Department of Biology, Colorado State University · 1878 Campus Delivery · Fort Collins, CO 80523 ⊠ clifton.mckee@gmail.com 🔊 +1 970 889 9540 🐔 cliftonmckee.weebly.com

### **INTERESTS**

wildlife disease ecology  $\cdot$  phylogenetics  $\cdot$  statistical modeling  $\cdot$  population genetics  $\cdot$  molecular biology

### **EDUCATION**

2019	<b>PhD in Ecology (expected Fall 2019)</b> Colorado State University · Fort Collins, CO
	Advisor: Prof Colleen Webb

2015 MS in Ecology Colorado State University · Fort Collins, CO

Advisor: Prof Colleen Webb

BS in Ecology & BA in Environmental Studies University of Pittsburgh · Pittsburgh, PA

### PROFESSIONAL EXPERIENCE

2014-2019	<b>CDC Division of Vector-Borne Diseases</b> 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	<b>Emory University</b> Field Assistant & Field Research Specialist · Atlanta, GA
	PI: Prof Donna Maney
2011-2013	<b>WL Gore &amp; Associates</b> 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	<b>Colorado State University</b> 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**

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 communi-
	ties in European bats. In press at Frontiers in Ecology and Evolution.
2018	Y Bai, MOV Osinubi, L Osikowicz, <b>C McKee</b> , 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.

# PUBLICATIONS (CONTINUED)

2018	CD McKee, LM Osikowicz, TR Schwedhelm, SE Maes, RE Enscore, KL Gage, MY Kosoy. Acquisition of <i>Bartonella elizabethae</i> by experimentally exposed Oriental rat fleas ( <i>Xenopsylla cheopis</i> ; Siphonaptera, Pulicidae)
	and excretion of bartonella DNA in flea feces. Journal of Medical Entomology 55 (5), 1292–1298.
2018	M Kosoy, <b>C McKee</b> , L Albayrak, Y Fofanov. Genotyping of <i>Bartonella</i> bacteria and their animal hosts: current
	status and perspectives. Parasitology 145 (5), 543-562.
2018	EE Gorsich, <b>CD McKee</b> , DA Grear, RS Miller, K Portacci, T Lindstrm, 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. Di-
	versity and phylogenetic relationships among Bartonella strains from Thai bats. PLOS One 12 (7), e0181696.
2017	L Urushadze, Y Bai, L Osikowicz, <b>C McKee</b> , 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, <b>C McKee</b> , 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.
2016	CD McKee, DTS Hayman, MY Kosoy, CT Webb. Phylogenetic and geographic patterns of bartonella host shifts
	among bat species. Infection, Genetics and Evolution 44, 382-394.
2015	WM Zinzow-Kramer, BM Horton, <b>CD McKee</b> , JM Michaud, GK Tharp, JW Thomas, EM Tuttle, S Yi, 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, <b>CD McKee</b> , MY Kosoy. Classification of <i>Bartonella</i> strains associated with straw-colored
	fruit bats ( <i>Eidolon helvum</i> ) across Africa using a multi-locus sequence typing platform. PLOS Neglected Tropi-
	cal Diseases 9 (1), e0003478.

## OTHER CONTRIBUTIONS

2015 K Owers, **C McKee**, C Hallman, K Portacci, R Miller, T Lindstrom, C Webb. USAMM R Shiny Visualization. Available at: https://usamm-gen-net.shinyapps.io/usamm-gen-net/.

# **TEACHING**

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	<b>Ecology</b> 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	<b>Molecular and General Genetics</b> 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	<b>Madison Leming</b> Undergraduate Research Assistant · Colorado State University

## **PRESENTATIONS**

2010	Front Ponce Student Foology Symposium Fort Collins CO
2019	Front Range Student Ecology Symposium Fort Collins, CO
	Poster: Complex host-parasite interactions shape parasite population and community structure across an is-
0040	land chain
2018	Ecological Society of America Annual Meeting New Orleans, LA
0040	Contributed talk: Timing the diversification of a mammal parasite, <i>Bartonella</i>
2018	Front Range Student Ecology Symposium Fort Collins, CO
0040	Contributed talk: Timing the diversification of a mammal parasite, Bartonella
2018	Vice President for Research Three Minute Challenge Fort Collins, CO
0047	Invited talk: Bad roommates? Inferring bacterial interactions in coinfected individuals
2017	Colorado State University Graduate Student Showcase Fort Collins, CO
0047	Poster: Timing the diversification 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 exper-
0047	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 <i>Bartonella</i> spp. bacteria in a captive colony of fruit bats and exper-
0047	imental evidence of bat flies as vectors of bartonella
2017	Ecology and Evolution of Infectious Disease Conference Santa Barbara, CA
00.4=	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 <i>Bartonella</i> 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
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 <i>Bartonella</i> diversity in bats

## **PROFESSIONAL SERVICE**

**Peer review**: Acta Chiropterologica, Frontiers in Microbiology, Frontiers in Veterinary Science, Infection, Genetics and Evolution, Microbial Ecology, PLOS Neglected Tropical Diseases, Tropical Biomedicine, Zoonoses and Public Health

2014-2019	Front Range Student Ecology Symposium Volunteer
2014-2018	Ecological Society of America Member
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

## REFERENCES

Dr Colleen Webb Professor · Department of Biology · Colorado State University ⋈ colleen.webb@colostate.edu

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 $\label{lem:condition} \begin{tabular}{ll} Dr Michael Kosoy Chief \cdot Laboratory of Rodent-Borne and Wildlife Diseases \cdot CDC Division of Vector-Borne Diseases \\ & mck3@cdc.gov \end{tabular}$ 

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 $\label{eq:continuity} \textbf{Dr David TS Hayman} \ Associate \ Professor \cdot Institute \ of \ Veterinary, Animal \ and \ Biomedical Sciences \cdot Massey \ University \ \boxtimes \ d.t.s.hayman@massey.ac.nz$ 

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