

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, ecological modelling, inter-agency collaboration, research dissemination

ACADEMIC QUALIFICATIONS

- 2014–2018 **PhD** | awarded August 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 April 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 May 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, Texas A&M University-Kingsville (TAMUK)
Supervisor: Dr. David Hewitt
- May 2021–
Dec 2022 **Mendenhall Research Fellow (19-35)**
United States Geological Survey – Northern Rocky Mountain Science Center, MT, USA
Supervisor: Dr. Paul C. Cross | GS12 | Series 1301
- Jan 2019–
May 2021 **Research Ecologist, Postdoctoral Researcher**
United States Geological Survey – Northern Rocky Mountain Science Center, MT, USA
Supervisor: Dr. Paul C. Cross | GS11 | Series 0408
- Jul 2018–
Dec 2019 **Research Consultant**
Contracted by The Wombat Foundation, Sydney, NSW, Australia

PUBLICATIONS

In Press
J. Mammal Tan WJ, Carver S, **Martin AM**, Fountain-Jones NM, Proft KM, Burridge CP. *In Press*. Sex and landscape influence spatial genetic variation in a large fossorial mammal, the Common Wombat (*Vombatus ursinus*). *Journal of Mammalogy* DOI: forthcoming.

2024
Front. Ecol.
Environ. Thurman, LL et al. 2024. Disease-smart climate adaptation for wildlife management and conservation. *Frontiers in Ecology and the Environment* DOI: 10.1002/fee.2716.

2024
Annu. Rev.
Anim. Biosci. Carver S, Stannard GL, **AM Martin**. 2024. The Distinctive Biology and Characteristics of the Bare-Nosed Wombat (*Vombatus ursinus*). Online preprint with *Annual Review of Animal Biosciences* DOI: 10.1146/annurev-animal-021022-042133.

2023
Ticks and
Tick Borne
Dis. **Martin AM**, Buttke D, Raphael J, Taylor K, Maes S, Parise CM, Ginsberg HS, PC Cross. 2023. Deer management generally reduces densities of nymphal *Ixodes scapularis*, but not prevalence of infection with *Borrelia burgdorferi* sensu stricto. *Ticks and Tick-borne Diseases* DOI: 10.1016/j.ttbdis.2023.102202.

- 2023**
J. Anim.
Ecol. Ringwaldt EM, Brook BW, Buettel JC, Cunningham CX, Fuller C, Gardiner R, Hamer R, Jones M, **Martin AM**, S Carver. 2023. Host, environment, and anthropogenic factors drive landscape dynamics of an environmentally transmitted pathogen: Sarcoptic mange in the bare-nosed wombat. *Journal of Animal Ecology* DOI: 10.1111/1365-2656.13960.
- 2023**
Acta
Chiropterol. **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. (20)
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- 2022**
J. Wildl.
Manage. **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.
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- 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**
Ecol. Evol. **Martin AM**, Cassirer EF, Waits LP, Plowright RK, Cross PC, KR Andrews. 2021. Genomic 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. (15)
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- 2020**
Aust.
Mammal. **Martin AM** and S Carver. 2020. Ecology and conservation of the northern hairy-nosed wombat, *Lasiorhinus krefftii*: past, present, and future. *Australian Mammalogy* 43(1): 10-21, DOI: 10.1071/AM20004.
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- 2019**
J. Appl.
Ecol. **Martin AM**, Richards SA, Fraser TA, Polkinghorne A, Burrridge 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**
Evol.
Appl. **Martin AM**, Carver S, Proft K, Fraser TA, Polkinghorne A, Banks S, and CP Burrridge. 2019. Isolation, marine transgression and translocation of the bare-nosed wombat (*Vombatus ursinus*). *Evolutionary Applications* 12: 1114– 1123, DOI: 10.1111/eva.12785.
- 2019**
J. Wildl.
Dis. 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**
Aust.
Mammal. **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. (10)
- 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** **Martin AM**, Fraser TA, Lesku JA, Simpson K, Roberts GL, Garvey J, Polkinghorne A, Burrridge CP,

- Royal Soc. Open Sci. 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** 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** 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** **Martin AM**, Burridge 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** 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* 9:316, DOI: 10.1186/s13071-016-1578-2.
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- 2015** Corthals A, **Martin AM**, Warsi OM, Woller-Skar M, Lancaster W, Russell A, and LM Dávalos. 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.
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- 2011** Drenovsky RE, **Martin AM**, Falasco MR, and JH Richards. 2011. Comparative ecology of *Sarcobatus baileyi* and *Sarcobatus vermiculatus* in eastern California. *Western North American Naturalist* 71(2): 234-239, DOI: 10.3398/064.071.0210.
- 2011** Hantak M and **Martin AM**. 2011. *Plethodon cinereus* (eastern red-backed salamander) tenacity and homing. *Herpetological Review Natural History* 42(4): 581-582.
- Herpetol. Rev. Nat. Hist.

MANUSCRIPTS IN REVIEW OR PREPARATION

No active manuscripts in review.

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

2024-2028	\$809,362 USD	Texas Parks and Wildlife Department Project title: Davis Mountain cottontail population assessment and risk management for rabbit haemorrhagic disease
2024-2026	\$539,885 USD	Richard K. Mellon Foundation Project title: National CWD Epidemiological Assessment

2024-2027	\$434,024 USD	Kleberg Foundation Project title: Infectious Disease Surveillance in Wildlife Species Across South Texas
2023–	\$240,000 USD	Gift from Rachel and Ben Vaughan Foundation
2023–	\$60,000 USD	Gift from South Texas Quail Coalition
2023-2024	\$335,553 USD	Department of Energy Project title: South Texas DAC Hub project
2023-2028	\$12,214,430 USD	US Fish and Wildlife Service. Project title: South Texas Endangered Ocelot Protection and Recovery Program
2023-2025	\$2,348,270 USD	US Department of Agriculture - Animal and Plant Health Inspection Service SARS-CoV-2 American Rescue Plan Project title: Surveillance of SARS-CoV-2 in wild and domestic animal populations in Central and South Texas
2023-2026	\$288,000 USD	FONDECYT (Chile) Project title: Healthy and productive ecosystems: the role of diverse scavenger community for extensive livestock production in Patagonia
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 (<i>Vombatus ursinus</i>)
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

2023	Lecturer
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- Wildlife Disease (WSCI6397, undergraduate)
Texas A&M University – Kingsville, Kingsville, TX, United States
- 2023 **Guest Lecturer**
Endangered Species Conservation (RWSC3390)
*Conservation status of the northern Hairy-nosed wombat (*Lasiorhinus krefftii*)*
Texas A&M University-Kingsville, Kingsville, TX, United States
- 2022 **Guest Lecturer**
Wildlife Disease Ecology (BIOL/ENVI494, undergraduate)
From individual to ecosystem: integrative methods for understanding wildlife disease
Macalester College, Saint Paul, MN, United States
- 2021 **Guest Lecturer**
Infectious Disease Ecology and Spill-over (BIOM460 and MB560, undergraduate)
Genetics and genomics of wildlife disease
Montana State University, Bozeman, MT, United States
- 2019 **Guest Lecturer**
Infectious Disease Ecology and Spill-over (BIOM460 and MB560, undergraduate)
Introduction to disease ecology: transmission dynamics
Montana State University, Bozeman, MT, United States
- 2019 **Guest Lecturer**
Infectious Disease Ecology and Spill-over (BIOM460 and MB560, undergraduate)
Epidemics: case studies
Montana State University, Bozeman, MT, United States
- 2016–2018 **Teaching Assistant**
Community ecology (KZP211, undergraduate)
School of Natural Sciences, University of Tasmania, Hobart, TAS, Australia
- 2014–2018 **Teaching Assistant**
Biology of animals (KZA161, undergraduate)
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, undergraduate)
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, undergraduate)
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, undergraduate)
- 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

- 2024– Avantika D’Cruz, Master’s Student. Dept. of Range and Wildlife Sciences, TAMUK
- 2024– Rachel Walters, Master’s Student. Dept. of Range and Wildlife Sciences, TAMUK
- 2024– Liza Soliz, PhD Candidate. Dept. of Range and Wildlife Sciences, TAMUK
- 2023– Tiffany Pope, PhD Candidate. Dept. of Range and Wildlife Sciences, TAMUK

2023–	Kendall Bancroft, Master’s Student. Dept. of Range and Wildlife Sciences, TAMUK
2023–	Alexandria Hiott, Master’s Student. Dept. of Range and Wildlife Sciences TAMUK
2023–	Javier Segovia, Master’s Student. Dept. of Range and Wildlife Sciences, TAMUK
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 & REPORTS

2023	Martin AM , et al. Addressing the impacts of sarcoptic mange in wild South American camelids across a landscape of myths and legends. Report from the Wildlife Conservation Society.
2023	Martin AM , Sando R, Thurman L, McLean K, Wurster P, Jones J, and A Sarbanes. 2023. Development of a Surface-Water Index of Permanence to assess surface-water availability for ecohydrological refugia. Fact Sheet, DOI: 10.3133/fs20233045.
2018	Martin AM and S Carver. 2018. Research gap analysis for the Northern hairy-nosed wombat, <i>Lasiorhinus krefftii</i> . 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 .

DATA RELEASES

2023	Martin AM , Buttke D, Raphael J, Ginsberg HS, and PC Cross. 2023. Blacklegged tick nymph densities, tickborne pathogen prevalence, and white-tailed deer densities in eight national parks in the eastern United States from 2014 to 2022. U.S. Geological Survey data release, https://doi.org/10.5066/P9LSI8K9 .
2020	Szcodronski 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 .

POPULAR ARTICLES

2023	Martin AM . 2023. Wildlife disease in South Texas: Conservation perspectives and threats in a unique region. <i>Caesar Kleberg Tracks Spring 2023</i> , Caesar Kleberg Wildlife Research Institute.
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PEER REVIEW

- Epidemics
- 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 (CURRENT)

- **The Wildlife Society:** Texas Chapter Member; Southwest Section member; Molecular Ecology Working group member; Wildlife Disease working group member; Wildlife Toxicology working group member
- **Wildlife Disease Association:** Australasian Section member; Latin American Section Member
- American Association of Veterinary Parasitologists

PRESENTATIONS

Select oral presentations

- 2024 Barrett M, et al. Genetic Structure and Variation of Wild Turkey in Oklahoma. 60th Annual Texas Chapter of The Wildlife Society Meeting, February 2024. Houston, TX, USA.
- 2024 Henke SE, Rideout-Hanzak S, Hernandez F, Martin AM, and DB Wester. Do ethnicity and sex influence students' choice of career? Hawaii International Conference on Education, January 2024. Kona, HI, USA.
- 2023 Sando R, Wurster P, Thurman L, Martin AM, McClean K, Jones J, Sarbanes A and E Poor. Development of a Surface-Water Index of Permanence (SWIPe) to assess surface-water availability for ecohydrological refugia in the upper Missouri River basin. Montana Chapter of the American Water Resource Association, October 2023. Missoula, MT, USA.
- 2023 Martin AM. Infectious diseases of White-tailed Deer in grassland ecosystems. The 24th Annual Binational Seminar on White-tailed Deer, October 2023. Monterrey, Nuevo Leon, MX.
- 2023 Martin AM. Wildlife Disease Program. Caesar Kleberg Wildlife Institute Partners Meeting, September 2023. Austin, TX, USA.
- 2023 Martin AM. From individual to ecosystem: integrative methods for understanding and managing wildlife disease. Caesar Kleberg Wildlife Institute Advisory Board meeting, February 2023. Kingsville, TX, USA.
- 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. Abingdon, VA, USA (virtual).
- 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. Bozeman, MT, USA (virtual).
- 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. Allendale, MI, USA (virtual).
- 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, Burridge 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, Burridge 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, Burridge 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, Burridge C, and S Carver. Impacts and control of sarcoptic mange in common wombats. Wildlife Disease Association Australasia Sector, 2016. Christchurch, NZ.
- 2015 Martin AM, Burridge 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.

Select poster presentations

- 2024 Pope T, Martin AM, and A Reeves. Assessment of parasitism and associated pathogen prevalence in free-ranging felid populations in southern Texas. 60th Annual Meeting of the Texas Chapter of The Wildlife Society, February 2024. Houston, TX, USA.

- 2024 Walters R, Henke SE, Rideout-Hanzak S, and AM Martin. Assessing prescribed burns for tick control in coastal marsh and prairie ecoregion of Southern Texas. 60th Annual Meeting of the Texas Chapter of The Wildlife Society, February 2024. Houston, TX, USA.
- 2024 Aguilar S, Ramirez G, Rotondi C, Benn J, Henke SE, and AM Martin. Wildlife disease research in Texas: Trends over the past three decades. 60th Annual Meeting of the Texas Chapter of The Wildlife Society, February 2024. Houston, TX, USA.
- 2024 Bancroft KL, et al. Prevalence and physiological impacts of toxoplasmosis in South Texas white-tailed deer. 60th Annual Meeting of the Texas Chapter of The Wildlife Society, February 2024. Houston, TX, USA.
- 2023 Botswick T, DeYoung R, Martin AM, Reeves A, L Petracca. Current genetic status of severely isolated ocelot populations in South Texas. The Wildlife Society, November 2023. Louisville, KY.
- 2023 Hediger JA et al. Investigating a novel approach to CWD management. Wildlife Disease Association Conference, August 2023. Athens, GA, USA.
- 2023 Hediger JA *et al.* Investigating potential inhibitory roles of organic copper and zinc in CWD prion protein misfolding and propagation. CWD Symposium, May 2023. Denver, CO, USA.
- 2019 Martin AM, Richards S, Burrige 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, Burrige 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, Burrige 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 – Present. A Talk on the Wild Side Podcast, co-host. Available at:

<https://podcasts.apple.com/us/podcast/a-talk-on-the-wild-side/id1572319399>

- S3E13, 02-Jan-2024 – Secrets of the Cave Salamanders! Guest(s): Dr. N Cagle, A White, and R Kuczek
- S3E11, 13-Dec-2023 – Sky High Wildlife Research Using Drones! Guest: Dr. D Saunders
- S3E10, 29-Nov-2023 – Dragons and Damsels that Fly! Guest: W Brown
- S3E09, 07-Nov-2023 – Monkeys in Texas? Snow Way! Guest(s): S Bird and L Griffin
- S3E08, 25-Oct-2023 – You Better Strike on This Sharelunker Episode! Guest: N Goldstrohm
- S3E07, 10-Oct-2023 – Oh Deer! Hunting Season is Almost Here! Guest: J Dykes
- S3E06, 26-Sep-2023 – Finding Homies with Scales; The Search for Spot-tailed earless lizards! Guest: D Rangel
- S3E04, 29-Aug-2023 – Even Wildlife Rescue is Bigger in Texas! Guest: Dr. C Ullmer
- S3E03, 15-Aug-2023 – Dinosaurs in Texas? That Tracks! Guest: Z Riggs
- S3E02, 01-Aug-2023 – This Episode is for People Who Love Birds! Guest: D. Belleny
- S3E01, 18-Jul-2023 – Sneak Beak into Aplomado Falcons! Guest: B Mutch
- S2E28, 20-Jun-2023 – Oh Captain, My Caption! Guest: Captain C Naiser
- S2E27, 06-Jun-2023 – We Can't Help but Carrion about Scavengers! Guest: Dr. S Leivers
- S2E26, 23-May-2023 – Why Did the Ocelot Cross the Road? Guest: Dr. J Young.
- S2E24, 25-Apr-2023 – It Takes a Little Mussel to Withstand Extreme Weather! Guest: A Tarter
- S2E23, 11-Apr-2023 – Keeping the Stars at Night Big and Bright! Guest: S Hummel
- S2E21, 14-Mar-2023 – Chill Out While We Simplify Climate Complexity! Guest: Dr. J Nielsen-Gammon
- S2E20, 28-Feb-2023 – Don't Overextend Yourself! The Extension Specialist is Here! Guest: Dr. S Hines

- S2E19, 14-Feb-2023 – There’s No Such Thing as TMI about TBI! Guest: Dr. A Martin
- S2E18, 31-Jan-2023 – Foraging Texas: Eat the Wild Plants! Guest: Dr. M Vorderbruggen

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

- Association of College and University Educators Course: Effective Teaching Practices, online Cohort D, Fall 2023 to Spring 2024
- 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