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INTERESTS

wildlife disease ecology · epidemiology · phylogenetics · statistical modeling · population genetics · molecular biology

EDUCATION

2015-2020	PhD in Ecology Colorado State University · Fort Collins, CO
	Advisor: Prof Colleen Webb
2013-2015	MS in Ecology Colorado State University · Fort Collins, CO
	Advisor: Prof Colleen Webb
2007-2011	BS in Ecology & BA in Environmental Studies University of Pittsburgh · Pittsburgh, PA

PROFESSIONAL EXPERIENCE

2020-	Johns Hopkins University Postdoctoral Fellow · Baltimore, MD
	Supervisor: Dr Emily Gurley
2015 & 2019	Colorado State University Research Assistant · Fort Collins, CO
	Supervisor: Prof Colleen Webb
2014-2019	CDC Division of Vector-Borne Diseases Guest Researcher · Fort Collins, CO
	Supervisor: Dr Michael Kosoy
2015-2017	CDC Division of Vector-Borne Diseases Regular Fellow · Fort Collins, CO
	Supervisor: Dr Michael Kosoy
2010 & 2013	Emory University Field Assistant & Field Research Specialist · Atlanta, GA
	PI: Prof Donna Maney
2011-2013	WL Gore & Associates Laboratory Technician · Newark, DE
2011	University of California, Santa Cruz Field Technician · Santa Cruz, CA
	PI: Prof Marm Kilpatrick

others do not? PLoS Biology. 2022;20(5):e3001652.

PUBLICATIONS

†Equal contribution

2022	Kejikova R, McKee C , Strakova P, Sikutova S, Mendel J, Rudolf I. First detection of <i>Bartonella</i> spp. in bat bugs <i>Cimex pipistrelli</i> (Hemiptera: Cimicidae), Central Europe. textcolorspecialParasitology Research. 2022;121:3341-3345.
2022	Seidlova V, Strakova P, Kejikova R, Nemcova M, Bartonicka T, Salqt, Dufkova L, Sikutova S, Mendel J, McKee C ,
	Zukal J, Pikula J, Rudolf I. Detection of <i>Leptospira species</i> in bat cadavers, Czech and Slovak Republics. Emerg-
	ing Microbes & Infections. 2022;11(1):2211-2213.
2022	Goodrich I, McKee C, Margos G, Kosoy M. Molecular characterization of a novel relapsing fever Borrelia
	species from the desert cottontail (Sylvilagus audubonii) in New Mexico, USA. Journal of Wildlife Diseases.
	2022;58(3):646-651.
2022	$\textbf{McKee CD}^{\dagger}, Islam A^{\dagger}, Rahman MZ, Khan SU, Rahman M, Satter SM, Islam A, Yinda CK, Epstein JH, Daszak P, Man SM, Man $
	Munster VJ, Hudson PJ, Plowright RK, Luby SP, Gurley ES. Nipah virus detection at bat roosts after spillover
	events, Bangladesh, 2012–2019. Emerging Infectious Diseases. 2022;28(7):1384-1392.
2022	Rice BL^{\dagger} , Lessler J^{\dagger} , McKee C^{\dagger} , Metcalf CJE^{\dagger} . Why do some coronaviruses become pandemic threats when

- PUBLICATIONS (CONTINUED) 2022 Ruiz-Aravena M[†], **McKee C**[†], Gamble A, Lunn T, Morris A, Snedden CE, Yinda CK, Port JR, Buchholz DW, Yeo YY, Faust C, Jax E, Dee L, Jones DN, Kessler MK, Falvo C, Crowley D, Bharti N, Brook CE, Aguilar HC, Peel AJ, Restif O, Schountz T, Parrish CR, Gurley ES, Lloyd-Smith JO, Hudson PJ, Munster VJ, Plowright RK. Ecology, evolution and spillover of coronaviruses from bats. Nature Reviews Microbiology. 2022;20:299-314. 2022 Redd AD, Peetluk LS, Jarrett BA, Hanrahan C, Schwartz S, Rao A, Jaffe AE, Peer AD, Jones CB, Lutz CS, McKee CD, Patel EU, Rosen JG, Garrison Desany H, McKay HS, Muschelli J, Andersen KM, Link MA, Wada N, Baral P, Young R, Boon D, Grabowski MK, Gurley ES, the Novel Coronavirus Research Compendium Team. Curating the evidence about COVID-19 for frontline public health and clinical care: the Novel Coronavirus Research Compendium. Public Health Reports. 2022;137(2):197-202. 2021 Islam A, McKee C, Ghosh PK, Abedin J, Epstein JH, Daszak P, Luby SP, Khan SU, Gurley ES. Seasonality of date palm sap feeding behavior by bats in Bangladesh. EcoHealth. 2021;18:359-71. 2021 Zorrilla VO, Lozano ME, Espada LJ, Kosoy M, **McKee C**, Valdivia HO, Arevalo H, Troyes M, Stoops CA, Fisher ML, Vásquez GM. Comparison of sand fly trapping approaches for vector surveillance of Leishmania and Bartonella species in ecologically distinct, endemic regions of Peru. PLoS Neglected Tropical Diseases. 2021;15(7):e0009517. 2021 McKee CD, Islam A, Luby SP, Salje H, Hudson PJ, Plowright RK, Gurley ES. The ecology of Nipah virus in Bangladesh: a nexus of land-use change and opportunistic feeding behavior in bats. Viruses. 2021;13(2):169. 2021 McKee C, Bai Y, Webb C, Kosoy M. Bats are key hosts in the radiation of mammal-associated Bartonella bac-
- McKee C, Bai Y, Webb C, Kosoy M. Bats are key hosts in the radiation of mammal-associated *Bartonella* bacteria. Infection, Genetics and Evolution. 2021;89:104719.
- Goodrich I, **McKee C**, Kosoy M. *Trypanosoma* (*Herpetosoma*) diversity in rodents and lagomorphs of New Mexico with a focus on epizootological aspects of infection in Southern Plains woodrats (*Neotoma micropus*). PLoS ONE. 2020;15(12):e0244803.
- Rudolf I, Blazejova H, Mendel J, Strakova P, Sebesta O, Rettich F, Cabanova V, Miterpakova M, Betasova L, Pesko J, Barbusinova E, **McKee C**, Osikowicz L, Sikutova S, Hubalek Z, Kosoy M. 2020. *Bartonella* species in medically important mosquitoes, Central Europe. Parasitology Research. 2020;119(8):2713-7.
- Goodrich I, **McKee C**, Kosoy M. Longitudinal study of bacterial infectious agents in a community of small mammals in New Mexico. Vector-Borne and Zoonotic Diseases. 2020;20(7):496-508.
- 2019 McKee CD, Krawczyk AI, Sandor AD, Gorfol T, Foldvari M, Foldvari G, Dekeukeleire D, Haarsma A-J, Kosoy MY, Webb CT, Sprong H. Host phylogeny, geographic overlap, and roost sharing shape parasite communities in European bats. Frontiers in Ecology and Evolution. 2019;7:69.
- Bai Y, Osinubi MOV, Osikowicz L, **McKee C**, Vora NM, Rizzo MR, Recuenco S, Davis L, Niezgoda M, Ehimiyein AM, Kia GSN, Oyemakinde A, Adeniyi OS, Gbadegesin YH, Saliman OA, Ogunniyi A, Ogunkoya AB, Kosoy MY, Idanre Bat Festival Investigation Team. Human exposure to novel *Bartonella* species from contact with fruit bats. Emerging Infectious Diseases. 2018;24(12):2317-23.
- Kellner A, Carver S, Scorza V, **McKee CD**, Lappin M, Crooks KR, VandeWoude S, Antolin MF. Transmission pathways and spillover of an erythrocytic bacterial pathogen from domestic cats to wild felids. Ecology and Evolution. 2018;8(19):9779-92.
- 2018 McKee CD, Osikowicz LM, Schwedhelm TR, Maes SE, Enscore RE, Gage KL, Kosoy MY. Acquisition of *Bartonella elizabethae* by experimentally exposed Oriental rat fleas (*Xenopsylla cheopis*; Siphonaptera, Pulicidae) and excretion of bartonella DNA in flea feces. Journal of Medical Entomology. 2018;55(5):1292-1298.
- 2018 Kosoy M^{\dagger} , McKee C^{\dagger} , Albayrak L, Fofanov Y. Genotyping of *Bartonella* bacteria and their animal hosts: current status and perspectives. Parasitology. 2018;145(5):543-62.
- Gorsich EE, McKee CD, Grear DA, Miller RS, Portacci K, Lindstrom T, Webb CT. Model-guided suggestions for targeted surveillance based on cattle shipments in the US. Preventive Veterinary Medicine. 2018;150:52-9.
- 2018 McKee CD, Osikowicz LM, Schwedhelm TR, Bai Y, Castle KT, Kosoy MY. Survey of parasitic bacteria in bat bugs, Colorado. Journal of Medical Entomology. 2018;55(1):237-41.
- McKee CD, Kosoy MY, Bai Y, Osikowicz LM, Franka R, Gilbert AT, Boonmar S, Rupprecht CE, Peruski LF. Diversity and phylogenetic relationships among *Bartonella* strains from Thai bats. PLoS ONE. 2017;12(7):e0181696.
- Urushadze L, Bai Y, Osikowicz L, **McKee C**, Sidamonidze K, Putkaradze D, Imnadze P, Kandaurov A, Kuzmin I, Kosoy M. Prevalence, diversity, and host associations of *Bartonella* strains in bats from Georgia (Caucasus). PLoS Neglected Tropical Diseases. 2017;11(4):e0005428.

PUBLICATIONS (CONTINUED)

2017	Bai Y, Urushadze L, Osikowicz L, McKee C , Kuzmin I, Kandaurov A, Babuadze G, Natradze I, Imnadze P, Kosoy
	M. Molecular survey of bacterial zoonotic agents in bats from the country of Georgia (Caucasus). PLoS ONE.
	2017;12(1):e0171175.
2016	McKee CD, Hayman DTS, Kosoy MY, Webb CT. Phylogenetic and geographic patterns of bartonella host shifts
	among bat species. Infection, Genetics and Evolution. 2016;44:382-94.

Zinzow-Kramer WM, Horton BM, **McKee CD**, Michaud JM, Tharp GK, Thomas JW, Tuttle EM, Yi S, Maney DL. Genes located in a chromosomal inversion are correlated with territorial song in white-throated sparrows. Genes, Brain and Behavior, 2015:14(8):641-54.

Bai Y, Hayman DTS, **McKee CD**, Kosoy MY. Classification of *Bartonella* strains associated with straw-colored fruit bats (*Eidolon helvum*) across Africa using a multi-locus sequence typing platform. PLoS Neglected Tropical

Diseases. 2015;9(1):e0003478.

OTHER CONTRIBUTIONS

2020–2021 2019 Novel Coronavirus Research Compendium (NCRC) · https://ncrc.jhsph.edu/.
 2015 Owers K, McKee C, Hallman C, Portacci L, Miller R, Lindstrom T, Webb C. USAMM R Shiny Visualization ·

https://usamm-gen-net.shinyapps.io/usamm-gen-net/.

FELLOWSHIPS · GRANTS · AWARDS

Total received: \$96,150

2015

2015

2018	Colorado State University Vice President for Research Fellowship · \$4,000
2015-2017	CDC Division of Vector-Borne Diseases Regular Fellowship · \$82,000
2014 & 2017	Colorado State University Department of Biology Travel Awards ⋅ \$2,000
2015	Colorado State University Sharon E and David E Kabes Scholarship ⋅ \$1,150
2014	Colorado State University Graduate Degree Program in Ecology Small Research Grant • \$2,000
2013	Colorado State University Graduate Fellowship · \$1,000
2011	University of Pittsburgh Phi Beta Kappa
2007	University of Pittsburgh Honors College Scholarship · \$4,000

TFACHING

2022	Topics in Infectious Disease Epidemiology Teaching Assistant · Johns Hopkins University
2021 & 2022	The One Health Approach to Epidemiology and Global Public Health Teaching Assistant · Johns Hopkins
	University
2020 & 2021	Epidemiology of Infectious Diseases Teaching Assistant · Johns Hopkins University
2018 & 2019	Molecular and General Genetics Teaching Assistant · Colorado State University
2018	Introduction to Evolution Teaching Assistant & Guest Lecturer · Colorado State University
2018	Principles of Systematic Zoology Guest Lecturer · Colorado State University
2017	Ecology Teaching Assistant · Colorado State University
2017	Tropical Ecology and Evolution Guest Lecturer · Colorado State University
2016	Ecology of Infectious Diseases Guest Lecturer · Colorado State University
2014 & 2015	Ornithology Teaching Assistant & Guest Lecturer · Colorado State University
2014	Molecular and General Genetics Teaching Assistant & Guest Lecturer · Colorado State University
2013	Attributes of Living Systems Teaching Assistant · Colorado State University

STUDENT MENTORING

2022-	Jules Jackson Gradyate Student · Johns Hopkins University
2021-2022	Kelly Endres Graduate Research Assistant · Johns Hopkins University
2018	Paul Lazarus Undergraduate Research Assistant · Colorado State University
2016-2017	Alexis Cannella Undergraduate Research Assistant · Colorado State University
2014-2015	Jake Doyle Undergraduate Research Assistant · Colorado State University
2014-2015	Madison Leming Undergraduate Research Assistant · Colorado State University

PRESENTATIONS

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2022	International Conference on Emerging Infectious Diseases Atlanta, GA · Poster: Nipah virus detection at bat
2010	roosts following spillover events in Bangladesh, 2012–2019
2019	Evolution Providence, RI · Contributed talk: Comprehensive time tree analysis identifies bats as key to the
2010	radiation of mammal-associated <i>Bartonella</i> bacteria
2019	Ecology and Evolution of Infectious Disease Conference Princeton, NJ · Best poster award · Poster: Manip-
2010	ulating vector transmission reveals local processes in bacterial communities of bats
2019	Front Range Student Ecology Symposium Fort Collins, CO · Best poster award · Poster: Dispersal of hosts
2010	and vectors predicts bacterial community structure across an island chain
2018	Ecological Society of America Annual Meeting New Orleans, LA · Contributed talk: Timing the diversification
2010	of a mammal parasite, Bartonella
2018	Front Range Student Ecology Symposium Fort Collins, CO · Contributed talk: Timing the diversification of a
2010	mammal parasite, Bartonella
2018	Vice President for Research Three Minute Challenge Fort Collins, CO · Invited talk: Bad roommates? Infer-
2017	ring bacterial interactions in coinfected individuals
2017	Colorado State University Graduate Student Showcase Fort Collins, CO · Poster: Timing the diversification
2017	of a mammal parasite, <i>Bartonella</i>
2017	Ecological Society of America Annual Meeting Portland, OR · Contributed talk: Long-term monitoring of <i>Bartonella</i> spp. bacteria in a captive colony of fruit bats and experimental evidence of bat flies as vectors of
	bartonella
2017	International Symposium on Infectious Diseases of Bats Fort Collins, CO · Contributed talk: Long-term mon-
2017	itoring of Bartonella spp. bacteria in a captive colony of fruit bats and experimental evidence of bat flies as
	vectors of bartonella
2017	Ecology and Evolution of Infectious Disease Conference Santa Barbara, CA · Poster: Linking patterns of
2017	bacterial parasite diversity across host and vector communities
2017	Front Range Student Ecology Symposium Fort Collins, CO · Contributed talk: Host phylogenetic distance
2017	and ectoparasite overlap predict <i>Bartonella</i> sharing in European bats
2015	Ecological Society of America Annual Meeting Baltimore, MD · Contributed talk: Phylogeography of Bar-
	tonella bacteria in Eidolon spp. fruit bats across Africa
2015	Ecology and Evolution of Infectious Disease Conference Athens, GA · Poster: Phylogeography of Bartonella
	bacteria in <i>Eidolon</i> spp. fruit bats across Africa
2015	Front Range Student Ecology Symposium Fort Collins, CO · Contributed talk: Phylogeography of Bartonella
	in <i>Eidolon</i> fruit bats across Africa
2014	Ecological Society of America Annual Meeting Sacramento, CA · Poster: Large-scale patterns of <i>Bartonella</i>
	prevalence and diversity in African fruit bats
2014	Ecology and Evolution of Infectious Disease Conference Fort Collins, CO · Poster: Large-scale patterns of
	Bartonella prevalence and diversity in African fruit bats
2014	Front Range Student Ecology Symposium Fort Collins, CO · Poster: A novel method of isolating multi-locus
	sequence data for characterizing Bartonella diversity in bats

PROFESSIONAL SERVICE

Peer review: Acta Chiropterologica, Acta Tropica, BMJ, Current Zoology, Frontiers in Microbiology, Frontiers in Veterinary Science, Infection, Genetics and Evolution, Journal of Medical Entomology, Journal of Zoological Systematics and Evolutionary Research, Microbial Ecology, Microbial Pathogenesis, Nature Microbiology, Pathogens and Global Health, PLOS Neglected Tropical Diseases, PLOS ONE, The European Zoological Journal, The Lancet Planetary Health, The Science of Nature, Scientific Reports, Systematic Biology, Tropical Biomedicine, Veterinary Microbiology, Viruses, Zoonoses and Public Health

2021	American Society of Tropical Medicine and Hygiene Member
2019 & 2021	Society for the Study of Evolution Member
2019	American Society of Naturalists Member
2014-2019	Ecological Society of America Member & Member
2014-2019	Front Range Student Ecology Symposium Volunteer & Vice President

COMMUNITY ENGAGEMENT

2021-2022	Maryland Science Olympiad Baltimore, MD · Disease Detectives Exam Writer
2018 & 2019	Rocky Mountain Regional Middle School Science Bowl Loveland, CO · Moderator
2018	National Science Olympiad Fort Collins, CO · Workshop on Disease Ecology
2015	O'Dea Flementary School Science Fair Fort Collins CO. Judge