

Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health
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INTERESTS

wildlife disease ecology · 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 Bloomberg School of Public Health 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

FELLOWSHIPS · GRANTS · AWARDS

Total received: \$96,150

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

PUBLICATIONS

2020 I Goodrich, C McKee, M Kosoy. 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 15 (12), e0244803. 2020 I Rudolf, H Blazejova, J Mendel, P Strakova, O Sebesta, F Rettich, V Cabanova, M Miterpakova, L Betasova, J Pesko, E Barbusinova, **C McKee**, L Osikowicz, S Sikutova, Z Hubalek, M Kosoy. 2020. *Bartonella* species in medically important mosquitoes, Central Europe. Parasitology Research 119 (8), 2713-2717. 2020 I Goodrich, C McKee, M Kosoy. Longitudinal study of bacterial infectious agents in a community of small mammals in New Mexico. Vector-Borne and Zoonotic Diseases 20 (7), 496-508. 2019 CD McKee, Al Krawczyk, AD Sandor, T Gorfol, M Foldvari, G Foldvari, D Dekeukeleire, A-J Haarsma, MY Kosoy, CT Webb, H Sprong. Host phylogeny, geographic overlap, and roost sharing shape parasite communities in European bats. Frontiers in Ecology and Evolution 7, 69. 2018 Y Bai, MOV Osinubi, L Osikowicz, C McKee, NM Vora, MR Rizzo, S Recuenco, L Davis, M Niezgoda, AM Ehimiyein, GSN Kia, A Oyemakinde, OS Adeniyi, YH Gbadegesin, OA Saliman, A Ogunniyi, AB Ogunkoya, MY Kosoy, Idanre Bat Festival Investigation Team. Human exposure to novel Bartonella species from contact with fruit bats. Emerging Infectious Diseases 24 (12), 2317-2323. 2018 A Kellner, S Carver, V Scorza, CD McKee, M Lappin, KR Crooks, S VandeWoude, MF Antolin. Transmission pathways and spillover of an erythrocytic bacterial pathogen from domestic cats to wild felids. Ecology and Evolution 8 (19), 9779-9792. 2018 CD McKee, LM Osikowicz, TR Schwedhelm, SE Maes, RE Enscore, KL Gage, MY Kosoy. 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 55 (5), 1292–1298. 2018 M Kosoy, C McKee, L Albayrak, Y Fofanov. Genotyping of Bartonella bacteria and their animal hosts: current status and perspectives. Parasitology 145 (5), 543-562. 2018 EE Gorsich, CD McKee, DA Grear, RS Miller, K Portacci, T Lindstrom, CT Webb. Model-guided suggestions for targeted surveillance based on cattle shipments in the US. Preventive Veterinary Medicine 150, 52-59. 2018 CD McKee, LM Osikowicz, TR Schwedhelm, Y Bai, KT Castle, MY Kosoy. Survey of parasitic bacteria in bat bugs, Colorado. Journal of Medical Entomology 55 (1), 237–241. 2017 CD McKee, MY Kosoy, Y Bai, LM Osikowicz, R Franka, AT Gilbert, S Boonmar, CE Rupprecht, LF Peruski. Diversity and phylogenetic relationships among Bartonella strains from Thai bats. PLOS ONE 12 (7), e0181696. 2017 L Urushadze, Y Bai, L Osikowicz, C McKee, K Sidamonidze, D Putkaradze, P Imnadze, A Kandaurov, I Kuzmin, M Kosoy. Prevalence, diversity, and host associations of Bartonella strains in bats from Georgia (Caucasus). PLOS Neglected Tropical Diseases 11 (4), e0005428. 2017 Y Bai, L Urushadze, L Osikowicz, C McKee, I Kuzmin, A Kandaurov, G Babuadze, I Natradze, P Imnadze, M Kosoy. Molecular survey of bacterial zoonotic agents in bats from the country of Georgia (Caucasus). PLOS ONE 12 (1), e0171175. CD McKee, DTS Hayman, MY Kosoy, CT Webb. Phylogenetic and geographic patterns of bartonella host shifts 2016 among bat species. Infection, Genetics and Evolution 44, 382-394. 2015 WM Zinzow-Kramer, BM Horton, CD McKee, JM Michaud, GK Tharp, JW Thomas, EM Tuttle, SYi, DL Maney. Genes located in a chromosomal inversion are correlated with territorial song in white-throated sparrows. Genes, Brain and Behavior 14 (8), 641-654. 2015 Y Bai, DTS Hayman, CD McKee, MY Kosoy. Classification of Bartonella strains associated with straw-colored fruit bats (Eidolon helvum) across Africa using a multi-locus sequence typing platform. PLOS Neglected Tropi-

OTHER CONTRIBUTIONS

cal Diseases 9 (1), e0003478.

- 2021 2019 Novel Coronavirus Research Compendium (NCRC) · https://ncrc.jhsph.edu/.
- 2015 K Owers, **C McKee**, C Hallman, K Portacci, R Miller, T Lindstrom, C Webb. USAMM R Shiny Visualization · https://usamm-gen-net.shinyapps.io/usamm-gen-net/.

TEACHING

2020	Epidemiology of Infectious Diseases Teaching Assistant · Johns Hopkins Bloomberg School of Public Health
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

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

PRESEIN	TATIONS
2019	Evolution Providence, RI
	Contributed talk: Comprehensive time tree analysis identifies bats as key to the radiation of mammal-
	associated Bartonella bacteria
2019	Ecology and Evolution of Infectious Disease Conference Princeton, NJ · Best poster award
	Poster: Manipulating 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 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 of a mammal parasite, Bartonella
2018	Front Range Student Ecology Symposium Fort Collins, CO
	Contributed talk: Timing the diversification of a mammal parasite, Bartonella
2018	Vice President for Research Three Minute Challenge Fort Collins, CO
	Invited talk: Bad roommates? Inferring bacterial interactions in coinfected individuals
2017	Colorado State University Graduate Student Showcase Fort Collins, CO
	Poster: Timing the diversification of a mammal parasite, Bartonella
2017	Ecological Society of America Annual Meeting Portland, OR
	Contributed talk: Long-term monitoring of Bartonella spp. bacteria in a captive colony of fruit bats and exper-
	imental evidence of bat flies as vectors of bartonella
2017	International Symposium on Infectious Diseases of Bats Fort Collins, CO
	Contributed talk: Long-term monitoring of Bartonella spp. bacteria in a captive colony of fruit bats and exper-
	imental evidence of bat flies as vectors of bartonella
2017	Ecology and Evolution of Infectious Disease Conference Santa Barbara, CA
	Poster: Linking patterns of bacterial parasite diversity across host and vector communities
2017	Front Range Student Ecology Symposium Fort Collins, CO
	Contributed talk: Host phylogenetic distance and ectoparasite overlap predict Bartonella sharing in European
	bats
2015	Ecological Society of America Annual Meeting Baltimore, MD
	Contributed talk: Phylogeography of Bartonella bacteria in Eidolon spp. fruit bats across Africa
2015	Ecology and Evolution of Infectious Disease Conference Athens, GA
	Poster: Phylogeography of Bartonella bacteria in Eidolon spp. fruit bats across Africa
2015	Front Range Student Ecology Symposium Fort Collins, CO
	Contributed talk: Phylogeography of Bartonella in Eidolon fruit bats across Africa

PRESENTATIONS (CONTINUED)

2014	Ecological Society of America Annual Meeting Sacramento, CA
	Poster: Large-scale patterns of Bartonella 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, BMJ, Frontiers in Microbiology, Frontiers in Veterinary Science, Infection, Genetics and Evolution, Journal of Medical Entomology, Journal of Zoological Systematics and Evolutionary Research, Microbial Ecology, PLOS Neglected Tropical Diseases, PLOS ONE, The Science of Nature, Tropical Biomedicine, Viruses, Zoonoses and Public Health

2019	American Society of Naturalists Member
2019	Society for the Study of Evolution Member
2014-2019	Ecological Society of America Member
2014-2019	Front Range Student Ecology Symposium Volunteer
2015	Front Range Student Ecology Symposium Vice President
2014	Ecological Society of America Volunteer

COMMUNITY ENGAGEMENT

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 Elementary School Science Fair Fort Collins, CO · Judge