

Karann Putrevu

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Research Interests

Large carnivore conservation, predator ecology, population modelling, human-wildlife conflict, Bayesian statistics

Education

UNIVERSITY OF WISCONSIN-MADISON, MADISON, WI, USA

2025

PhD in Environment and Resources

Large carnivores: Case studies on nonlethal effects, population monitoring, and responses to prey depletion (Pending Revision Approval)

- Chapter 1: Bayesian analysis of discrepancies between volunteer and DNR winter gray wolf counts in Wisconsin 2003-2011 with implications for defensible inference and participatory conservation
- Chapter 2: Investigating the potential nonlethal effects of Amur tigers on their ungulate prey in the Russian Far East
- Chapter 3: Modelling Amur tiger population viability in response to African Swine Fever-induced prey depletion in Northeast Asia

Advisor: Dr. Adrian Treves

Committee: Dr. Arlyne Johnson, Dr. Zachariah Peery, Dr. Richard Chappell, Dr. Karen Evans-Romaine

CORNELL UNIVERSITY, ITHACA, NY, USA

2016

B.S. Biological Engineering (Biomedical Concentration)

B.S. Biological Sciences (Computational Concentration)

Cum Laude Honors

Publications and Ongoing Projects

Treves, A., Santiago-Ávila, F. J., Putrevu, K. (2021). Quantifying the effects of delisting wolves after the first state began lethal management. *PeerJ*, 9, e11666. <https://doi.org/10.7717/peerj.11666>

(Ongoing analysis as an extension to dissertation chapter 3) Assessing metapopulation viability of Amur tigers in Northeast Asia in response to prey depletion and increased anthropogenic mortality. Putrevu, K., Klevtcova, A., Waller, S., Miquelle, D.

Honors, Fellowships, and Scholarships

Title VIII Fellowship (2022) (Awarded for the study of Russian language at the Indiana University Summer Language Workshop)

University Fellowship (2021, 2016-2017) (Awarded by the University of Wisconsin-Madison Graduate School)

Fulbright Hays Doctoral Dissertation Research Abroad Fellowship (FY 2019) (Awarded by the US Department of Education)

Honored Instructor (Fall 2019) (Awarded by University Housing, University of Wisconsin-Madison)

Foreign Language and Area Studies (FLAS) Academic Year Fellowship (2018) (Awarded by the Center for Russia, East Europe, and Central Asia, University of Wisconsin-Madison)

William C. Burns & Lemuel A. Fraser Teaching Enrichment Scholarship (2018) (Awarded by the Department of Integrative Biology, University of Wisconsin-Madison)

Foreign Language and Area Studies (FLAS) Summer Fellowship (2018) (Awarded by the Center for Russia, East Europe, and Central Asia, University of Wisconsin-Madison)

Research Grants

4000 USD (2019-20) CREECA Graduate Student Short Term Travel Award. “Ungulate antipredator response to perceived risk of Amur tiger predation in the Russian Far East” (PI Karann Putrevu)

10000 USD (2019) National Geographic Society Early Career Grant. “Ungulate antipredator behaviors in response to sensory cues of and vulnerability to attack by Amur tigers (*Panthera tigris altaica*).” (PI Karann Putrevu)

3565 USD (2019) CREECA Graduate Student Short Term Travel Award. “Ungulate antipredator response to perceived risk of Amur tiger predation in the Russian Far East” (PI Karann Putrevu)

5000 USD (2019) Fresno Chaffee Zoo Conservation Fund Grant. “Ungulate antipredator responses to perceived risk of Amur tiger predation in the Russian Far East” (PI Adrian Treves)

Work Experience (Selected)

PRIMARY INSTRUCTOR-UNIVERSITY OF WISCONSIN-MADISON, MADISON, WI, USA JUN '23-AUG '23

- Supervised instruction and graded work concerning topics in ecology, conservation, and environmental preservation (Environmental Studies 413)
- Topics covered include conservation ethics, biodiversity and extinction threats, climate change, and human interventions for the preservation of biodiversity

TEACHING ASSISTANT-UNIVERSITY OF WISCONSIN-MADISON, MADISON, WI, USA AUG '22-DEC '22

- Taught weekly discussion and lab sections for Introductory Biology (Zoology 151).
- Topics covered include cell biology, genetics, and animal physiology.
- Skills taught include experimental design, scientific writing, microscopy, PCR, and specimen dissection.

TEACHING ASSISTANT-UNIVERSITY OF WISCONSIN-MADISON, MADISON, WI, USA JAN-MAY '22

- Taught weekly discussion and lab sections for Introductory Biology (Zoology 152)
- Topics covered include plant biology, ecology, and evolutionary biology
- Skills taught include experimental design, scientific writing, and scientific meta-analysis

TEACHING ASSISTANT-UNIVERSITY OF WISCONSIN-MADISON, MADISON, WI, USA AUG '19-DEC '20

- Taught weekly discussion sections for Introductory Ecology (Environmental Studies 260)
- Topics covered include community ecology and ecosystems, population ecology, behavioral ecology

RESEARCH ASSISTANT-UNIVERSITY OF WYOMING, LARAMIE, WY, USA JULY-AUGUST 2016

- Dried and mounted insects (orders Hymenoptera and Coleoptera)
- Set up and deployed Lindgren and predator exclusion traps to study mountain pine beetle (*Dendroctonus ponderosae*)

INTERN-BROOKHAVEN NATIONAL LABORATORY, UPTON, NY, USA JUNE-AUGUST 2015

- Used Sherman traps and program MARK to study effects of large scale solar facility on small mammal populations.
- Assisted in bat mist-netting surveys, bat acoustic surveys, and transect surveys for reptiles and vegetation

- Researched, designed and implemented a viability testing protocol for microscale printing of mammalian cells onto substrates
- Created microfluidic devices for deterministic size-based separation of blood into components (leukocytes, erythrocytes, plasma, platelets) for biomedical research

Computer Skills

R	Matlab
LaTeX	Adobe Illustrator
QGIS	Microsoft Office

Languages

English: Native Russian: Advanced French: Novice Telugu: Novice