

CARRIE A. CIZAUSKAS

137 Mulford Hall
University of California, Berkeley
Berkeley, CA 94720 USA

Office: +1, 510-643-1227
caciz@nature.berkeley.edu

EDUCATION:

- 8/05-Present
Berkeley, CA *UNIVERSITY OF CALIFORNIA, BERKELEY*
Ph.D. Program, Department of Environmental Science, Policy, and Management
Ph.D. expected 12/10
Thesis: The ecology of anthrax from an immunological perspective: seasonal aspects of host susceptibility.
- 8/01-5/05
Ithaca, NY *CORNELL UNIVERSITY COLLEGE OF VETERINARY MEDICINE*
D.V.M. awarded 5/05
Focused on wildlife and zoological veterinary medicine.
- 9/94-5/98
Madison, WI *UNIVERSITY OF WISCONSIN-MADISON*
College of Letters and Science
B.S. (Hons) - Zoology awarded 5/98.
Honors Thesis: Preferential sequestration of T cell subsets leading to cerebral and pulmonary pathology during experimental malaria

HONORS, AWARDS, GRANTS, SCHOLARSHIPS:

- 6/08
Berkeley, CA *THE ANDREW AND MARY THOMPSON ROCCA SCHOLARSHIP IN ADVANCED AFRICAN STUDIES*
University of California, Berkeley
- 3/08
Berkeley, CA *NATIONAL INSTITUTES OF HEALTH ECOLOGY OF INFECTIOUS DISEASES GRANT*
Contributing Author
Wrote several sections of this Primary Investigator grant, awarded to support four years of research on the University of California, Berkeley-Etoshia Anthrax Research project in Etoshia National Park, Namibia. This grant supports the work of eight Ph.D. students, one post-doctoral researcher, four masters students, and one bachelors of technology student.
- 4/06
Berkeley, CA *THE ANDREW AND MARY THOMPSON ROCCA SUMMER PRE-DISSERTATION RESEARCH AWARD IN AFRICAN STUDIES*
University of California, Berkeley
- 2/06
BLACKWELL PUBLISHING VALUED REVIEWER AWARD
Awarded one of four awards for 2005 for the best journal article peer reviews for all of Blackwell Publishing's scientific journals; for a joint review done with two other students.
- 5/03
Ithaca, NY *COMPARATIVE ANATOMY AWARD*
Cornell University College of Veterinary Medicine
Awarded scholarship to study comparative anatomy of fish and invertebrates at Aquavet II in Woods Hole, MA.
- 8/01, 8/02, 8/03, 8/04
Ithaca, NY *CLARK AND MARTHA BAKER SCHOLARSHIP*
Cornell University College of Veterinary Medicine
- 5/98
Madison, WI *COLLEGE OF LETTERS AND SCIENCE DEAN'S PRIZE*
University of Wisconsin - Madison
Awarded Dean's Prize for the largest college at the University of Wisconsin, for outstanding academic and extracurricular achievements during undergraduate education.
- 5/97
Madison, WI *ANNA K. BIRGE ZOOLOGY SCHOLARSHIP*
Department of Zoology, University of Wisconsin - Madison

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- 4/97
Madison, WI
COLLEGE OF LETTERS AND SCIENCE HONORS THESIS RESEARCH GRANT
University of Wisconsin - Madison
Awarded grant to pursue senior honors thesis research on immunology and pathology of cerebral malaria.
- 4/97
PHI BETA KAPPA HONOR SOCIETY
- 2/94-5/98
Madison, WI
UNIVERSITY OF WISCONSIN MEDICAL SCHOLARS PROGRAM
University of Wisconsin Medical School
One of 50 Wisconsin high school seniors to be awarded conditional acceptance to the University of Wisconsin Medical School.

EXPERIENCE AND PROFESSIONAL ACTIVITIES:

- 6/06-Present
Berkeley, CA
Etosha, Namibia
UNIVERSITY OF CALIFORNIA, BERKELEY AND ETOSHA NATIONAL PARK, NAMIBIA
Researcher
Conducting PhD dissertation research on the seasonality of host susceptibility to anthrax in Etosha National Park, Namibia by examining how host immune status and function, as well as immune modulators such as stress, coinfections, and reproduction, change throughout the year.
- 2/8-Present
Namibia
UNIVERSITY OF CALIFORNIA, BERKELEY-ETOSHA ANTHRAX PROJECT
Etosha Ecological Institute (EEI) Laboratory Coordinator
In charge of all operations and maintenance of the anthrax/cell and molecular biology laboratory at the EEI for the four-year, NIH-Ecology of Infectious Diseases Program-funded Berkeley-Etosha anthrax project.
- 12/07-Present
AFRICAN JOURNAL OF ECOLOGY
Member of International Reviewer Panel
Review submitted articles as part of this panel that was established to improve, through mentorship, the quality and impact of *African Journal of Ecology* articles.
- 2/6/05-2/14/0
Zimbabwe
ZIMBABWE VETERINARY ASSOCIATION-WILDLIFE GROUP COURSE ON CHEMICAL AND PHYSICAL RESTRAINT OF WILD ANIMALS
Attended this renowned wildlife capture and anesthesia field course taught by wildlife veterinarians from all over Africa. Certified by the ZVA in game capture techniques and the use of controlled capture drugs.
- 10/24-10/28/05
Zimbabwe
THE MALILANGWE TRUST ANTHRAX WORKSHOP
Rapporteur
Acted as rapporteur for the "Workshop to formulate preparedness and action plans for anthrax epizootics in wildlife zones." Took notes on all presentations and discussions and compiled summaries to assist meeting organizers in achieving the meeting agenda. Helped to edit the conference summary for the workshop, published in *Emerging Infectious Diseases* in 2006.
- 5/05-8/05
Ithaca, NY
CORNELL UNIVERSITY DEPARTMENT OF CLINICAL SCIENCES
Laboratory Technician
As research technician for a study concerning immuno-pathology of COPD in horses, performed broncho-alveolar lavages for subsequent RTPCR for cytokine mRNA analysis. Also helped to organize the World Equine Airways Symposium, held at Cornell in July, 2005.
- 4/1/05-5/15/05
Washington, DC
THE NATIONAL ZOOLOGICAL PARK
Veterinary Preceptor
Was responsible for long-term care for several patients, monitoring patients during anesthesia, assisting with treatment decisions, participating in rounds. Worked with a vast array of species. Completed a retrospective research project regarding avian tuberculosis (TB) in the park, wrote a literature review of avian TB, and provided veterinary and zookeeping staff with recommendations for preventing and managing TB cases.

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3/1/05-3/21/05
Sausalito, CA

THE MARINE MAMMAL CENTER
Veterinary Preceptor

Assisted with animal rescues and releases, treatments, feedings, restraint, physical examinations, anesthesia, and necropsies. Worked primarily with elephant seal pups, California sea lions, and harbor seal pups.

8/27/04-9/25/04
Yulee, FL

WHITE OAK CONSERVATION CENTER
Veterinary Preceptor

Helped with animal capture and restraint, ran anesthetics, provided long-term medical care for several patients, assisted with feedings, performed necropsies. Helped hand-rear and treat two herpes virus-infected cheetah cubs. Also worked with maned wolves, Florida panthers, Mississippi sandhill cranes, black, white, and Indian one-horned rhinos, Grevys zebras, and gerenuk.

5/18/03-5/30-03
Woods Hole, MA

AQUAVET II

Accepted into this aquatic veterinary medicine course organized by Cornell University College of Veterinary Medicine and the University of Pennsylvania Veterinary College. Studied gross pathology and histopathology of invertebrates and fish.

12/01-2/04
Ithaca, NY

CORNELL UNIVERSITY DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY
Aquatics Lab Assistant

Fed fish, and cleaned and monitored research and ornamental fish tanks. Assisted in research studies, data collection, and necropsies. Helped set up and monitor educational equipment. Took photographs and made illustrations for lab presentations and papers.

4/02-4/03
Ithaca, NY

SPECIAL SPECIES SYMPOSIUM (SSS)
Committee Member

Helped to organize this annual gathering of veterinarians, researchers, and veterinary students interested in wildlife, zoo, and exotic animal medicine. Personal duties included designing the SSS logo, updating the SSS website, advertising the symposium, and helping others to recruit speakers, wet lab leaders, and funding.

5/19-6/15/02
Woods Hole, MA

AQUAVET I

Accepted into this course, organized by the University of Pennsylvania and Cornell University Veterinary Colleges. Studied fish anatomy, histology, evolution, pathology, and microbiology. Performed fish and marine mammal necropsies, collected specimens in the field, and conducted a month long aquarium trial. Studied aquarium systems and aquaculture. Learned about medical and surgical techniques for treating invertebrates, fish, aquatic reptiles, and marine mammals. Presented a lecture on Cetacean evolution.

9/01-2/04
Ithaca, NY

CORNELL WILDLIFE CLINIC
Supervisor

Assisted in the care of native wildlife species, including raptors, water fowl, songbirds, reptiles, and small mammals. Decided upon necessary treatments, handled and restrained animals, prepared diets, administered medications, and updated charts. Supervised clinic volunteers. Worked 3-6 days (10-20+ hours) per month.

6/01-9/01
Ithaca, NY

QUALITY MILK PROMOTION SERVICES OF CORNELL UNIVERSITY
Research Technician

Assisted with a research project regarding temporal and spatial involvement of T cell subsets during *E. coli* mastitis in dairy cattle. Helped develop experimental design and protocols. Worked to perfect cell isolation, FACS staining, and gathering and analyzing of flow cytometry data. Gathered research samples from dairy farms. Quarter-milked trial cows five times per week from 8/01-9/01.

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- 4/00-4/01
St. Louis
WASHINGTON UNIVERSITY SCHOOL OF MEDICINE DEPARTMENT OF RADIOLOGY
Clinical Research Coordinator
Screened patients daily in five intensive care units for inclusion in two drug studies involving ARDS and sepsis. Enrolled patients, administered study drugs via endotracheal tube or catheter, took research blood samples, completed case report forms and institutional review board (IRB) documents, and followed up on patients for up to one year. Read and scored chest radiographs to screen patients for NIH-funded gamma-scintigraphy and lung injury study. Initiated new drug studies by completing IRB and company paperwork.
- 4/99-5/00
St. Louis
SATURDAY NEIGHBORHOOD HEALTH CENTER
Student Organized Clinic Committee
Ran a free health care clinic for St. Louis residents without health insurance, in conjunction with the Family Care Health Center. Met weekly to address clinic reform, organizational policy, financial issues, and public relations work. Organized a yearly pediatric immunization drive. Projects included organizing two "dermatology days" at the Clinic, and working to create a Clinic-based selective in the medical school first year curriculum. Personal duties also included recruitment of a physician volunteer each week.
- 4/97-1/98
Madison
COLLEGE OF LETTERS AND SCIENCE HONORS PROGRAM SENIOR THESIS
Studied preferential sequestration of T cell subsets leading to cerebral and pulmonary pathology during experimental malaria. Presented thesis work at the Annual Convention of the American Society of Tropical Medicine and Hygiene, 12/97 in Orlando, FL.

PUBLICATIONS AND PRESENTATIONS:

Turner WC, **CA Cizauskas**, and WM Getz. In Prep. Variation in fecal moisture may bias quantitative estimates of parasite abundance.

Cizauskas CA. 2008. Book Review: Zoo Animal & Wildlife Immobilization and Anesthesia. *J Wildlife Dis* 44(2); 528-530.

Poster: "The Ecology of Anthrax from an Immunological Perspective: Seasonal Aspects of Host Susceptibility" at the Etosha Centenary Research Symposium, 6/28-6/30/07 in Namibia.

Clegg S, and the Workshop Working Group (Amanfu W, Bengis R, Beyer W, **Cizauskas C**, et al). 2007. Preparedness for anthrax epizootics in wildlife areas. *Emerg Inf Dis* 12(7). Available from <http://www.cdc.gov/ncidod/EID/vol12no07/06-0458.htm>.

Cizauskas CA, Yanez DM, Batchelder JB, van der Heyde HC, Weidanz WP. 1997. Preferential Localization of CD8+ T Cells in Sites of Pathology During Experimental Malaria; Abstract. *Am J Trop Med Hyg.* 57(3): 109-110..

Presentation: at the Annual Convention of the American Society of Tropical Medicine and Hygiene, 12/97 in Orlando, FL.

TEACHING EXPERIENCE

Graduate Student Instructor (GSI) for Integrative Biology 131L (UC Berkeley), Human Anatomy Lab: Taught 2006 summer session of this lab, a course taught completely by GSIs. Created and gave daily lectures, wrote quizzes, wrote exams, and graded one of three lab sections (approximately 20 students each).

Guest-Lecturer in Anthropology 178A/278A (Stanford University), Past and Present Pestilence: An Interdisciplinary Examination of the Impact of Zoonotic Diseases: Gave a one hour lecture regarding the ecology of anthrax. May, 2008.

Two-time **Guest Lecturer** in ESPM 114 (UC Berkeley), Wildlife Ecology: Gave a one hour lecture regarding wildlife infectious disease ecology. March, 2006, April, 2007.

Two-time **Guest Lecturer** in Molecular and Cell Biology 50 (UC Berkeley), The Immune System and Disease: Gave a one hour lecture regarding the epidemiology, ecology, and immunology of anthrax. February, 2006, March, 2007.

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VETERINARY ACTIVITIES

- 10/08-Present *UNITED KINGDOM VETERINARY LICENSE IN GOOD STANDING*
Registered as a Member of the Royal College of Veterinary Surgeons (MRCVS). License maintained in active status.
- 9/08-Present *NAMIBIA CONDITIONAL VETERINARY LICENSE*
Licensed as a veterinarian with the Veterinary Council of Namibia to practice wildlife medicine under the responsibility of Dr. Mark Jago in order to conduct wildlife immobilizations in Etosha National Park, Namibia for PhD dissertation research.
- 1/06-Present *CALIFORNIA VETERINARY LICENSE IN GOOD STANDING*
Passed the California Veterinary Medical Board Licensing Examination in December, 2005 to obtain a California veterinary license. License maintained in active status.

SOCIETY MEMBERSHIP

- 1/07-Present *CALIFORNIA VETERINARY MEDICAL ASSOCIATION*
- 5/05-Present *AMERICAN VETERINARY MEDICAL ASSOCIATION*
- 8/01-5/05 *STUDENT CHAPTER OF THE AMERICAN VETERINARY MEDICAL ASSOCIATION (AVMA)*

ADVISORS AND COLLABORATORS:

Wayne Getz: Primary advisor; Department of Environmental Science, Policy, and Management, University of California, Berkeley
Russell Vance: Co-advisor; Department of Molecular and Cell Biology, University of California, Berkeley
Justin Brashares: Professor; Department of Environmental Science, Policy, and Management, University of California, Berkeley
Neville Pitts: Professor; Department of Physiology, University of the Witwatersrand, South Africa
Werner Kilian: Chief Conservation Scientist, Etosha Ecological Institute, Namibia
Wilferd Versfeld: Chief Science Warden, Etosha Ecological Institute, Namibia
Mark Jago: Wildlife Veterinarian, Etosha National Park
Conrad Brain: Wildlife Veterinarian, Windhoek, Namibia
Peter Morkel: Wildlife Veterinarian, Frankfurt Zoological Society