

#### **INTERESTS**

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

#### **EDUCATION**

2019	PhD in Ecology (expected May 2019) 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

2014-2018	$\textbf{CDC Division of Vector-Borne Diseases} \ \textbf{Guest Researcher} \cdot \textbf{Fort Collins}, \textbf{CO}$
	Supervisor: Dr Michael Kosoy
2015-2017	<b>CDC Division of Vector-Borne Diseases</b> 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	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	<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**

In press	Kellner A, Carver S, Scorza V, <b>McKee CD</b> , Lappin M, Crooks KR, VandeWoude S, Antolin MF. Transmission pathways and spillover of an erythrocytic bacterial pathogen from domestic cats to wild felids. <b>Ecology and Evolution</b> .
2018	McKee CD, Osikowicz LM, Schwedhelm TR, Maes SE, Enscore RE, Gage KL, Kosoy MY. 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	Kosoy M, <b>McKee C</b> , Albayrak L, Fofanov Y. Genotyping of <i>Bartonella</i> bacteria and their animal hosts: current status and perspectives. Parasitology, 145, 5, 543-562.
2018	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, 150, 52-59.

# PUBLICATIONS (CONTINUED)

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, 55, 237-241.
2017	McKee CD, Kosoy MY, Bai Y, Osikowicz LM, Franka R, Gilbert AT, Boonmar S, Rupprecht CE, Peruski LF. Di-
	versity and phylogenetic relationships among <i>Bartonella</i> strains from Thai bats. PLOS ONE, 12, e0181696.
2017	Urushadze L, Bai Y, Osikowicz LM, <b>McKee C</b> , Kandaurov A, Kuzmin IV, Sidamonidze K, Putkaradze D, Imnadze
	P, Kosoy MY. Prevalence, diversity, and host associations of <i>Bartonella</i> strains in bats from Georgia (Caucasus).
	PLOS Neglected Tropical Diseases, 11, e0005428.
2016	McKee CD, Hayman DTS, Kosoy MY, Webb CT. Phylogenetic and geographic patterns of bartonella host shifts
	among bat species. Infection, Genetics and Evolution, 44, 382-394.
2015	Zinzow-Kramer WM, Horton BM, <b>McKee CD</b> , 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, 14, 641-654.
2015	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 Tropi-
	cal Diseases, 9, e0003478.

#### OTHER CONTRIBUTIONS

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

#### **TEACHING**

2014 & 2018	Molecular and General Genetics Teaching Assistant & Guest Lecturer · 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
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
2015	Jake Doyle Undergraduate Research Assistant · Colorado State University
2014-2015	<b>Madison Leming</b> Undergraduate Research Assistant · Colorado State University

## **PRESENTATIONS**

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

### PRESENTATIONS (CONTINUED)

Contributed talk: Long-term monitoring of Bartonella spp. bacteria in a captive colony of fruit bats and ex	per-
imental evidence of bat flies as vectors of bartonella	
2017 <b>Ecology and Evolution of Infectious Disease Conference</b> Santa Barbara, CA	
Poster: Linking patterns of bacterial parasite diversity across host and vector communities	
Front Range Student Ecology Symposium Fort Collins, CO	
Contributed talk: Host phylogenetic distance and ectoparasite overlap predict Bartonella sharing in Europ	ean
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	
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	
Front Range Student Ecology Symposium Fort Collins, CO	
Poster: A novel method of isolating multi-locus sequence data for characterizing Bartonella diversity in ba	its

#### PROFESSIONAL SERVICE

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

2014-2018	Ecological Society of America Member
2014-2018	Front Range Student Ecology Symposium Volunteer
2014	Ecological Society of America Volunteer
2014-2015	Front Range Student Ecology Symposium Vice President

# COMMUNITY ENGAGEMENT

2018	National Science Olympiad Fort Collins, CO · Workshop on Disease Ecology
2018	Rocky Mountain Regional Middle School Science Bowl Loveland, CO · Moderator
2015	O'Dea Elementary School Science Fair Fort Collins, CO · Judge

#### **REFERENCES**

**Dr Colleen Webb** Professor · Department of Biology · Colorado State University 

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Dr Michael Kosoy Chief · Laboratory of Rodent-Borne and Wildlife Diseases · CDC Division of Vector-Borne Diseases ⊠ mck3@cdc.gov

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

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