

## *Curriculum Vitae*

### **Kelly B. Klingler, Ph.D.**

Lecturer, Department of Environmental Conservation  
University of Massachusetts, Amherst  
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#### **EDUCATION**

##### **Doctor of Philosophy, University of Nevada, Reno**

Program in Ecology, Evolution, & Conservation Biology

Major Advisor: Dr. Mary M. Peacock, Degree earned in December 2017

##### **Bachelor of Science, SUNY College of Environmental Science and Forestry**

Honors summa cum laude, Degree earned in May 2010

Program in Conservation Biology, Syracuse, NY

#### **ACADEMIC POSITIONS**

**Lecturer of Wildlife Conservation, Academic Advisor** Department of Environmental Conservation (ECo), Natural Resources Conservation, University of Massachusetts, Amherst, Jan 2021-ongoing

**Postdoctoral Research Scholar:** Department of Biology, University of Nevada, Reno, Jan 2018 to Dec 2020. Co-advisors: Mary M. Peacock, Ph.D., and Julie Allen, Ph.D.

**Conservation Genetics and Evolutionary Genomics Lab Manager:** University of Nevada, Reno, 2016 to Dec 2020. Co-advisors: Mary M. Peacock, Ph.D. and Julie Allen, Ph.D.

#### **DEPARTMENTAL SERVICE**

UMass Student Chapter of The Wildlife Society, Faculty Advisor, 2021-ongoing

Forsythe Grange Mentoring Program, Faculty Mentor, 2022-ongoing

ECo Diversity, Equity, Inclusion and Justice committee, Faculty Member, 2022-ongoing

#### **TEACHING**

##### **NRC 390E Evolution and Conservation (3 cr.)**

Spring 2022, Flex Learning (49 students)

3 modes of attendance offered: in person, live online (Zoom) or asynchronously (Echo)

##### **Role: Instructor, UMass Amherst**

This course provides the evolutionary basis for understanding biological problems in conservation. Evolutionary thinking provides more comprehensive approaches to conservation biology and future conservation practitioners must be equipped with the ability to think about conservation from an evolutionary perspective. Major topics include: 1) a survey of evolutionary theory, 2) the application of evolutionary thinking to case students and problems in conservation biology.

##### **NRC 211 Wildlife Sampling and Identification (2 cr.)**

Spring 2021, Fully Remote (37 students), 2 sections

Spring 2022, Flex Learning (65 students), 2 sections, 3 modes of attendance offered: in person, live online (Zoom) or asynchronously (Echo)

**Role: Instructor, UMass Amherst**

Provides basic experience in identifying aquatic and terrestrial wildlife with examples of typical means of capturing/sampling such organisms. This course involves the handling of animals and animal specimens, and all activities have been approved by the Institutional Animal Care and Use Committee (IACUC).

**NRC 261 Wildlife Conservation (3 cr.)**

Spring 2021, Fully Remote (148 students)

Spring 2022, Flex Learning (189 students), 3 modes of attendance offered: in person, live online (Zoom) or asynchronously (Echo)

**Role: Instructor, UMass Amherst**

Conservation of wildlife depends upon an understanding of ecological processes (including animal behavior, habitat interactions, and population dynamics), recognition of the impacts of humans on life around them, and ultimately, the wise stewardship of our natural resources. This course provides an introduction to wildlife conservation by exploring these topics through lectures and assigned readings. Case studies of various species will be used to illustrate the complexities of conservation and management situations, but also to identify the common themes encountered in wildlife conservation efforts. Emphases will include understanding the integral link between wildlife and their environments, the effects humans have on wildlife (both positive and negative), and the various methods by which wildlife populations are monitored, managed and conserved.

**NRC 564 Wildlife Habitat Management (4 cr.)**

Fall 2021, In person with flexible semi-hybrid format (46 students)

**Role: Instructor, UMass Amherst**

Provides overview of the dynamics and management of forested, open woodland, and savanna habitats in North America and elsewhere. Topics include wildlife ecology, habitat classification, resource utilization, impacts on humans, and management techniques. Team-based learning format that culminates in a semester-long habitat management plan.

**EECB 751 Landscape Genetics Distributed Graduate Seminar (DGS) (3 cr.)**

Spring 2020 (2 graduate students)

**Role: Local Instructor of Record, University of Nevada, Reno**

This web-based online course provides interdisciplinary training in the field of landscape genetics from international experts and outside institutions. Graduate students enroll via their local institution and participate in weekly live web-cast lectures, discussions and R lab exercises. Team-based research projects offer collaboration across institutions and fosters a community of landscape geneticists.

**BIOL 415/615 Evolution (4 cr.)**

Fall 2018 (140 students, core curriculum capstone)

**Role: Teaching Assistant, Assistant Instructor with Dr. Beth Pringle  
University of Nevada, Reno**

This capstone course provides senior students with an understanding of the pattern and process in the evolution of life on Earth. I am responsible for assisting to re-design this course using research-based best practices of course design, learning theory and educational technology. The objective is to create a learner-centered environment and use of technology to facilitate active learning, project-based learning and assessment.

**BIOL 190 Introduction to Cellular and Molecular Biology, online (3 cr.)**

Summers 2016 (50 students) & 2017 (87 students)

**Role: Instructor of Record, University of Nevada, Reno**

Online course that runs for 15-weeks during the summer session and enables students to enroll in this introductory course that serves as a prerequisite for both majors and non-majors in pre-health fields. Academic content focuses on Biological Molecules, Energy Concepts, Membrane Signaling, Photosynthesis, Cellular Respiration, etc.

**SCI 110 First Year Experience I: Science and Mathematics (1 cr.)**

Fall 2015 (326 Biology and Neuroscience students)

**Role: Instructor of Record, University of Nevada, Reno**

Course designed to provide an overview of academic skills and resources available to College of Science students. Responsibilities include: leading and teaching this 1 credit course, syllabus development, introduction of Learning Catalytics online assessment and participation tool, grading and managing Webcampus course site, and managing 10 senior undergraduate Peer Leaders.

**BIOL 792 Graduate Course: Scientific Teaching for Future College Faculty (2 cr)**

Spring 2016 (11 graduate students)

**Role: Co-instructor** with Dr. Elena Pravosudova, **University of Nevada, Reno**

Graduate course on the theory and practice of Scientific Teaching. Reviewed core concepts in student-centered learning, backward design, scientific teaching, active learning, assessment, and diversity. Designed and implemented assessment tools that gauge learning and teaching.

**SCI 499 Training in Science Leadership (1 to 3 cr.)**

Spring 2015 (6 students) and 2016 (10 students)

**Role: Instructor of Record, University of Nevada, Reno**

This is a course that is designed to train undergraduates for our recently developed Biology Department Peer Advising Program. These undergraduates provide general advising support for Biology and Neuroscience majors in their junior or senior years. Responsibilities include: syllabus development, assessment design and implementation, leading biweekly meetings, grading and managing Webcampus course site.

**ScienceFIT Freshmen Bootcamp for Academic Success (<https://www.unr.edu/nevadafit>)**

August 2014, 2015 and 2016.

**Role: Graduate TA, University of Nevada, Reno**

This Freshman Intensive Transition program (Life & Physical Sciences) is a 5-day academic bootcamp designed to increase success and completion for incoming college students. Responsible for maintenance of course website, grading, and program development and facilitation

**BIOL 192 Principles of Biological Investigation.**

Spring 2012, Fall 2013, Spring 2013

**Role: Head Graduate TA, University of Nevada, Reno**

Responsibilities include: lecturing during each lab, setting up experiments, grading lab work, quizzes, and scientific papers, and conducting office hours.

**Undergraduate Teaching Assistant, SUNY-ESF, Dendrology**

Fall 2009

Responsible for teaching tree identification using bark, leaves, fruit and bud characteristics. Instructed students on the cultural, medicinal or culinary uses of northeastern tree species.

**UNDERGRADUATE AND GRADUATE STUDENT MENTORSHIP**

**Independent study:** Pia Martin (Fall 2021, NRC398)

**Bachelor's Degree With An Individual Concentration (BDIC), Faculty Sponsor (UMass Amherst):** Brooklyne Mitchell-Arno (Fall 2022-Spring 2023, Conservation Journalism)

**Commonwealth Honors College (UMass Amherst):** Patrick Ewick (Fall 2021, NRC HI564, Honors Independent Study), Gwyneth Rowland (Spring 2022, Honors Thesis, NRC 499T/P) Brahm Antwerp (Fall 2022-Spring 2023, Honors Thesis, NRC 499Y)

**Master's students (UNR):** La Shay Mayfield (2013-2015); Ellen Wilson (2019- ongoing)

**UG Peer Advisors and/or Peer Leaders (2014-2016, UNR):** Kincade Stirek (2014), Taylor Tindall (2014), Kendel Warner (2014), Vicente Gapuz (2014), Robyn Rowell (2014), Daniel Gow (2014), Natalie Kulaga (2014), Owen Hardee (2014), Michelle Chenin (2014), Morgan Nuckolls (2014), Megan Martin (2014), Nina Anderson (2014-2015), Mohammad Sayafi (2014-2015), Juliana Hansen (2015), Angelica Perez (2015), Karina Sotomayor (2015), Kristen Hess (2015), Davis Francis (2015), Deanna Ta (2015), Alisha Bhatia (2015), Crystal Herrera (2015-2016), Brenda Morales (2015), Carlos Carrasco (2015), Ashley Olsen (2016), Didra Reese (2016), Jordan Clark (2016), Jordan Tice (2016), Kristopher Aligchi (2016), Norma Angelica Perez (2016), Rachel Foley (2016), Rebecca Frandssen (2016), Victoria Albanese (2016)

**UG Lab mentees (UNR):** Colline DeBray (2020), Fallon Arlin (2020), Brandon Reeder (2020), Margarita Vargas Estrada (2019-2020), Madison Harris (2019-2020), Molly McVicar (2019-2020), Shannon Wyman (2019), William Ross (2019), Cathryn Adams (2018), Molly Willoughby (2018), Morgan Ferguson (2018), Shannon Domina (2015), Daniel Jara (2014-2015), Benjamin Platt (2014), and Alex King (2013-2014)

**UG Field mentees (UNR):** Katherine King (2013-2015), Benjamin Platt (2015), Rebecka Bittner (2014), Megan Martin (2015), and Esmeralda Aguilar (2015)

## **RESEARCH PROJECTS AND SCHOLARLY ACTIVITIES\***

**UMass Amherst Wildlife Camera Project** a noninvasive wildlife monitoring project with 40 camera traps located in habitat types that span the wildland-urban interface in the Town of Amherst, started in 2016 to understand wildlife diversity and urban habitat use with data collected and managed by undergraduate researchers and students enrolled in NRC 211 and NRC 564

- Maxwell Francke, 10-hour undergraduate research assistant (Spring 2021-ongoing)
- Undergraduate student volunteers: Brian Vergato (Spring 202), Gabby Motta (Spring 2022)

**Sustainable EweMass** a collaborative, cross-campus, interdisciplinary project using sheep as a touchpoint for thinking about the past, present, and future at UMass Amherst and beyond. The project offers an opportunity for students, faculty, staff and the broader community to collectively explore the multiple dimensions of land management and animal husbandry, their environmental and social impacts, and issues of social justice, community and access to the natural world. Sustainable EweMass engages in the spaces of environmental education, community-scale sustainability, wildlife biology and ecology, farming, art history and landscape architecture. Check out more at our website: <https://www.ewemass.org/>

**Conservation Genetics & Genomics** using molecular and bioinformatic tools to understand temporal and spatial patterns of population genetic diversity in a range of ecological systems:

- *Population genetics and connectivity of the American pika (Ochotona princeps)*
- *Genetic monitoring of the Lahontan cutthroat trout (Oncorhynchus clarkii henshawii)*
- *Population genomics of Columbia spotted frogs (Rana luteiventris) in the Great Basin*
- *Population genomics of a Neotropical host-parasite system (Myrsidea)*
- *Bodie Pika Census, Genetics & Microclimate Monitoring,*
- *Pet Food Mercury and Genetics Project*

**Course Undergraduate Research Experience (CUREs)** integrating real-world research protocols, field work and data analysis into the undergraduate biology classroom

- Squirrel-Net Behavioral Ecology Project, Participating Institution, NRC 211

\*More detail and project information can be found at <http://kellybrieklingler.weebly.com/>

## **PEER REVIEWED PUBLICATIONS**

ORCID iD: 0000-0002-6657-5857

- [1] **KB Klingler**, LB Nichols, E Hekkala and MM Peacock. 2022. Life on the edge - a changing genetic landscape within an iconic American pika metapopulation over the last half century. *Oecologia, in review.*
- [2] Borokini, IT, **KB Klingler**, MM Peacock. 2021. Life in the desert: The impact of geographic and environmental gradients on genetic diversity and population structure of *Ivesia webberi*. *Ecology and Evolution* <http://dx.doi.org/10.1002/ece3.8389>
- [3] Dunham-Cheatham SM, **KB Klingler**, MV Estrada, MS Gustin. 2021. Using a next-generation sequencing approach to DNA metabarcoding for identification of adulteration and potential sources of mercury in commercial cat and dog foods. *Science of the Total Environment*. <https://doi.org/10.1016/j.scitotenv.2021.146102>
- [4] **Klingler, KB**, Parchman T, Ray C, Jahner J and MM Peacock. 2021. Genomic variation in the American pika: signatures of geographic isolation and implications for conservation. *BMC Evolutionary Biology*. <https://doi.org/10.1186/s12862-020-01739-9> DRYAD [doi:10.5061/dryad.mcvdncjww](https://doi.org/10.5061/dryad.mcvdncjww)
- [5] Westover, ML, Lizewski, K, **Klingler KB**, Smith F. 2020. Isotopic niche of the American pika (*Ochotona princeps*) through space and time. *Canadian Journal of Zoology*. <https://doi.org/10.1139/cjz-2019-0212>
- [6] Dunham-Cheatham, SM, **Klingler, KB**, Peacock, M, Teglas MB, and MS Gustin. 2019. What is in commercial cat and dog food? The case for mercury and ingredient testing. *Science of the Total Environment*. <https://doi.org/10.1016/j.scitotenv.2019.05.337>
- [7] **Klingler, KB**. An integrated investigation of the population genetics, physiological stress and movement patterns in the American pika (*Ochotona princeps*). Doctoral Dissertation. University of Nevada, Reno; 2017.
- [8] Nichols, LB, **KB Klingler**, and MM Peacock. 2016. American pikas extirpated from the Masonic Mining District. *Western North American Naturalist*. <https://doi.org/10.3398/064.076.0203>
- [9] Wilkening, JL, Ray, C, Ramsay, N and **K Klingler**. 2015. Alpine biodiversity and assisted migration: The case of the American pika (*Ochotona princeps*). *Biodiversity Conservancy International*. <https://doi.org/10.1080/14888386.2015.1112304>

## **REPORTS**

- [1] Peacock M.M and **KB Klingler**. 2021. Wild LCT Population Monitoring: Genetic Evaluation of LCT Recovery in the Truckee River, California/Nevada. Final Report to the U.S. Fish and Wildlife Service, Region 6, Reno, Nevada, Contract Agreement # F16AC00006

## **PRESENTATIONS**

- [1] Klingler, K.B. *Paleoecological investigation to compare imperiled inland salt marshes in*

Michigan & New York. SUNY-ESF research poster symposium.

[2] Klingler, K.B. *Comparison of two sampling methodologies for rapidly assessing cichlid fish assemblages in rivers of northeastern Costa Rica*. REU research symposium, La Selva Research Station, August 2009.

[3] Klingler, K.B. 2010. *Fishery Management Plan for Lucky Star Ranch*. SUNY-ESF Senior Synthesis presentations, May 2010

[4] Klingler K.B, MM Peacock and V Kirchoff. *Population structure of the American pika (Ochotona princeps) in Bodie, CA: A historical and non-invasive investigation*. The Western Section of The Wildlife Society Annual Meeting, poster session, Jan. 2014.

[5] Klingler, K.B., MM Peacock. *A temporal investigation of population genetic structure in the American pika (Ochotona princeps) in Bodie, CA*. 3<sup>rd</sup> Conference of the North American Pika Consortium, paper presentations, April 2015.

[6] Klingler, KB. CJ Downs, and MM Peacock. A temporal investigation of physiological stress for American pika (*Ochotona princeps*) populations in the Sierra Nevada. American Society of Mammalogists, Minneapolis, Minnesota, poster session, June 2016.

[7] Klingler, KB. CJ Downs, and MM Peacock. A temporal investigation of physiological stress for American pika (*Ochotona princeps*) populations in the Sierra Nevada. UNR College of Science Poster Competition, poster session, November 2016.

[8] Klingler, KB, CJ Downs, and M Peacock. The effects of territory quality, genetic variability, and sex on individual physiological stress for the American pika (*Ochotona princeps*) within high-elevation talus habitat in California, 4<sup>th</sup> Conference of the North American Pika Consortium, oral presentation, February 2017.

[9] The importance of local population monitoring in the Great Basin: a case study investigating genetic change within the American pika (*Ochotona princeps*) population in Bodie, California, USA, 4<sup>th</sup> Conference of the North American Pika Consortium, poster and 5-min speed talk, February 2017

[10] Life on the edge-the American pika in Bodie, California: a 65- year case study of genetic erosion in a species of special concern, North American Congress for Conservation Biology 2018, 15 min oral presentation, July 2018.

[11] Life on the edge-the American pika in Bodie, California: a 65- year case study of genetic erosion in a species of special concern, The Wildlife Society, Western Section 2019, 15 min oral presentation, Feb 2019.

[12] The American Pika and Lahontan Cutthroat Trout: Conserving Two Iconic Western U.S. Species, Wild Speaker series, Friends of Nevada Wilderness, Sep 3, 2020.

## **PROFESSIONAL DEVELOPMENT, FELLOWSHIPS AND WORKSHOP TRAINING**

*\*The following workshops, bootcamps or coursework represents training in a participant role.*

**Civic Engagement & Service-Learning Faculty Fellow for AY 2021-22, UMass Amherst** an application based, year long opportunity for faculty who would like to develop new learning opportunities for their students in collaboration with off-campus community partners. Fellows study how to integrate community engagement and service-learning into their courses and are awarded a \$1000 research stipend to be used for research.

**LGBTQIA+ Foundations and Allyship course** (completed May 2022, developed by UMass Amherst and the Stonewall Center) This voluntary and self-paced course offers an independent learning experience that is intended to take a relational approach to learning concepts around gender, sexuality, and gender identity.

**Contemplative Pedagogy Group member, UMass Amherst** (spring 2021-ongoing) A voluntary group for educators and administrators that support deep engagement with course concepts, student resiliency,

stress management, inclusive teaching, and sense of belonging through regular contemplative pedagogy meetings during the academic year.

**BIOL 751: Diversity in STEM: decolonizing the institution** (fall 2020 semester, auditing course): a discussion-based course introducing topics related to the equity of education including the history of racism in science, ableism in academia, and implicit biases in hiring. Voices of non-white, indigenous and LGBTQIA+ perspectives are emphasized and teaching and mentoring strategies explored.

#### **Collaborative Institutional Training Initiative (CITI)**

Working with the IACUC - Investigators, Staff and Students (ID 18192; expires 6/2023), Working With Amphibians in Research Settings (ID 18195; expires 6/2023), Wildlife Research (ID 99232; expires 6/2023) and Basic Introduction to Biosafety (ID 188794; expires 6/2021), Working with sheep and goats (ID 48783261 ; expires 5/2025)

**BIOL 792 Bioinformatics and Data Science** (fall 2019 semester, auditing course): a course reviewing the bioinformatic and data science skills necessary to troubleshoot and manage large datasets. Introduction to Linux and Python programming with an emphasis on version control, remote clusters, data cleaning tools and relational databases.

**2019 Comparative Phylogenomic Methods in R, July 31<sup>st</sup>, 2019** this 4-hour workshop covered loading and plotting phylogenetic trees, estimating phylogenetic signal, performing ancestral state reconstructions and basic evolutionary model fitting (co-led by Dr. Julie Allen and Dr. Hannah Owens).

**2019 Python Bootcamp, February 16<sup>th</sup>, 2019** this 6-hour workshop covered the fundamentals of the Python programming language and presented applied problems for practice with data science in the Anaconda Distribution (co-led by Dr. Kevin Shoemaker and Dr. Scott Kelley).

**BIOL 607 Genomics and Bioinformatics** (fall 2018 semester, auditing course): a course using computers to learn how genomic and other “omics” datasets are generated, annotated, assembled and analyzed.

**2018 UNR Future Faculty Teaching with Technology** certificate program (fall 2018 semester): a semester-long program serving graduate students and postdoctoral scholars who aspire to be teaching professors. Introduction of how to apply course design, pedagogy and effective integration of education technology (e.g. discussion boards, participation polling technology) into teaching and learning.

**2018 Wildlife Insights** (July 2018): a workshop reviewing global camera trap data management and analytics platform for wildlife conservation, monitoring, education and outreach.

**EECB 751 Introduction to Bayesian Modeling with STAN** (spring 2018, audited course): a course introducing Bayesian data analysis using the Stan and R programming languages.

**2018 UCLA/La Kretz Conservation Genomics workshop** (March 2018): a week-long program providing hands-on experience in the collection, troubleshooting and analysis of large genomic datasets for conservation-relevant problems.

**2016 & 2018 Northern Nevada Diversity Summit** (April 2016 , April 2018 and April 2019): an annual summit presenting challenges related to equity and diversity within higher education. Provides a space to share resources, programs, research and discourse regarding the realities of ensuring that inclusivity, accessibility and equity are considered by higher education practitioners

**UNR BioCareers**, a bimonthly workshop focused on professional development for ecologists.

## **OUTREACH ACTIVITIES**

**Mass Envirothon**, Wildlife Session Leader, Spring Workshop at Mt. Toby (April 9,2022) and Wildlife Station scorer at the 2022 Massachusetts Envirothon Competition (May 12, 2022)

### **EECB Graduate Student Service and Outreach**

UNR Museum of Natural History, Volunteer Leader, K-12 school groups, Spring 2015-2017

Big Brother/Big Sister Science Fair at UNR, Annually in March

2016 and 2017 Western Regional Science Fair Judge

2015 and 2016 Power of the Purse Volunteer for Nevada Women's Fund

EECB Admissions Representative, July 2016-2017.

EECB Graduate Student President, July 2015-2016.

Colloquium Logistics Committee, 2015-2016

New Student Orientation Committee, 2014 and 2015

Outreach Coordinators, 2014 and 2015

IV North American Pika Consortium (NAPC) planning committee 2017

## **FUNDED PROPOSALS**

MSP Flex Grant for Teaching/Faculty Development. 2022. \$500.00

Nevada INBRE/VPRI Scientific Core Service Award. 2019. \$3000.00

Bodie Temperature Logger Project. Bureau of Land Management. 2016. \$6623.00

UNR Instructional Enhancement Grant. 2016. \$5000.00

Society for Northwestern Vertebrate Biology Scholarship. 2016. \$1000.00

Eppley Foundation for Scientific Research (with M. Peacock). 2015. \$15,719.33

Bodie Foundation Grant. 2015. \$1,300.00

EECB Summer Stipend. 2015. \$2500.00

UNR GSA Travel Grant. 2015. \$700

UNR Graduate Research Grant. 2014-2015. \$2500.00

American Society of Mammalogists. 2014-Grant-in-Aid. \$1500.00

National Geographic Young Explorer. 2013-2014. \$4750.00

Jerry & Betty Wilson Scholarship 2013-2014. \$4000.00

UNR Graduate Research Grant. 2012-2013. \$2500.00

## **SCHOLARSHIPS & AWARDS**

Squirrel-Net Travel Award. 2021. American Society of Mammalogists fee waiver

UNR Biology Department Outstanding Teaching Assistant Award. 2017. \$500.00

Meggin McIntosh Emphasis on Excellence Scholarship. 2016. \$2500.00

Diana Hadley-Lynch Endowed Scholarship 2016. \$1200.00

EWB Math & Science Scholarship -Nevada Women's Fund 2015.\$3500.00

Soroptimist International-Jack Simon Graduate Scholarship 2014. \$4000.00

NWF Board Alumnae Scholarship. Nevada Women's Fund 2014. \$2200.00

Dean's Graduate Scholar. 2013-2014. \$6000.00

ACCESS Scholarship. 2012. \$2500.00

Class of 1951 Alumni Scholarship

New York Water Environment Association Central Scholarship Fund

SUNY Chancellor's Award for Student Excellence 2010



Departmental Scholar-Conservation Biology 2010  
Alumni Memorial Scholarship Senior Award 2010  
NSF REU at La Selva Research Station in Costa Rica

### **PROFESSIONAL MEMBERSHIP**

Massachusetts Society of Professors (MSP/MTA/NEA)  
Society for Conservation Biology (North America), Conservation Genetics Working Group  
American Society of Mammalogists  
North American Pika Consortium

### **PROFESSIONAL EMPLOYMENT**

**Marine Animal Rehabilitation Center (MARC), University of New England, Biddeford, ME** Intern, December-March 2011 Provided care to stranded phocid seals, sea turtle and cetaceans, responsible for feeding, restraint, kenneling & weights, water quality analysis, necropsy experience, field response, medical assistance, cleaning facility, admit & release of stranded animals, community education.

**Nature's Classroom, Ocean Park, ME, Teacher, September-November 2010** Taught natural science, physical science and outdoor education concepts to K-12 students against the natural backdrop of marine coast, tidal salt marsh and northern hardwood forest. Examples of classes taught: Human Anatomy, Geodome Structure Building, Water Rocket Physics, Predator vs. Prey Relationships, Deer Survival, Cell Biology, Wild Edibles, Tree Identification, General Ecology.

**New York State Department of Environmental Conservation, Warrensburg, NY,** Environmental Educator, June-August 2010 and 2011 Environmental educator at one of the four NYSDEC environmental education camps located in the southern Adirondack mountains (Pack Forest). Responsible for teaching wetland ecology, herpetology, basic ecology, environmental stewardship, leave no trace principles. Led overnight hiking excursions and camping trips.