75 Liberty Place Weehawken, NJ 07086 ▪ (651) 308-5498 ▪ mrostal@alumni.princeton.edu

**EDUCATION:**

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| **University of Minnesota**  *Doctor of Veterinary Medicine*  *Master of Public Health*  *Master Thesis:* An investigation of risks for infection of Rift Valley fever virus during inter-epidemic (August – December 2006) and epidemic (December 2006-January 2007) periods in Garissa, Kenya | St. Paul, MN  September 2004 - May 2008  May 2005 - November 2007 |
| **Princeton, University**  *A.B., Ecology and Evolutionary Biology Cumme Laude*  *Senior Thesis:* A comparison of the feeding behaviors of equids and cattle: A study of grassland competition between cattle and zebras and donkeys | Princeton, NJ  September 1999 - May 2003 |

**OTHER EDUCATIONAL EXPERIENCES:**

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| **Smithsonian Tropical Research Institute**  *Ecology and Evolutionary Biology Field Semester*  *Coursework Includes:* Tropical Ecology, Archaeology and Paleo-ecology of Pre-Columbian Panama, Life Histories and Physiologies of Tropical Birds, and Coral Reef Ecology | Gamboa, Panama  February 2002 - May 2002 |
| **Yale University**  *Summer Session*  *Coursework Includes:* Introduction to Archaeology, From Crusade to Enlightenment: Religion and Society in Medieval and Early Modern Europe | New Haven, CT  June 1998 - August 1998 |

**VETERINARY WORK EXPERIENCE:**

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| **EcoHealth Alliance**  *Senior Research Scientist*  *PREDICT 2 EHA Surveillance Coordinator*  *PREDICT 2 Bangladesh Country Liaison*  *Field Veterinarian*  460 West 34th Street - 17th Floor, New York, NY 10001-2320 | New York, NY  April 2010-present |
| **Columbia University**  *Adjunct Research Scientist* | New York, NY  December 2010 - present |
| **Tahoma Veterinary Hospital**  *Associate mixed animal practitioner*  3317 224th St E Spanaway, WA 98387 | Spanaway, WA  June 2008- March 2010 |

**4th year externships:**

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| * **Brookfield Zoological Park**   *Duties Include:* Monitor anesthesia, perform physical exams, venipuncture, write all medical records. | Brookfield, IL  February - March 2008 |
| * **Smithsonian National Zoological Park**   *Duties Include:* Monitor anesthesia, venipuncture from all animals, trained to dart zoo animals. | Washington DC  November – December 2007 |
| * **Tufts University Emergency Rotation**   *Duties Include:* Perform triage, emergency treatments and help plan diagnostics and overnight care. | Grafton, MA  October 2007 |
| * **The Raptor Center**   *Duties Include:* Primary case responsibility, performed orthopedic surgery. | St. Paul, MN  June 2007 |
| * **The Marine Mammal Center**   *Duties Include:* Monitor anesthesia, administer medications, assist with necropsies, venipuncture and restrain marine mammals.  *Project:* Determine normal hematological and biochemical values for northern fur seals. | Sausalito, CA  May - June 2007 |

**Prior to veterinary school:**

*Rehabilitation intern:*

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| * **Alaska SeaLife Center**   Full-time summer intern | Seward, AK  Summer 2001 |
| * **Wildlife Rescue Inc.**   Part-time summer intern | Palo Alto, CA  Summer 2000 |

Worked with seals, sea otters, sea birds and songbirds. Tube fed, weaned and restrained seals and sea otters. Performed physical exams and triage.

**RESEARCH EXPERIENCE:**

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| * **Ecosystem Approach for Biodiversity Monitoring and Conservation**   *USFW*  *Principal Investigator:* ***Melinda Rostal, DVM, MPH***  Working with a team of wildlife biologists, ecologists, pathologists and veterinarians we are developing a workshop to improve One Health understanding and monitoring skills for wildlife workers (rangers) and a more theoretical course for directors and managers of wildlife conservation areas in and around the Janos Biosphere Reserve. The workshops will be held in March of 2015. | Chihuahua, Mexico May 2013-present |
| * **Rift Valley Fever Virus**   *Principal Investigator: William Karesh, DVM*  As Co-PI: Formed a team of international experts on modeling, predicting and diagnosing Rift Valley fever virus (RVFV).Developed a project that has been funded by DTRA to study RVFV ecology and epidemiology in wildlife, domestic ruminants, mosquitoes and humans, including the effects of climate. We propose to better understand how herd immunity in domestic and wild ruminants may be used to predict or prevent RVFV outbreaks. Initiated climatic and mosquito studies, preparing to initiate ruminant studies. Coordinating work between all partners and regularly have meetings with our field coordinator in South Africa. | 2010-present  South Africa |
| * **PREDICT 2**   *USAID* *Principal Investigator: Jonna Mazet DVM, MPVM, PhD;*  As Surveillance Coordinator for EcoHealth Alliance in PREDICT2: Work with country staff and the EHA Modeling team to develop and execute research programs to better understand the mechanisms of zoonotic spillover by conducting longitudinal studies that include collecting biological and behavioral data on humans, livestock and wildlife. The aims of the project are to 1) Improve the understanding of if and how viruses of interest are co-circulating and/or changing in these populations; 2) Document behaviors and practices at these interfaces that may contributing to spillover, amplification, and spread; and 3) Improve capacity in partner countries to continue sustainable infectious disease surveillance. EHA is working in 11 countries: Bangladesh, China, Egypt, India, Indonesia, Jordan, Liberia, Malaysia, Nepal, South Sudan and Thailand. Other duties include: managing the IACUC and relevant amendments with Dr. Jon Epstein; and Country Liaison for Bangladesh, which involves working with the country coordinator on work plans, quarterly reports, data entry and sample collection among other duties. | New York, NY  (Work in 7 countries)  September 2014-present |
| * **Herpes B virus**   *Principal Investigator: Jonathan Epstein*  Worked with the PREDICT team in Malaysia and PERHILITAN (the Malaysian Wildlife Department) to conduct a pilot study investigating the prevalence of B-virus shedding in long tailed macaques (*Macaca* fascicularis). Worked with coauthors to prepare a manuscript for publication in Emerging Infectious Diseases. This preliminary work was used to apply for an NIH R21 investigating the shedding rate in free-ranging rhesus macaques (*Macaca mulatta)* and the incidence of B virus in human encephalitis cases in Bangladesh. | 2011-present  Madaripur, Bangladesh |
| * **PREDICT**   *USAID* *Principal Investigator: Jonna Mazet DVM, MPVM, PhD; Technical Director: William Karesh, DVM* As Latin American Regional Coordinator for EcoHealth Alliance in PREDICT: Coordinated and completed all research conducted in Mexico, Brazil and Bolivia by working closely with in-country teams; Coordinate the information management for EHA in the GAINS system and training reporting; Managed the training data for EcoHealth’s PREDICT activities; Developed training materials and guides with the PREDICT Capacity Team; Trained teams in eight countries in Latin America and South and Southeast Asia; Manage IACUC and relevant amendments with Dr. Jon Epstein; and Country Liaison for Bangladesh, which involves working with the country coordinator on work plans, quarterly reports, GAINS data entry, sample collection and shipment among other duties. | New York, NY  (Worked in 10 countries)  2010-2014 |
| * **Hotspots for Leptospirosis: Historic, current and future spatiotemporal dynamics of leptospirosis in the US**   *Zoetis* *Principal Investigator: Peter Daszak PhD* As a Research Scientist: Collaborate with colleagues to achieve the following aims:1) Identify the hotspots of leptospirosis in the continental USA, to focus research, surveillance and vaccine programs in those areas and provide information to veterinarians in those areas that describes the risk of leptospirosis for their patients; 2) Determine the environmental or socio-economic factors that may identify the canine leptospirosis hotspots; 3) Develop a time series analysis to analyze past occurrence of leptospirosis and forecast future cases in the U.S. based on the environmental or socio-economic factors identified as proposed  in 2). | 2014  New York, NY |
| * **Development of a Great Ape Health Unit in Sabah, Borneo**   *USFW* *Principal Investigator: Jonathan Epstein DVM, MPH* In collaboration with the Sabah Wildlife Department we are assembling a mobile Wildlife Health Unit; developing a great ape monitoring and surveillance plan; developing a Stoplight Assessment for releasing or translocating gibbons; screening samples collected from wild and rescued great apes for viral and other pathogens. | 2012-2014  Sabah, Malaysia |
| * **Beaver Research**   *National Park Service*  *Supervisors: Tiffany Wolf, DVM, DACZM, Steve Windels, terrestrial ecologist*  Monitored anesthesia during intra-peritoneal transmitter placement in beavers. | Voyageurs National Park, MN  October, 2007 |
| * **Master’s Thesis Research**   *US Centers for Disease Control and Prevention and University of Minnesota School of Public Health*  *Supervisors: Marguerite Pappaioanou DVM, PhD, M.K. Njenga, BVM, PhD,*  Set up a human hospital surveillance system for Rift Valley fever virus. Analyze risk factors associated with being seropositive for antibodies against Rift Valley fever virus before and during an outbreak. | Nairobi, Kenya  Summer 2006 |
| * **Avian Influenza Surveillance**   *Kenya Wildlife Service*  *Supervisor: F.Gakuya, BVM*  Used mist nets to trap birds, took morphometric measurements as well as blood, tracheal and cloacal samples from birds for H5N1 influenza testing. | Mwea, Kenya  July, 2006 |
| * **Carnivore Disease Project**   *University of Glascow and University of Minnesota*  *Supervisors: Sarah Cleaveland, BVM, PhD, Craig Packer, PhD*  Vaccinated 19,498 dogs for rabies, canine distemper virus and canine parvovirus. Worked in Serengeti National Park trapping and radio-collaring jackals as well as radio-tracking lions, hyenas and jackals. Conducted night wildlife transects. | Serengeti, Tanzania  Summer 2005 |
| * **Chronic Wasting Disease Surveillance**   *Minnesota Department of Natural Resources*  *Supervisor: Lou Cornicelli, DNR Big Game Program Coordinator*  Collected cervical and retropharyngeal lymph nodes from deer that hunters brought to register at the station. | Henderson, Minnesota  November, 2004 |
| * **Senior Thesis Research**   *Princeton University and Mpala Research Center*  *Supervisor: Dan Rubenstein, PhD*  Conducted field research to determine how the livestock grazing affects the behavior of zebras. Field experience included radio-tracking collared zebras, and conducting behavioral research. | Mpala Kenya  Summer 2002 |
| * **Ocelot Research**   *Princeton University, Smithsonian Tropical Research Institute and New York State Museum*  *Supervisor: Roland Kays PhD, Martin Wilkelski PhD*  Monitored trap lines, monitored ocelots during anesthesia, radio-tracked ocelots. | BCI, Panama  3/2002 |

**PUBLICATIONS:**

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| --- | --- |
| Aguirre E, Navarrete-Macias I, Liang E, Aguirre L, Galarza I, Moya I, Zambrana-Torrelio C, Rostal MK, Anthony SJ, Iniguez, V. (In Prep) Coronaviruses, Hantaviruses and Paramyxoviruses in Bats from Bolivia **Journal of Wildlife Diseases** | 2016\* |
| Murray K, Zambrana C, Loh, EL, Rostal MK, ????? Kreuder-Johnson C, Mazet J, Daszak P (In Prep) A framework for understanding the risk of viral spillover from wildlife to humans due to land-use change **Nature** | 2016\* |
| Romero-Solorio M, Campos AC, Rostal M, Durigon E (In Prep) First reported case of a hantavirus found in *Saguinus bicolor* in Brazil. **Journal of Wildlife Diseases** | 2016\* |
| Daszak P, Rostal MK, Ball S, Greenwood A, Lepoz J, Jeggo D, Robert N, Allchurch A, Chhun N, Thomasson A. (In Prep) Atoxoplasmosis or *Isospora sp*. (Apicomplexa: eimeriidae) within the UK Captive Breeding Program for the Bali mynah (*Leucopsar rothschildi*) **Veterinary Parasitology**. | 2016\* |
| Hosseini P, Rostal MK, Anyamba A, Paweska J, Karesh WB (In Prep) Modeling RVFV dynamics in response to host immunity in a ruminant community  **PLoS Pathogens** | 2015\* |
| Tao Y, Hosseini P, Rostal MK, Kemp A, Hastings A (In Prep) The effects of animal movement on RVFV dynamics **PLoS Pathogens** | 2015\* |
| White A, Zambrana-Torrelio C, Allan C, Rostal MK, Daszak P, Karesh WB. (In Prep) Hotspots of Canine Leptospirosis in the United States **JAVMA** | 2015\* |
| Sotomayor-Bonilla J, Chaves A, Álvarez-Mendizábal P, Rico-Chávez O, Ibáñez-Bernal S, Rostal MK, Ojeda-Flores R, Barbachano-Guerrero A, Gutiérrez-Espeleta G, Aguirre AA, Daszak P, Suzán G (Resubmitted) Sympatric vectors and mammalian hosts of arboviruses in Southern Mexico **Vector-Borne and Zoonotic Diseases** | 2015\* |
| Anthony, SJ; Islam, A; Johnson, C; Navarrete-Macias, I; Liang, E; Jain, K; Hitchens, PL; Che, X; Soloyvov, A; Hicks, AL; Ojeda-Flores, R; Ulrich, W; **Rostal, MK**, Epstein, JH; Petrosov, A; Garcia, J; Haider, N; Wolfe, N; Goldstein, T; Morse, SS; Rahman, M; Mazet, J; Daszak, P; Lipkin, W.I. (In Review) Predictable patterns in viral diversity **Nature Communications** | 2015\* |
| Liang E, Aguirre E, Rostal MK, Aguirre L, Zambrana C, Iniguez I, Anthony S. (In Review) Short Communication: A new assay for influenza virus in bats. **Journal of Virology.** | 2015\* |
| Lee M, Rostal MK, Hughes T, Griffiths A, Harden M, Rovie-Ryan J, Sitam F, Basir M, Epstein J, Daszak P. (2015) Macacine Herpesvirus 1 (B virus) in wild-caught long-tailed macaques (*Macaca fascicularis*) following capture and transport in Malaysia **Emerging Infectious Diseases**. 21(7) —July 2015 Epub ahead of print. DOI:10.3201/eid2107.140162. | 2015 |
| Olival KJ, Dittmar K, Bai Y, Rostal MK, Lei BR, Daszak P, Kosoy M. (2015) *Bartonella spp*. in a Puerto Rican bat community **Journal of Wildlife Diseases** 51(1):274-278. | 2015 |
| Sotomayor-Bonilla J, Chaves A, Rico-Chávez O, Rostal MK, Ojeda-Flores R, Salas-Rojas M, Aguilar-Setien A, Ibáñez-Bernal S, Barbachano-Guerrero A, Gutiérrez-Espeleta G, Aguilar-Faisal JL, Aguirre AA, Daszak P, Suzán G. (2014) Dengue virus in bats from southeastern Mexico **The American Journal of Tropical Medicine and Hygiene** 91(1):129-131. | 2014 |
| Anthony SJ, Ojeda-Flores R, Rico O, Navarrete-Macias I, Zambrana-Torrelio C, Rostal MK, Epstein J, Tipps T, Liang E, Sanchez-Leon M, Sotomayor J, Aguirre AAA, Ávila R, Medellín RM, Goldstein T, Suzán G, Daszak P, Lipkin WI. (2013) Coronaviruses in bats from Mexico. **Journal of General Virology** 94(Pt 5):1028-1038. | 2013 |
| Quan P, Firth C, Conte J, Williams S, Zambrana-Torrelio C, Anthony SJ, Ellison JA, Gilbert AT, Kuzmin IV, Niezgoda M, Osinubi MOV, Recuenco S, Markotter W, Breiman R, Kalemba L, Malekani J, Lindblade KA, Rostal MK, Ojeda-Flores R, Suzan G, Davis LB, Blau DM, Ogunkoya AB, Alvarez Castillo DA, Moran D, Ngam S, Akaibe D, Agwanda B, Briese T, Epstein JH, Daszak P. Rupprecht CE, Holmes CE, Lipkin WI. (2013) Bats are a major natural reservoir for hepaciviruses and pegiviruses. **Proceedings of the National Academy of Sciences** 110(20):8194-8199. | 2013 |
| Rostal MK. (2013) Herpes B. In J. E. Napier, K. C. Gamble (eds): **Infectious Diseases of Concern to Captive and Free Ranging Animals in North America**, 2nd ed. Infectious Disease Committee, American Association of Zoo Veterinarians, Yulee, Florida. 374. | 2013 |
| Rostal MK, Olival K, Loh E, Karesh WB. (2013) Wildlife: The need to better understand the risks and linkages. **Current Topics in Microbiology and Immunology** 365:101–125. DOI: 10.1007/82\_2012\_271. PMID: 23117192 | 2013 |
| Loh EH, Murray KA, Zambrana-Torrelio C, Hosseini PR, Rostal MK, Karesh WB, Daszak P. (2013) Ecological approaches to studying zoonotic diseases. **Microbiology Spectrum**. 1(3):OH-2009-2012. | 2013 |
| Smith K, Loh E, Rostal MK, Zambrana C, Daszak P. (2013) Pathogens, pests and economics: Drivers of honey bee colony declines and losses. **EcoHealth**. 10(4):434–445. DOI: 10.1007/s10393-013-0870-2. | 2013 |
| Uhart M, Pérez AA, Rostal M, Alandia-Robles E, Mendoza AP, Nava A, Dejuste de Paula C, Miranda F, Iñiguez I, Zambrana C, Durigon E, Franco P, Joly D, Goldstein T, Karesh W, Mazet J. (2013) A ‘One Health’ Approach to Predict Emerging Zoonoses in the Amazon. In **Wildlife and Human Health: Experiences and Perspectives.** Chame M, Labarthe N (eds) FIOCRUZ Rio de Janeiro, Brazil pp 65-73. | 2013 |
| Rostal M, Evans A, Solberg E, Arnemo J. (2012) Hematology and serum chemistry reference ranges of free-ranging moose (*Alces alces*) in Norway. **Journal of Wildlife Diseases** 48(3):548-559. | 2012 |
| Aguirre A, Rostal M, Zimmerman B, Keefe T. (2012) Epidemiologic investigations of infectious pathogens in marine mammals: The importance of serum banks and statistical analysis. **New Directions in Conservation Medicine: Applied Cases of Ecological Health.** Aguirre A, Ostefeld R and Daszak P (eds) Oxford University Press New York, NY pp 563-575. | 2012 |
| Rostal MK, Lee M, Hughes T, Griffiths A, Harden M, Rovie-Ryan J, Sitam F, Basir M, Fair J, Epstein J, Daszak P. (2011) B-virus shedding rates determined by PCR in culled free-ranging long-tailed macaques (*Macaca fascicularis*) in Malaysia. **Proceedings of the 60th Annual International Conference of the Wildlife Disease Association**. pp 40 | 2011 |
| Epstein J, Zambriski J, Rostal M, Heard D, Daszak P. (2011) Comparison of Intravenous Medetomidine and Medetomidine/Ketamine for Immobilization of Free-Ranging Variable Flying Foxes (*Pteropus hypomelanus*). **PLoS ONE** 6(10): e25361. | 2011 |
| Rostal MK, Evans A, Akoolo L, Wakhule L, Macharia J, Breiman R, and Njenga K. (2010) Rift Valley fever virus activity during inter-epidemic periods: Identification of potential vectors and detection of antibodies in livestock. **American Journal of Veterinary Research** 71(5):522-526. | 2010 |
| Evans A, Gakuya F, Paweska JT, Rostal MK, Akoolo L, Van Vuren P, Manyibe T, Macharia J, Ksiazek T, Feikin D, Breiman R, Njenga K. (2008) Prevalence of Antibodies against Rift Valley fever virus in Kenya wildlife during an inter-epidemic period. **Epidemiology & Infection** 136(9):1261-9. | 2008 |
| Rostal MK, A. Evans, M.K. Njenga.  Rift Valley fever virus in East Africa.  **Proceedings of the Minnesota Veterinary Medical Association.** | 2007 |
| \* denotes *In Prep* |  |

**CONFERENCE PRESENTATIONS:**

|  |  |
| --- | --- |
| **ASM Biodefense and Emerging Diseases Research Meeting**  *Approaches to understanding the ecology of herpes B virus in nature*  Oral Presentation: **M. K. Rostal**\*, A. Griffiths, M. Lee, T. Hughes, S. J. Anthony, A. Islam, M. Harden, L. Avena, P. Daszak, J. H. Epstein | Washington D. C.  2014 |
| **American Society of Tropical Medicine and Hygiene 62nd Annual Meeting**  *The Contribution of Herd Immunity to the Epidemic Cycles of Rift Valley Fever Virus in South Africa*  Poster Presentation: **M. K. Rostal\***, W. Karesh, E. Gardner, A. Anyamba and P. Hosseini | Washington D. C.  2013 |
| **1° Meeting of the WDA Latin America Section**  *Arbovirus in small mammals and the presence of vectors from southeastern Mexico*  Poster Presentation: J. Sotomayor-Bonilla\*, A. Abella, P. Álvarez-Mendizábal, A. Chaves, Ó. Rico-Chávez, S. Ibáñez-Bernal, **M. K. Rostal**, S. J. Anthony, G. Gutiérrez-Espeleta, R. A. Medellín, P. Daszak and G. Suzán | São Paulo, Brazil  2013 |
| **International Congress on Pathogens at the Human Animal Interface**  *PREDICTing viral diversity along landscape disturbance in Mexico and Brazil*  Oral Presentation: **M. K. Rostal\***, C. Zambrana, K. Murray, S. Anthony, G. Suzan, R. Medellín, E. H. Loh, O. Rico, R. Ojeda, M. Romero and P. Daszak | Porto de Galinhas  2013 |
| **International Congress on Pathogens at the Human Animal Interface**  *Coronaviruses and hantaviruses detected in bats from tropical and sub-tropical regions in Brazil during the PREDICT Project - 2008 to 2012.*  Poster Presentation: A. C. Campos\*, S. Anthony, J. Araújo, T. Ometto, R. Hurtado, M. S. Nardi, M. R. Solorio, A. Nava, **M. K. Rostal**, E. Loh, C. M. Zambrana-Torrelio, P. Daszak and E. L. Durigon | Porto de Galinhas  2013 |
| **International Congress on Pathogens at the Human Animal Interface**  *Building an early warning system for emerging infectious zoonoses of wildlife origin in the Amazon***.**  Poster Presentation: M. Uhart\*, E. Alandia, L. Aguirre, N. Cavero Young, C. Dejuste, M. De la Puente, E. Durigon, P. Franco, E. Loh, P. Mendoza, F. Miranda, Y. Murillo, K. Murray, F. Nassar, A. Nava, A. Perez, V. Periera, M. Romero, **M. K. Rostal**, F. Suarez, C. Zambrana and C. Zariquiey | Porto de Galinhas  2013 |
| **International Congress on Pathogens at the Human Animal Interface**  *Deep Forest Brazil*Poster Presentation: M. R. Solorio\*, E. Durigon, A. Campos, **M. K. Rostal**, K. A. Murray, C. M. Zambrana-Torrelio, S. Anthony, A. Nava, E. Loh and P. Daszak | Porto de Galinhas  2013 |
| **International Wildlife Disease Association Conference**  *USAID predict wildlife surveillance in Mexico*  Oral Presentation: **M. K. Rostal\*,** R. Medellín*,* G. Suzán, O. Rico, R. Ojeda, A. A. Aguirre, J. E. Epstein, P. Daszak and S. J. Anthony | Knoxville, TN  2013 |
| **Society for Conservation Biology’s 26th International Congress for Conservation Biology**  *USAID PREDICT wildlife surveillance in Mexico and Brazil*  Oral Presentation: **M. K. Rostal\*,** R. Medellín*,* G. Suzán, M. Romero-Solorio, S. J. Anthony, A. A. Aguirre, J. E. Epstein, P. Daszak and J. Mazet | Baltimore, MD  2013 |
| **International Wildlife Disease Association Conference**  *Drivers of Honey Bee Colony Declines and Losses*  Oral Presentation: **M. K. Rostal**\*, K. Smith, E. H. Loh, and P. Daszak | Lyon, France  2012 |
| **International Wildlife Disease Association Conference**  *Dengue virus in bats from different landscapes in southeastern Mexico*  Poster Presentation: J. J. Sotomayor-Bonilla\*, A. Aguilar-Setien, R. Medellín, O. Rico, P. Daszak, **M. K. Rostal**, S. Anthony, M. Salas, A. Chaves, G. Gutiérrez-Espeleta, S. Ibáñez, G. Suzán | Lyon, France  2012 |
| **2o Congreso Internacional en Ecología de Enfermedades y Medicina de la Conservación Kalaankab**  *PREDICTing the emergence of zoonotic diseases in Mexico*  Oral Presentation: **M. Rostal**\* | Querétaro, Mexico  2011 |
| **Congrés Armand-Frappier**  *Ecosystems and Health – Searching for Emerging Viruses*  Oral Presentation: **M. Rostal**\* and W. Karesh; Keynote speaker | Estérel, Canada  2011 |
| **International Wildlife Disease Association Conference**  *The Role Of Livestock Immunity In Periodic Resurgence Of Rift Valley Fever*  Poster Presentation: P. R. Hosseini\*, P. B. H. Formenty, **M. Rostal**, and P. Daszak | Iguazu, Argentina  2010 |
| **International Wildlife Disease Association Conference**  *Rift Valley Fever Virus Surveillance in Kenyan Wildlife*  Oral Presentation: **M. Rostal\*,** A. Evans, F. Gakuya,  J. Paweska, R. Breiman, and M.K. Njenga | Edmonton, Canada  2008 |
| **International Meeting on Emerging Diseases and Surveillance**  *Rift Valley Fever Virus Seroprevalence in Sheep Born Before and After the 1997-98 Epizootic in the Nakuru District of Kenya.*  *Poster Presentation:* **M. Rostal\***, A. Evans, L. Akoolo, L. Wakhule, J. Macharia, R. Breiman, and M.K. Njenga | Vienna, Austria  2007 |
| **International Meeting on Emerging Diseases and Surveillance**  *Rift Valley Fever Virus Surveillance in Kenyan Wildlife*  *Poster Presentation:* A. Evans\*, **M. Rostal,**  F. Gakuya,  J. Paweska, R. Breiman, and M.K. Njenga | Vienna, Austria  2007 |
| **Minnesota Veterinary Medical Association Annual Meeting**  *Rift Valley fever virus in East Africa*  *Oral Presentation:* **M. Rostal\***, A. Evans, M.K. Njenga. | Minneapolis, MN  2007 |
| **Northeastern Ecology and Evolution Conference**  *A Study of the Effect Cattle Grazing Has on the Plains Zebra (Equus burchelli)*  *Poster Presentation:* **M. Rostal\***, T. Young, I. Fischhoff and D. Rubenstein | Rutgers, NJ  2003 |
| **Senior Symposium**  *A Comparison of the Feeding Behaviors of Equids and Cattle: A Study of Grassland Competition Between Cattle and Zebras and Donkeys*  *Oral Presentation:* **M. Rostal\*** | Princeton, NJ  2003 |

\*Indicates presenter

**RESEARCH GRANTS AND SCHOLARSHIPS:**

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| **Tolerant Hosts Using Novel Drug-Enhanced Resilience (THUNDER)**  DARPA, PI Katze (Co-PI Karesh)  Senior Personnel | Submitted to UW  $649,788.81 |
| **Dimensions: Taxonomic, genetic and functional limits of mammalian virodiversity**  NSF, PI Dazak  Senior Personnel | Submitted  $250,000 |
| **PREDICT 2**, USAID Emerging Pandemic Threats, PI, Mozet, J.  EHA Surveillance Coordinator | 10/1/15-9/30/19  $100,000 |
| **Understanding Rift Valley Fever in South Africa,** DTRA Thrust Area 6, PI, Karesh,  Co-Investigator | 5/28/14-5/31/16  $1,971,483 |
| **Ecosystems Approach for Monitoring Biodiversity and Conservation** USFW Wildlife without borders, PI Rostal, M | 4/28/14-6/30/15  $29,988 |
| **Hotspots for Leptospirosis: Historic, current and future spatio-temporal dynamics of leptospirosis in the US**, Zoetis, PI Daszak  Research Scientist | 6/26/14-12/31/14  $200,000 |
| **Deep Forest, The Samuel Freeman Charitable Trust,** PI Melinda Rostal | 5/22/13-5/21/14  $25,000 |
| **Development of a Great Ape Health Unit in Sabah, Malaysia**, USFWS, F12AP01117 PI, Epstein, J.  Senior Personnel | 09/13/12-12/31/14  $39,487 |
| **PREDICT - Wildlife SMART Surveillance**, USAID Emerging Pandemic Threats, GHN-A-00-09-00010-00 PI, Mozet, J.  Latin American Regional Coordinator | 10/1/09-09/30/14  $3,232,500 |
| **SCAVMA Travel Grant, University of Minnesota**  Funding for an externship at Brookfield Zoo | 2008 |
| **Pfizer Animal Health Award, University of Minnesota**  Funding to support veterinary education | 2007 |
| **International Externship Travel Grant, University of Minnesota**  Funding for externship in Mongolia with Christian Veterinary Missions | 2007 |
| **SCAVMA Travel Grant, University of Minnesota**  Funding to present poster at the International Meeting on Emerging Diseases and Surveillance and to attend the American Association of Zoo Veterinarians Annual Conference and to go to externships at The Marine Mammal Center and the National Zoo. | 2007 |
| **The Graduate and Professional Student Assembly Travel Grant, University of Minnesota**  Funding to present poster at the International Meeting on Emerging Diseases and Surveillance | 2007 |
| **Harold Wetterberg Foundation Scholarship, University of Minnesota**  Funding to support veterinary education | 2006, 2007 |
| **Caleb Dorr Scholarship, University of Minnesota**  Funding to support veterinary education | 2006 |
| **Augustus Searles Scholarship for Women, University of Minnesota**  Funding to support veterinary education | 2006, 2007, 2008 |
| **Veterinary College Travel Grant, University of Minnesota**  Funding to support Rift Valley fever virus research in Kenya | 2006 |
| **Dr. J Arthur Meyers Endowment for International Experience in Public Health, University of Minnesota**  Funding to support Master of Public Health thesis research | 2006 |
| **JUDD Fellowship in the School of Public Health, University of Minnesota**  Funding to support Master of Public Health thesis research | 2006 |
| **Merck Merial Summer Scholars Program, University of Minnesota**  Funding to support Rift Valley fever virus research in Kenya | 2006 |
| **SCAVMA Travel Grant, University of Minnesota**  **Funding to support travel to the American Association of Zoo Veterinarians** Annual Conference and the Veterinary Student Exotic Animal Symposium | 2006 |
| **Veterinary College Travel Grant, University of Minnesota**  Funding to support work in Tanzania vaccinating dogs | 2005 |
| **SCAVMA Travel Grant, University of Minnesota**  Funding to support travel to the American Association of Zoo Veterinarian Annual Conference | 2005 |
| **SCAVMA Travel Grant, University of Minnesota**  Funding to support travel to “Show Me Exotics” Veterinary Student Symposium | 2005 |
| **Dean of the College Round Table Thesis Research Fund, Princeton University**  Funding to support senior thesis research in Mpala, Kenya | 2002 |
| **H. Hamilton Hackney ’53 Senior Thesis Research Fund, Princeton University**  Funding to support senior thesis research in Mpala, Kenya | 2002 |

**MEMBERSHIP IN PROFESSIONAL SOCIETIES:**

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| **American Society of Tropical Medicine and Hygiene** | 2013 |
| **Wildlife Disease Association** | 2008-2015 |
| **American Association of Wildlife Veterinarians** | 2005-2015 |
| **American Veterinary Medical Association** | 2008-2015 |
| **American Association of Small Ruminant Practitioners** | 2008-2010 |
| **Washington Veterinary Medical Association** | 2008-2010 |
| **Student Chapter of the American Veterinary Medicine Association** | 2004-2008 |

**PROFESSIONAL CONFERENCES ATTENDED:**

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| **American Society of Tropical Medicine and Hygiene 62nd Annual Meeting** | Washington D. C.  2013 |
| **Second International Congress on Pathogens at the Human Animal Interface** | Porto de Galinhas  2013 |
| **International Wildlife Disease Association Conference** | Knoxville, TN; Leon, France; Quebec City, Canada; Iguazu, Argentina; Blaine, WA & Edmonton, Canada  2013, 2012, 2011, 2010, 2009, 2008 |
| **American Association of Wildlife Veterinarians Annual Conference** | Omaha, NE & Edmonton Canada  2005, 2008 |
| **International Meeting on Emerging Diseases and Surveillance** | Vienna, Austria  2007 |
| **Minnesota Veterinary Medicine Association Annual Meeting** | St. Paul & Minneapolis, MN  2005, 2007 |
| **American Association of Zoo Veterinarians Annual Conference** | Omaha, NE & Tampa, FL  2005, 2006 |
| **EcoHealth One Conference** | Madison, WI  2006 |

**HONORS AND AWARDS:**

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| **Caleb Dorr Certificate** – University of Minnesota | 2007, 2008 |
| **Phi Zeta** – Honor Society of Veterinary Medicine – University of Minnesota | 2007 |
| **National Honors Society** – University of Minnesota | 2006 |
| **Honor Society of Phi Kappa Phi** – University of Minnesota | 2005 |
| **Art Lane ’34 Award** – Princeton University | 2003 |
| **Jack Smith Award** – Princeton University | 2003 |
| **Wanda P. Sieja Coach’s Award** – Princeton University | 2003 |
| **All-Ivy Academic team** – Princeton University | 2003 |
| **9th at NCAA Championships for Women’s Foil** – Princeton University | 2000, 2003 |
| **All-American NCAA Women’s Fencing** – Princeton University | 2000-01, 2003 |
| **All-Ivy Women’s Fencing** – Princeton University | 2000-01, 2003 |
| **3rd at NCAA Championships for Women’s Foil** – Princeton University | 2001 |
| **Ranked 10th in the United Sates Fencing Association Open Women’s Foil** | 2001 |

**OTHER WORK EXPERIENCE:**

*Public Education Experience, as education intern:*

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| * **HawkWatch International**   Full-time | Salt Lake City, UT  September 2003- February 2004 |
| * **ProPeru**   Part-time | Urubamba, Peru  March – April 2004 |
| * **Alaska SeaLife Center**   Part-time | Seward, AK  Summer, 2002 |

Gave informational talks and taught scientific theories to children and adults on raptors and the environment, habitat destruction and marine ecology. In Peru, the educational talks were given in Spanish.

**LEADERSHIP ACTIVITIES:**

|  |  |
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| * **Student Leadership:** * Vice president of Conservation Medicine Collective * President of Zoo, Exotic, Avian Wildlife Medicine Club * **Fencing:** * Captain of Princeton’s women’s fencing team * Women’s Foil Squad Leader – Princeton University | 2005-2007  2005-2006  2002-2003  2001-2002 |

**TECHNICAL SKILLS:**

**Computer***:* Proficient with Microsoft Word, Excel, Power Point.

Familiar with R and EpiInfo 3.3.2 statistical tools.

**FOREIGN LANGUAGES SPOKEN:**

**Spanish –** Advanced intermediate

**Portuguese** – Beginning

**Swahili –** Beginning