woller-Skar M, Lancaster W, Russell A, and LM Dávalos.
 PLoS ONE 2015. From the Field to the Lab: Best practices for field preservation of mammalian specimens
 for molecular analysis. *PloS ONE* 10(3), DOI: 10.1371/journal.pone.0118994.

2011 Drenovsky RE, **Martin AM**, Falasco MR, and JH Richards. 2011. Comparative ecology of
 Western North *Sarcobatus baileyi* and *Sarcobatus vermiculatus* in eastern California. *Western North American*
 American *Naturalist* 71(2): 234-239, DOI: 10.3398/064.071.0210
 Naturalist

2011 Hantak M and **Martin AM**. 2011. *Plethodon cinereus* (eastern red-backed salamander) tenacity
 Herpetological and homing. *Herpetological Review Natural History* 42(4): 581-582.
 Review Natural
 History

MANUSCRIPTS IN PRESS, REVIEW, OR PREPARATION

In Review **Martin AM**, Buttke D, Raphael J, Taylor K, Ginsberg HS, and PC Cross. Deer management
 generally reduces densities of nymphal *Ixodes scapularis*, but not prevalence of *Borrelia*
burgdorferi. Under Review in *Ticks and Tick-borne Diseases*

In Review Tan WJ, Carver S, **Martin AM**, Fountain-Jones NM, Proft KM, Burrridge CP. Sex and landscape
 influence spatial genetic variation among individuals of one of the world's largest fossorial
 mammals (*Vombatus ursinus*). Under Review in *Heredity*.

DATA RELEASES

2020 Szcudronski KE, **Martin AM**, and PC Cross. 2020. Soil sample locations for chronic wasting
 disease prion surveillance in Grand Teton National Park and National Elk Refuge 2019: U.S.
 Geological Survey data release, <https://doi.org/10.5066/P9V36XG9>.

PROFESSIONAL LEADERSHIP ROLES AND WORKING GROUPS

2020–2022 Multidisciplinary Science Leadership team (MUSCLE) US Geological Survey northcentral and
 northwest regions
 2020 Disease in wild South American camelids working group (as part of Science for Nature and
 People Partnership, SNAPP)
 2016 International Student Representative of the Faculty of Science, Engineering, and Technology
 Faculty Board, University of Tasmania
 2016 Treasurer of the Postgraduate Society for Biological Sciences (PSBS), University of Tasmania
 2015 Vice president of the Postgraduate Society for Biological Sciences (PSBS), University of
 Tasmania

GRANTS, AWARDS, & SCHOLARSHIPS

2022-2024 **\$349,000 USD** North Central Climate Adaptation Science Center grant
 Co-PI, \$51,000 USD awarded to institution
 Project title: Development of a Surface-Water Index of Permanence
 (SWIPe) to assess surface-water availability for ecohydrological refugia
 2021-2022 **\$37,500 USD** United State Geological Survey Mendenhall Fellowship; per annum
 Project title: Ecological and climatic influences on human tick-borne
 illness
 2017 **\$4,000 AUD** Holsworth Wildlife Research Endowment.
 Project title: Assessing genetic health and diversity of the not-so-
 common, 'common' wombat (*Vombatus ursinus*)

2017	\$1,900 AUD	Wildlife Disease Association Australasian Sector Research Award. Project title: Understanding genetic health and diversity of wombats in-light of the increasing sarcoptic mange threat
2016	\$5,000 AUD	Holsworth Wildlife Research Endowment. Project title: Assessing genetic health and diversity of the not-so-common, 'common' wombat (<i>Vombatus ursinus</i>)
2014–2018	\$25,000 AUD	University of Tasmania International Postgraduate Research Scholarship (doctorate); per annum
2014	Performance Award	Grand Valley State Graduate Dean's Citation for Academic Excellence
2013	\$500 USD	Grand Valley State University Travel Grant. Project title: Regional Extinction Risks of the Eastern Pipistrelle Bat
2013	\$1,000 USD	Grand Valley State University Presidential Grant. Project title: Regional Extinction Risks of the Eastern Pipistrelle Bat
2012	\$750 USD	Grand Valley State University Academic Conference Fund
2012	\$2,900 USD	Bat Conservation International Student Research Grant. Project title: Analyzing population limits and gene flow in <i>Perimyotis subflavus</i> with application to white-nose conservation
2012	\$1,000 USD	Grand Valley State University Presidential Grant. Project title: Analyzing population limits and gene flow in <i>Perimyotis subflavus</i> with application to white-nose conservation
2011	\$500 USD	Grand Valley State University Academic Conference Fund. Project title: Genetic demography of <i>Perimyotis subflavus</i> reveals regional population trends
2011	Performance Award	John Carroll University Biology Student of the Year Award

TEACHING EXPERIENCE

2022	Guest Lecturer Wildlife Disease Ecology (BIOL/ENVI 494) <i>From individual to ecosystem: integrative methods for understanding wildlife disease</i> Macalester College, Saint Paul, MN, United States
2021	Guest Lecturer Infectious Disease Ecology and Spill-over (BIOM 460 and MB 560) <i>Genetics and genomics of wildlife disease</i> Montana State University, Bozeman, MT, United States
2019	Guest Lecturer Infectious Disease Ecology and Spill-over (BIOM 460 and MB 560) <i>Introduction to disease ecology: transmission dynamics</i> Montana State University, Bozeman, MT, United States
2019	Guest Lecturer Infectious Disease Ecology and Spill-over (BIOM 460 and MB 560) <i>Epidemics: case studies</i> Montana State University, Bozeman, MT, United States
2016–2018	Teaching Assistant Community ecology (KZP211) School of Natural Sciences, University of Tasmania, Hobart, TAS, Australia
2014–2018	Teaching Assistant Biology of animals (KZA161) School of Natural Sciences, University of Tasmania, Hobart, TAS, Australia
2017–2018	Teaching Assistant – Field Excursion Instructor and Coordinator School of Natural Sciences, University of Tasmania, Hobart, TAS, Australia Community ecology (KZP211) Field location: Fortescue Bay, Tasmania

- Duration: 3 days
Activities: small mammal trapping, insect identification, remote camera sensing
- 2016–2017 **Teaching Assistant – Field Excursion Instructor and Coordinator**
School of Natural Sciences, University of Tasmania, Hobart, TAS, Australia
Conservation Biology and Wildlife Management (KZA360)
Field location: Narawntapu National Park, Tasmania
Duration: 4 days
Activities: population monitoring techniques, remote disease monitoring
- 2013–2014 **Adjunct Faculty**
Department of Biology, Grand Valley State University, Allendale, MI, United States
Introduction to Biology (BIO120 and BIO121 labs)
- 2011–2013 **Research/Teaching Assistant**
Department of Biology, Grand Valley State University, Allendale, MI, United States
Introduction to Genetics (BIO375), Mammalogy (BIO412), Capstone (BIO495)

ADVISING & MENTORING EXPERIENCE

- 2021–2022 McKenna Quirk, undergraduate research. Microbiology and Immunology, Montana State University
- 2018–2019 Kotaro Takano, Master’s Student. School of Natural Sciences, University of Tasmania
- 2018 Emma Nichols, undergraduate research. School of Natural Sciences, University of Tasmania
- 2018 Renee Dodd, undergraduate research. School of Natural Sciences, University of Tasmania
- 2017 Anila Kalonia, undergraduate research. School of Natural Sciences, University of Tasmania
- 2017 Yieh Shing Tan, undergraduate research. School of Natural Sciences, University of Tasmania
- 2016 Adrianna Tompros, undergraduate research. School of Natural Sciences, University of Tasmania
- 2016 Sandon James, undergraduate research. School of Natural Sciences, University of Tasmania
- 2013 Jessica Pontow, undergraduate research. Biological Sciences, Grand Valley State University
- 2013 Laura Kirby, undergraduate research. Biological Sciences, Grand Valley State University

GREY LITERATURE

- 2018 **Martin AM** and S Carver. 2018. Research gap analysis for the Northern hairy-nosed wombat, *Lasiornhinus krefftii*. The Wombat Foundation, Sydney, NSW Australia.
- 2017 **Martin AM** and S Carver. 2017. Sarcoptic mange in Australian wildlife v2.0 fact sheet. Wildlife Health Australia (WHA), <https://www.wildlifehealthaustralia.com.au>.

PEER REVIEW

- Evolutionary Applications
- Journal of Wildlife Disease
- Perspectives in Ecology and Conservation
- International Journal for Parasitology: Parasites and Wildlife
- Journal of Applied Animal Welfare Science
- Journal of Wildlife Management and Wildlife Monographs
- International Journal of Veterinary Science and Medicine
- Research in Veterinary Science
- Australian Mammalogy

SCIENTIFIC SOCIETIES AND ASSOCIATIONS

- Society for the Study of Evolution Student Member, 2018-2019
- Ecological Society of America (ESA) Student Member, 2017-2019
- Wildlife Disease Association, Australasian Sector (WDA-A) Student Member, 2016-2018
- Australian Mammal Society (AMS) Student Representative and Member, 2016-2018

PRESENTATIONS

Oral presentations

- 2022 Martin AM, Buttke D, Ginsberg H, and PC Cross. National parks tick surveillance in the mid- and south-Atlantic. Appalachian Interstate Tick Surveillance Work Group Meeting, May 2022. Virtual (Abingdon, VA, USA).
- 2022 Martin AM. Impact of pneumonia on bighorn sheep (*Ovis canadensis*) horn size. Ecolunch Series. March 2022. U.S. Geological Survey, Northern Rocky Mountain Science Center. Virtual (Bozeman, MT, USA).
- 2021 Martin AM and PC Cross. Using *Brucella* pathogen genomics to understand dispersal and spread. Greater Yellowstone Brucellosis Research Meeting, 2021. Boise, ID, USA (virtual).
- 2020 Martin AM. Energetic and cryptic impacts of wildlife disease. Guest Seminar, Grand Valley State University, School of Biological Sciences, 2020. Virtual (Allendale, MI, USA).
- 2019 Martin AM, Cross PC, Manlove K, JT Hogg. The impact of disease on resource allocation in bighorn sheep (*Ovis canadensis*). World Mountain Ungulate Conference, 2019. Bozeman, MT, USA.
- 2017 Martin AM, Burrridge C, and S Carver. Defining the phenotype of mange disease in bare-nosed wombats (*Vombatus ursinus*). Wildlife Disease Association Australasia Sector, 2017. Falls Creek, VIC, AUS.
- 2017 Martin AM, Burrridge C, and S Carver. Defining the phenotype of mange disease in bare-nosed wombats (*Vombatus ursinus*). Ecological Societies of America, 2017. Portland, OR, USA.
- 2017 Martin AM, Burrridge C, and S Carver. Defining the phenotype of mange disease in bare-nosed wombats (*Vombatus ursinus*). Mange Working Group Meeting, Department of Primary Industries, Parks, Water and Environment, 2017. Hobart, TAS, AUS.
- 2016 Martin AM, Burrridge C, and S Carver. Impacts and control of sarcoptic mange in common wombats. Wildlife Disease Association Australasia Sector, 2016. Christchurch, NZ.
- 2015 Martin AM, Burrridge C, and S Carver. Impacts and control of sarcoptic mange in common wombats. The Annual Wombat Protection Society Conference, 2015. Canberra, ACT, AUS.
- 2013 Martin AM, Russell AL, and M Vonhof. Regional Extinction Risks of the Eastern Pipistrelle Bat. American Society of Mammalogists (ASM), 2013. Philadelphia, PA, USA.
- 2013 Martin AM, Russell AL, and M Vonhof. Regional Extinction Risks of the Eastern Pipistrelle Bat. Student Scholars Day, Grand Valley State University, 2013. Allendale, MI, USA.
- 2012 Martin AM, Dávalos L, Lancaster W, Russell AL, Woller-Skar M, and A Corthals. A Comparison of DNA Yields from Different Tissue Types and Storage Media." North American Symposium on Bat Research (NASBR), 2012. San Juan, PR.

Poster presentations

- 2019 Martin AM, Richards S, Burrridge C, S Carver. Treatment of sarcoptic mange in a wildlife population – management implications for an environmentally transmitted pathogen. Ecology and Evolution of Infectious Diseases (EEID), 2019. Princeton, NJ, USA.
- 2018 Martin AM, Burrridge C, and S Carver. Genetic structure and diversity of the not-so-common wombat (*Vombatus ursinus*). Ecological Societies of America (ESA), 2018. New Orleans, LA, USA.
- 2015 Martin AM, Burrridge C, and S Carver. Impacts and control of sarcoptic mange in common wombats. The Australian Mammal Society (AMS), 2015. Hobart, TAS, AUS.
- 2012 Martin AM, Russell AL, and M Vonhof. Genetic demography of *Perimyotis subflavus* reveals regional population trends. Student Scholars Day, Grand Valley State University, 2012. Allendale, MI, USA.
- 2011 Martin AM, Russell AL, and M Vonhof. Genetic demography of *Perimyotis subflavus* reveals regional population trends. North American Symposium on Bat Research (NASBR), 2011. Toronto, Canada.
- 2011 Martin AM, Drenovsky RE, and JH Richards. Comparison of seed traits in two *Sarcobatus* populations in eastern California. OFIC Research Symposium, 2011. Columbus, OH, USA.
- 2010 Martin AM, Drenovsky RE, and JH Richards. Comparison of seed traits in two *Sarcobatus* populations in eastern California. Botanical Society of America's (BSA), 2010. Providence, RI, USA.

PRESS RELEASE, NONTRADITIONAL RESEARCH OUTLETS, AND COMMUNITY OUTREACH

Podcasts

- January 2023. A Talk on the Wild Side, co-host.

Press release

- January 2022. The hidden cost of diseases for bighorn sheep – smaller horns. Science Snippet, US Geological Survey communications and publishing: <https://www.usgs.gov/news/science-snippet/hidden-cost-disease-bighorn-sheep-smaller-horns>.

- September 2019. Alumna part of team winning Ig Nobel prize for key discovery about wombat scat. Grand Valley State University Communications.
- September 2019. Kudos for cracking cubed poo code. University of Tasmania Communications and Media.
- July 2019. New treatment program offers hope for controlling wombat mange. University of Tasmania, Research Division.
- March 2019. Range-wide population genetic structure of wombats analyzed for the first time. University of Tasmania News.
- April 2018. Fight against wombat mange. University of Tasmania News.

Documentaries and film production

- Blink Films Television Series: The Secret life of Wombats. 2016.
- NHK Enterprises: Nature Wonder Land series, Rear End Defense. 2015.
- BBC Documentary: Combating fatal mange among Australia's wombats. 2015.
<http://www.bbc.com/news/world-australia-33549928>

Community presentations

- Bozeman 500 Women Scientist presenter in the “Suds N Science” series. “Impacts and control of sarcoptic mange in wombats.” Bozeman, MT. 2019.
- U.S. Geological Survey Northern Rocky Mountain Science Center Ecolunch series presenter. “Impacts and control of sarcoptic mange in wombats.” Bozeman, MT. 2019.
- Georgetown Primary School. “Introduction to wombats and mange.” Georgetown, TAS. 2018.
- Sassafras Primary School. “Mange, wombats and burrow flaps.” Narawntapu National Park, TAS. 2015.
- Science in the Pub Panellist: Cute, Cuddly and Dying: Challenges in Wildlife Disease Ecology. “Mange in Wombats.” Hobart, TAS. 2015.
- Fahan Primary School. “How do burrow flaps work?” University of Tasmania, TAS. 2015.

Media outreach

- 2020 Content creator for the Bozeman Disease Ecology Lab Facebook outlet with COVID-19 focus
- 2019 *Online media*: ABC News, University of Tasmania media
- 2018 *Newspaper*: The Mercury (Tasmania, AUS), The Examiner (Tasmania, AUS); *online media*: ABC News, University of Tasmania media
- 2017 *Online media*: ABC News (AUS)
- 2016 *Newspaper*: The Mercury (Tasmania, AUS)
- 2015 *Newspaper*: The Mercury (Tasmania, AUS); *online media*: ABC News

RELEVANT TRAINING

- Genomics of Disease in Wildlife (GDW) workshop attendee, Fort Collins, CO, USA. 2021
- Raptor rehabilitation volunteer at the Montana Raptor Conservation Center, 2019-2021
- Tick identification and techniques workshop, U.S. National Tick Collection at Georgia Southern University 2019
- Introduction to community data analysis in R using package Vegan, Ecological Societies of America 2018
- Managing ecological data for effective use and reuse, Ecological Societies of America 2018
- Epidemics – the dynamics of infectious disease, The Pennsylvania State University (online) 2018
- Modelling infectious disease dynamics in R, Ecological Societies of America 2017
- Models in R with the ‘mgcv’ package, Ecological Societies of America 2017
- Introduction to bioinformatics, University of Tasmania 2016
- Applied quantitative methods, Grand Valley State University 2012
- Molecular ecology, Grand Valley State University 2012
- Population genetics, Grand Valley State University 2011