

# Alan T Hitch

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Project Scientist

University of California at Davis - Department of Wildlife, Fish and Conservation Biology  
Museum of Fish and Wildlife Biology

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## EDUCATION

*Auburn University*, Ph.D. Forestry and Wildlife Biology 2013  
*University of Louisiana at Lafayette*, M.S. Biology 2006  
*University of California at Davis*, B.S. Wildlife Fish and Conservation Biology 2001

## EMPLOYMENT

*University of California at Davis - Museum of Wildlife and Fish Biology*  
Project Scientist 2009-present  
*Harrisburg University of Science and Technology*  
Corporate Faculty 2016-present  
*Stillwater Sciences*  
Senior Ecologist 2014-present

## TEACHING

*Corporate Faculty, Data Analytics, Harrisburg University of Science and Technology* 2016-present  
ANLY 506 - Exploratory Data Analysis (MS)  
ANLY 512 - Data Visualization (MS)  
ANLY 505 - Data Simulation, Bayesian Modeling and Inference (MS)  
ANLY 705 - Applied Predictive Modeling (PhD)

## CONSULTANCIES

### *Project - West African Center for Research in Emerging Infectious Diseases (WAC-EID)*

Conducted field training for bat sampling methods and species identification

Conducted a training workshop on acoustic sampling and analysis of West African bat call data

### *Project - A Hospital- and Community-based Investigation of Rickettsial Diseases, Scrub Typhus, and Q Fever in Vietnam*

Conducted a GIS, Occupancy Modeling, and R workshop to support community-based study

Advised on KAP survey questionnaire

### *Project - Investigating the risk of human disease from parasite of small mammals and bats in Cambodia*

Conducted a training workshop on GIS, Occupancy Modeling, Ecological Study Design, and R to develop habitat-relationship models of host distributions

Conducted field training for bat and rodent sampling methods and species identification

## SELECTED PUBLICATIONS

### Journal Articles

- Mukhit B. Orynbayev, **Alan T. Hitch**, Aslan A. Kerimbayev, Raikhan K. Nissanova, Kulyaisan T. Sultankulova, Rashida A. Rystayeva, Zamira D. Omarova, Markhabat M. Kassenov, Elmira T. Tailakova, Gavin J. Smith, Ian H. Mendenhall. 2022. "Serological exposure in Bactrian and dromedary camels in Kazakhstan to a MERS or MERS-like coronavirus." *Transboundary and Emerging Diseases* (In press)
- Neil M. Furey, Vuong T. Tu, **Alan T. Hitch**, Awatsaya Pimsai, Chor Kimashalen, Buor Vuthy, Yim Raksmei, Chheang Sarak, Sophie A. Borthwick, Lena Ch'Ng, Say Sinly, Gabor Csorba, Ith Saveng, Gavin J. Smith, Cheheang Dany, and Ian H. Mendenhall. 2021. "First records of seemingly rare bats (Mammalia: Chiroptera) in Cambodia, with a revised checklist of species for the country." *Acta Chiropterologica* 23 (2)
- Kyle N. Armstrong, Sylvia Clarke, Aimee Linke, Annette Scanlon, Philip Roetman, Jacqui Wilson, **Alan T. Hitch**, and Steven C. Donnellan. 2021. "Citizen science implements the first intensive acoustics-based survey of insectivorous bat species across the Murray-Darling Basin of South Australia." *Australian Journal of Zoology* 68 (6).
- Nicolas Nesi, Georgia Tsagkogeorga, Susan M. Tsang, Violaine Nicolas, Aude Lalis, Annetta T. Scanlon, Silke A. Riesle-Sbarbaro, Sigit Wiantoro, **Alan T. Hitch**, Javier Juste, Corinna A. Pinzari, Frank Bonaccorso, Christopher M. Todd, Burton K. Lim, Nancy B. Simmons, Michael R. McGowen, and Stephen Rossiter. 2021. "Interrogating Phylogenetic Discordance Resolves deep splits in the rapid radiation of Old World Fruit bats (Chiroptera: Pteropodidae)." *Systematic Biology* 70 (6)
- Dolyce HW. Low, **Alan T. Hitch**, Maggie M. Skiles, Sophie A. Borthwick, Erica S. Neves, Zong Xian Lim, Benjamin P.Y-H Lee, Yvonne CF Su, Gavin JD Smith, and Ian H. Mendenhall. 2021. "Host specificity of Hepatocystis infection in short-nosed fruit bats (*Cynopterus brachyotis*) in Singapore." *International Journal for Parasitology: Parasites and Wildlife* 15
- Julie Broken-Brow, **Alan T. Hitch**, Kyle N. Armstrong, Luke K.-P. Leung. 2019. "Effect of fire on insectivorous bat activity in northern Australia: does fire intensity matter on a local scale?." *Australian Journal of Zoology* 67 (6)
- Zong Xian Lim, **Alan T. Hitch**, Benjamin P.Y-H. Lee, Dolyce HW Low, Erica S. Neves, Sophie A. Borthwick, Gavin JD Smith, and Ian H. Mendenhall. 2020. "Ecology of bat flies in Singapore: A study on the diversity, infestation bias and host specificity (Diptera: Nycteribiidae)." *International Journal for Parasitology: Parasites and Wildlife* 12
- Michael N. Davis, Thomas E. McMahon, Molly AH Webb, Jason E. Ilgen, **Alan T. Hitch**, Matthew E. Jaeger, and Kyle E. Cutting. 2019. "Winter survival, habitat use, and hypoxia tolerance of Montana Arctic Grayling in a winterkill-prone lake." *Transactions of the American Fisheries Society* 148 (4)
- Sigit Wiantoro, **Alan T. Hitch**, Irene E. Engilis, Hendra Gunawan, Andrew E. Engilis Jr. 2017. "Bats (Chiroptera) recorded in the lowland of Southeast Sulawesi, Indonesia with notes on taxonomic status and significant range extensions." *Mammalia* 81 (4)
- Kevin M. Purcell, **Alan T. Hitch**, Shannon B. Martin, Paul K. Klerks, Paul L. Leberg. 2012. "The role of genetic structure in the adaptive divergence of populations experiencing saltwater intrusion due to relative sea-level rise." *Journal of Evolutionary Biology* 25 (12)
- Alan T. Hitch**, Kevin M. Purcell, Shannon B. Martin, Paul K. Klerks, Paul L. Leberg. 2011. "Interactions of salinity, marsh fragmentation and submerged aquatic vegetation on resident nekton assemblages of coastal marsh ponds." *Estuaries and Coasts* 34 (3)
- Alan T. Hitch**, Paul L. Leberg. 2007. "Breeding distributions of North American bird species moving north as a result of climate change." *Conservation Biology* 21 (2)

## SELECTED PRESENTATIONS

- Alan T. Hitch**, Gavin J. Smith, Ian H. Mendenhall, Sophie A. Borthwick, Dany Chheang, Sorn San, Neil M. Furey, and Awatsaya Pimsai. 2019. "Investigating the risk of human disease from parasites of small mammals

*and bats in Cambodia.*" 2<sup>nd</sup> Asia Pacific Rickettsia Conference, Chiang Rai, Thailand

**Alan T. Hitch**, Gavin J. Smith, Ian H. Mendenall, Sophie A. Borthwick, Dany Chheang, Sorn San, Neil M. Furey, and Awatsaya Pimsai. 2019. *"Investigating the risk of human disease from parasites of small mammals and bats in Cambodia."* Biological Threat Reduction Program - Science Program Review, Warsaw, Poland

**Alan T. Hitch**, Gavin J. Smith, Ian H. Mendenhall, Sophie A. Borthwick, Dany Chheang, Neil M. Furey. 2019. *"Modelling distributions and habitat relationships of bats in Cambodia using multiple survey methods within an occupancy framework on a country-wide scale."* 18<sup>th</sup> International Bat Research Conference, Phuket, Thailand

**Alan T. Hitch**, Gavin J. Smith, Ian H. Mendenhall, Kyle A. Armstrong, Dany Chheang, and Neil M. Furey. 2018. *"Analyzing large bat acoustic data sets with automation and visual checking in Southeast Asia with SZApp software."* 4<sup>th</sup> International Southeast Asia Bat Research Conference, Bacolod, Philippines

## **SERVICE**

### ***Reviewer***

International Journal of Biometereology, Scientific Reports, Arctic, Conservation Biology, Hydrobiologia, Methods in Ecology and Evolution, Estuaries and Coasts, Climatic Change, Bat Research and Conservation, Acta Chiropterologica