

# Lauren Mae Hennelly

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Mammalian Ecology and Conservation Unit

University of California, Davis

Davis, California, 95616 USA

## EDUCATION

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Sept 2016 – **Ph.D Candidate, University of California, Davis**, Davis, CA  
Current Advisor: Dr. Benjamin N. Sacks

May 2013 **B.S., University of Wisconsin-Madison**, Madison WI  
*Major:* Evolutionary Biology, honors in research.

## FELLOWSHIPS

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2017 National Science Foundation Graduate Research Fellowship (\$132,000)  
2016 UC Davis Graduate Group in Ecology Fellowship (\$62,000)  
2014 U.S. Fulbright Student Research Fellowship to India (~\$24,000)  
2012 Hilldale Undergraduate/Faculty Research Fellowship (\$4,000)

## RESEARCH PUBLICATIONS

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- 11.) Plassais J, BM vonHoldt, HG Parker, A Carmagnini, N Dubos, I Papa, K Bevant, T Derrien, **LM Hennelly**, DT Whitaker, AC Harris, AN Hogan, HJ Huson, VF Zaibert, A Linderholm, J Haile, T Fest, B Habib, BN Sacks, N Benecke, AK Outram, MV Sablin, M Germonpre, G Larson, L Frantz, EA Ostrander. 2022. Natural and human-driven selection of a single non-coding body size variant in ancient and modern canids. *Current Biology* 32(4): 889-897
- 10.) **LM Hennelly**, B Habib, S Modi, EK Rueness, P Gaubert, BN Sacks. 2021. Ancient divergence of Indian and Tibetan wolves revealed by recombination-aware phylogenomics. *Molecular Ecology* <https://doi.org/10.1111/mec.16127>
- Featured in a Perspective piece in *Molecular Ecology* by Dr. Malgorzata Pilot
  - Featured in > 30 news outlets
- 9.) Razaqat I, T Mahmood, **LM Hennelly**, F Akrim, IU Zaman, H Fatima, S Andleeb, G Muhammad, Y Abbas, M Farooq, N Munawar, MR Khan, A Hamid, MA Orakzai. 2021. Phylogenetic status and diet of red fox (*Vulpes vulpes griffithii*) inhabiting Ayubia National Park, Pakistan. *Brazilian Journal of Biology* 84:e252991.
- 8.) Sarwar G, AM Khan, F Abbas, MT Wasim, **LM Hennelly**. 2021. First record on body morphometrics and chemical immobilization of wolves from Pakistan. *Pakistan Veterinary Journal* <http://dx.doi.org/10.29261/pakvetj/2021.054>

- 7.) Sacks BN, KJ Mitchell, CB Quinn, **LM Hennelly**, MHS Sinding, MJ Statham, S Preckler-Quisquater, SR Fain, L Kistler, SL Vanderzwan, JA Meachen, EA Ostrander, LAF Frantz. 2021. Pleistocene origins, western ghost lineages, and the emerging phylogeographic history of the red wolf and coyote. *Molecular Ecology* <https://doi.org/10.1111/mec.16048>
- 6.) Fatima H, T Mahmood, **LM Hennelly**, M Farooq, F Akrim, MS Nadeem. 2021. Spatial distribution and dietary niche breadth of leopard cat (*Prionailurus bengalensis*) inhabiting Margalla Hills National Park, Pakistan. *Zoological Studies* 60:34
- 5.) Weyna A, RR Dubielzig, **LM Hennelly**. 2020. The relative importance of phylogeny and habitat in determining the presence and prominence of a granula iridica in hooved mammals. *Veterinary Ophthalmology* 1-8.
- 4.) Sadhukhan S, **LM Hennelly**, B Habib. 2019. Characterising the vocal repertoire of the Indian wolf (*Canis lupus pallipes*). *PloS ONE* 14(10): e0216186
- 3.) Hamid A, T Mahmood, H Fatima, **LM Hennelly**, R Akrim, A Hussain, M Waseem. 2019. Origin, ecology, and human conflict of grey wolf (*Canis lupus*) in Suleiman Range, South Waziristan, Pakistan. *Mammalia* 83(6): 539-551.
- 2.) **Hennelly LM**, B Habib, H Root-Gutteridge, V Palacios, D Passilongo. 2017. Howl variation across Himalayan, North African, Indian and Holarctic wolf clades: tracing divergence in the world's oldest wolf lineages using acoustics. *Current Zoology* 63(3): 341-348.
- 1.) **Hennelly LM**, B Habib, and S Lyngdoh. 2015. Himalayan wolf and feral dog displaying mating behavior from Spiti Valley, India and potential conservation threats from sympatric feral dogs. *Canid Biology & Conservation* 18(9): 33-36.

### **In Review**

Fatima H, Mahmood T, **Hennelly LM**, M Farooq, S Ali, BN Sacks. *In review*. Using DNA-verified scats and other sign to assess the distribution of sympatric carnivores in Margalla Hills National Park, Pakistan. *Animal Biology*

### **In Prep**

**Hennelly LM**, Fatima H, Werhahn G, Kachel S, B Habib, G Sarwar, AM Khan, FI Abbas, T Mahmood, Kubynchbekov Z, Y Rizvi, BN Sacks. *In prep*. Three-way contact zone reveals adaptive introgression among deeply divergent wolf lineages. Target-*Proceedings of the National Academy of Sciences*

### **AWARDS and GRANTS**

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2018	The Alongside Wildlife Foundation (\$380)
2017	UK Wolf Conservation Trust Research Grant (\$4,200)
2017	Explorer's Club Exploration Fund Grant (\$1,000)

2016	National Science Foundation Graduate Research Fellowship - Honorable Mention
2016	UK Wolf Conservation Trust Research Grant (\$5,000)
2013	Irving W. Gerhardt Conservation Biology Scholarship (\$1,000)
2012	Center for Limnology Chase Noland Award (\$2,000)

## PROFESSIONAL PRESENTATIONS

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**Hennelly LM**, B Habib, H Fatima, G Sarwar, G Werhahn,... BN Sacks. Rescheduled January 2023 due to covid19. *Genomic insights into gray wolf evolution through South and Central Asian wolf genomes*. Plant and Animal Genome Conference, San Diego, CA.

**Hennelly LM**. January 2022. *Unraveling the evolutionary history of gray wolves in South Asia to inform conservation*. University of Okara, Punjab, Pakistan. **Invited Speaker**

**Hennelly LM**. November 2021. *Unraveling the evolutionary history of gray wolves in South and Central Asia*. Wolf Conservation Center Scientific Webinar Series. **Invited Speaker**

**Hennelly LM**. February 2020. *Genomics insights into the distinctiveness and distribution of Southern Asian wolves*. Oral Presentation at the Graduate Group in Ecology Symposium, UC Davis.

**Hennelly LM**, S. Modi, B. Habib, BN Sacks. Jan 2020. *Whole genome resequencing of wolves at a contact zone in South Asia to explore distinctiveness, local adaptation, and barrier genes*. Poster presentation. Plant and Animal Genome Conference XXVIII

**Hennelly LM**. March 2019. *Collaboration across borders: Evolution, ecology, and conservation of wolves in Asia*. Oral Presentation. Discover your Niche: Wildlife Professional Development Conference, University of California, Davis. **Invited Speaker**.

**Hennelly LM**. February 2019. *Evolution, ecology, and conservation of wolves in Asia*. Oral Presentation. Wildlife Fish and Conservation Department Seminar, University of California, Davis, Davis, CA.

Shrotriya S, Habib B, Jhala YV, Lyngdoh S, Reshamwala H, Sadhukhan S, **Hennelly LM**. September 2017. *Mountains to grasslands: insights into wolf ecology and conservation in India*. Oral Presentation. 31<sup>st</sup> Annual Research Seminar. Wildlife Institute of India. Dehradun, India.

**Hennelly LM**. March 2015. *Howls of India: Assessing endangered wolf populations through howl surveys*. Presentation at the Fulbright South and Central Asia Conference. Hyderabad, India

**Hennelly, LM**. May 2013. *What Eye Learned: Phylogenetic and Ecological Influences on Vertebrate Eye Morphology*. Presentation at the Undergraduate Symposium. University of Wisconsin-Madison, Madison WI.

**Hennelly LM.** Feb 2013. *Phylogenetic and Ecological Influences on Vertebrate Eye Morphology*. Presentation at the Department of Pathobiological Sciences Seminar, University of Wisconsin-Madison, Madison WI.

**Hennelly LM.** Aug 2011. *Ecology and Evolution of Neotropical Bats and Rodents*. Presentation at the Undergraduate Research Symposium. Field Museum of Natural History, Chicago IL.

**Hennelly LM.** May 2010. *Evaluating Variations in Morphological Evolutionary Rates between Island and Mainland Species*. Poster at the Undergraduate Research Symposium, University of Wisconsin-Madison.

## TEACHING EXPERIENCE

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2022	<b>Teaching Assistant</b> , EVE101 – Introduction to Ecology, UC Davis
2021,2022	<b>Teaching Assistant</b> , BIS2B: Introduction to Biology – Ecology and Evolution, UC Davis
2021	<b>Invited Guest Lecturer</b> . Molecular Ecology course, UC Davis
2020	<b>Course Instructor</b> . Writing seminar for the NSF Graduate Research Fellowship
2020	<b>Invited Guest Lecturer</b> . B.S. Course for Environmental Sciences. Bahria University, Islamabad, Pakistan.
2020	<b>Invited Guest Lecturer</b> . Master's course in Environmental Management – University of San Francisco.
2019	<b>Software Carpentry Instructor Training</b> . (March 2019). Professional development for teaching computer programming.
2017	<b>Teaching Assistant</b> , BIS2C: Introduction to Biology – Biodiversity and the Tree of Life, UC Davis

## RESEARCH EXPERIENCE

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Summer 2016	<b>Project Biologist</b> . Wood River Wolf Project. Hailey, Idaho
2015-2016	<b>Research Technician</b> . Wyoming Cooperative Fish and Wildlife Research Unit. Laramie, Wyoming
2011-2015	<b>Student Researcher</b> . Center for Limnology, UW-Madison. Madison, Wisconsin
2014-2015	<b>Fulbright Scholar</b> . Wildlife Institute of India. Dehradun, India.
2014	<b>Field Assistant</b> . University of Auckland. New Zealand (2 months)
2013	<b>Field Assistant</b> . Deakin University. Australia (4 months)
Summer 2013	<b>Field Assistant</b> in Indian Himalaya. University of Chicago. Illinois
April 2012	<b>Field Assistant</b> . Yanayacu Biological Station. Cosanga, Ecuador
Summer 2011	<b>Intern</b> . Field Museum of Natural History. Chicago, Illinois
2010-2011	<b>Student Researcher</b> . Bret Payseur Lab, UW Madison. Madison, Wisconsin
2010	<b>Student Researcher</b> . Francisco Pelegri Lab, UW-Madison. Madison, Wisconsin

**Total field experience by country:** India (16 months), Pakistan (~ 2 months), Ecuador (3 month), Australia (4 months), New Zealand (2 months), United States (Wyoming and Idaho – 3 months)

## PROFFESIONAL AFFILIATIONS

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Wildlife Institute of India – External Ph.D Scholar (2016-2020)  
American Institute of Pakistan Studies – member  
The Systematics Association – member  
Society of Conservation Biology – member (Asia Chapter, UC Davis Chapter)

## SERVICE and OUTREACH

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**Committee Member** – UC Davis Graduate Group in Ecology Admissions (2018, 2019, 2020)  
**Presenter** – Instagram live session with The Grasslands Trust, an NGO in India focused on conservation of Indian grasslands and their species (2022)  
**Organizing Member** – UC Davis Graduate Student Symposium in Ecology (2017)  
**Secretary** – Society of Conservation Biology – Davis Chapter (2019-2021)  
**Reviewer** – *European Journal of Wildlife, Scientific Reports*  
**Volunteer Educator** – UC Davis Graduate Group in Ecology Picnic Day (2017 – 2019), Madison Elementary School in Morton Grove, IL (2016, 2017, 2018), Edison Elementary School in Skokie, IL (2014, 2015, 2016, 2017, 2018), Winston Elementary School in Palatine, IL (2016, 2017, 2018)  
**Panel Speaker** – *Every Penny Counts: Funding Graduate School Workshop* for the conference “I am First: Navigating Graduate School through a Proactive Mindset”. University of California, Davis (March 2019).

## POPULAR SCIENCE PUBLICATIONS

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**Hennelly LM.** 2022. The ancient Indian wolf: the world’s most endangered and evolutionarily distinct gray wolf. *International Wolf Magazine*. Spring 2022 issue

**Hennelly LM.** 2018. The little-known wolves of South Asia. UK Wolf Conservation Trust’s *Wolf Print Magazine*. March 2018 Issue.

**Hennelly LM.** 2015. Chasing Shanku: wolf research in the High Himalaya. *International Wolf Magazine* 16(4): 12-13.

**Hennelly LM.** Chasing Shanku: wolf research in the High Himalaya. UK Wolf Conservation Trust’s *Wolf Print Magazine* (reprint from International Wolf Magazine). Summer 2017 issue.

**Hennelly LM.** 2015. Hybridisation threat in the Himalaya. Conservationindia.org.