

**KAREN E. DEMATTEO**

WildCare Institute Saint Louis Zoo One Government Drive St. Louis MO 63110	Environmental Studies & Department of Biology Washington University in St. Louis One Brookings Drive – Box 1137 St. Louis MO 63130	Department of Biology University of Missouri – St. Louis One University Boulevard St. Louis MO 63121-4499
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## EDUCATION

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Ph.D. Ecology, Evolution, and Systematics, 2004, Saint Louis University, St. Louis MO  
M.S. Zoology and Physiology, 1995, University of Wyoming, Laramie WY  
B.S. Ecology and Evolutionary Biology, 1991, University of Connecticut, Storrs CT

## CURRENT PROFESSIONAL APPOINTMENTS

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September 2008 – Lecturer (GIS): Environmental Studies Program – WashU  
January 2011 – Adjunct Research Associate: WildCare Institute - Saint Louis Zoo  
March 2012 – Faculty: Universidad Nacional de Misiones (UNaM) – Facultad de Ciencias Exactas, Químicas y Naturales (Posadas, Misiones, Argentina)  
January 2013 – Adjunct Assistant Professor: Department of Biology – UM-St. Louis  
January 2013 – Projects Officer – IUCN Canid Specialist Group  
April 2014 – Research Scientist: Department of Biology – WashU

## CERTIFICATION AND TRAINING

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- Conservation Easement Drafting and Baseline Documentation. MO Land Trust Coalition and Land Trust Alliance. January 2010.
- Introduction to Distance Sampling Workshop. January 2006. UM-St. Louis.
- Teaching Excellence Certificate in University Teaching Skills. May 2004. Saint Louis University (SLU).
- Internship in Conservation Biology – GIS Modeling (Dr. Bette Loiselle). Fall 2003. UM-St. Louis.
- Workshop: Introduction to Global Positioning Systems for Mapping and Navigation. Summer 2003. Saint Louis Zoo.
- Workshop on Genetic Techniques – DNA Fingerprinting. Spring 2001. UM-St. Louis.

## HONORS

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Argentinean Association of Zoonosis Award: Fauna Silvestre y parasitaria de la selva misionera: un binomial zoonótico por resolver. Misiones, Argentina (Wildlife and parasites in the forest of Misiones: A zoonotic binomial to be resolved. Misiones, Argentina). Authors: Vizcaychipi, KA, L Irazú, M Rinas, CArgüelles, CG Prous, G Santillán, and K DeMatteo. June 2014.

Argentinean Association of Veterinary Parasitology Award: Equinococcosis Neotropical: presencia del ciclo Silvestre de Echinococcus vogeli en la provincia de Misiones, Argentina (Neotropical Echinococcosis: Presence in the wild of the Echinococcus vogeli cycle in the province of Misiones, Argentina). Author: KA Vizcaychipi. Consultant: KE DeMatteo. September 2012.

Fulbright Specialist Grantee (Council for International Exchange of Scholars/CIES). 2009.  
Course: Biología de la conservación y predicción de distribución de especies (Conservation biology and prediction of species distribution)  
Location: UNaM – Facultad de Ciencias Exactas, Químicas, y Naturales – Posadas, Misiones, Argentina

**FELLOWSHIPS AND GRANTS**

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2016	Phoenix Zoo Conservation & Science Program (\$3,000)
2015	Eppley Foundation for Research (\$23,430)
2014	Conservation, Food, & Health Foundation (\$25,755)
	Chester Zoo Conservation Fund (\$4,000)
	Riverbanks Conservation Support Fund (\$3,715)
2013	Conservation, Food, & Health Foundation (\$25,900)
	National Geographic Society Conservation Trust Fund (\$24,600)
	Chester Zoo Conservation Fund (\$4,677)
	Phoenix Zoo Conservation & Science Program (\$2,920)
	Fresno Chaffee Zoo Wildlife Conservation Fund (\$2,250)
	Kickstarter (\$11,765)
	Riverbanks Conservation Support Fund (\$4,900)
	Paris Zoo (\$1,400)
2011	Jaguar Conservation Fund (Woodland Park Zoo) (\$4,350)
	Chester Zoo Conservation Fund (\$3,925)
	National Geographic Society Conservation Trust Fund (\$23,660)
	Conservation, Food, & Health Foundation (\$23,990)
	Palm Beach Zoo Conservation Fund (\$11,093)
	Paris Zoo (\$1,000)
2010	Palm Beach Zoo Conservation Fund (\$15,500)
2009	Conservation, Food, & Health Foundation (\$25,080)
	Palm Beach Zoo Conservation Fund (\$30,620)
	Jaguar Conservation Fund (Woodland Park Zoo) (\$2,000)
	Chester Zoo Conservation Fund (\$4,627)
2007	Palm Beach Zoo Conservation Fund (\$18,000)
	Bush Dog Conservation Fund (\$3,000)
	University of Missouri-St. Louis Research Award (\$12,100)
2006	Palm Beach Zoo Conservation Fund (\$6,542)
2005	Riverbanks Conservation Support Fund (\$1,000)
	Palm Beach Zoo Conservation Fund (\$16,850)
	Pittsburgh Zoo & PPG Aquarium Conservation Fund (\$2,185)
	Idea Wild (\$700)
2004	Cleveland Metroparks Zoo Small Grants Program (\$2,550)
2003	Dissertation Fellowship (SLU Graduate School) (\$11,000)
2002	Cracid Taxon Advisory Group (American Zoo and Aquarium Association - AZA) (\$1,200)

**RESEARCH EXPERIENCE**

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**2016:** Phase 4 – The next step for carnivore conservation in Misiones, Argentina

Collaborators: Dr. Miguel Rinas – Ministry of Ecology, Misiones Argentina  
Dr. Carina Argüelles – UNaM - Posadas, Argentina  
Dr. Mario Di Bitetti – National Research Council of Argentina (CONICET) - Misiones  
María Paula Bertolini, Departamento de Conservación e Investigación – Fundación Temaikèn

**2009/2011/2013:** Phases 1 thru 3 - Identifying habitat corridors that minimize human-wildlife conflict and maximize mobility for landscape species in interior Atlantic forest (Carnivore conservation in Misiones, Argentina)

Collaborators: Dr. Miguel Rinas – Ministry of Ecology, Misiones Argentina  
Dr. Carina Argüelles – UNaM - Posadas, Argentina  
Dr. Mario Di Bitetti – National Research Council of Argentina (CONICET) - Misiones  
Dr. Lori Eggert – University of Missouri – Columbia (UM-Columbia)  
Dr. Patricia Parker – UM-St. Louis (2009)

**2010:** International school project on conservation in Argentina: “What’s in my backyard”

Collaborators: Dr. Miguel Rinas – Ministry of Ecology, Misiones Argentina  
Dr. Carina Argüelles – UNaM - Posadas, Argentina  
Mario Jaramillo – Fundación Vida Silvestre Argentina  
Julian Baigorria – Conservación Argentina  
Keith Lovett / Stephanie Dampier – Palm Beach Zoo

**2007:** Determining the basic ecological requirements of the bush dog (*Speothos venaticus*) with noninvasive techniques: a critical conservation step for the species.

Collaborators: Dr. Miguel Rinas – Ministry of Ecology, Misiones Argentina  
Dr. Carina Argüelles – UNaM - Posadas, Argentina

**2006-2007:** Developing microsatellite primers for the bush dog (*Speothos venaticus*): an essential first step in the use of noninvasive research techniques with the species.

Collaborators: Dr. Patricia Parker – UM-St. Louis  
Dr. Lori Eggert – UM-Columbia

**2004-2005:** Obtaining critical baseline ecological information on the bush dog (*Speothos venaticus*) (Carnivora: Canidae)

Collaborators: Dr. Julio Dalponte – UNEMAT, Nova Xavantina, Mato Grosso, Brazil  
Edson de Souza Lima – UNEMAT, Nova Xavantina, Mato Grosso, Brazil

**2004-2008:** Making the critical need for new founders in the captive population of bush dogs (*Speothos venaticus*) a reality.

Collaborators: Dr Rüdiger Dmoch – Frankfurt Zoo, Frankfurt, Germany  
Cleyde Chierogatto – Government of Riacho Grande, São Bernardo do Campo Brazil

**1999-2001:** Developing a method for attracting bush dogs in the wild.

Collaborators: Gerald Zuercher – Kansas State University, Manhattan Kansas  
Alberto Yanosky – Fundación Moisés Bertoni, Asunción Paraguay  
Ingrid Porton – Saint Louis Zoo

**1995-2005:** Semen collection and artificial insemination in the common piping guan (*Pipile cumanensis cumanensis*): potential applications for Cracidae (Aves: Galliformes).

Collaborators: Dr. Cheryl Asa – Saint Louis Zoo  
Michael Macek – Saint Louis Zoo

**1992-1995:** The physiological response of the North American Porcupine (*Erethizon dorsatum bruneri*) to decreasing ambient temperature and increasing wind speed

Collaborators: Dr. Henry Harlow – University of Wyoming (UW)  
Dr. Fred Lindzey – Wyoming Cooperative Fish and Wildlife Research Unit (UW)

## PEER-REVIEWED PUBLICATIONS

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- Vizcaychipi, KA, L Irazú, M Rinas, C Argüelles, CG Prous, G Santillan, and **KE DeMatteo**. 2015. Fauna silvestre y parasitaria de la Selva Misionera un binomio zoonótico por resolver. Misiones, Argentina. *RAZyEIE* 10(2):29-32.
- Holzmann I, I Agostini, **K DeMatteo**, JI Areta, ML Merino, and MS Di Bitetti. 2015. Using species distribution modeling to assess factors that determine the distribution of two parapatric howlers (*Alouatta* spp.) in South America. *International Journal of Primatology* 36:18-32.
- DeMatteo KE**, MA Rinas, CF Argüelles, BE Holman, MS Di Bitetti, B Davenport, PG Parker, and LS Eggert. 2014. Using detection dogs and genetic analyses of scat to expand knowledge and assist felid conservation in Misiones, Argentina. *Integrative Zoology* 9:623-639.
- DeMatteo KE**, MA Rinas, CF Argüelles, JP Zurano, N Selleski, MS Di Bitetti, and LS Eggert. 2014. Noninvasive techniques provide novel insight for the elusive bush dog (*Speothos venaticus*). *Wildlife Society Bulletin* 38(4):862-873
- Koop JAH, **KE DeMatteo**, PG Parker, and NK Whiteman. 2014. Birds are islands for parasites. *Biology Letters* 10, 20140255. <http://dx.doi.org/10.1098/rsbl.2014.0255>.
- Vizcaychipi KA, M Helou, **K DeMatteo**, N Macchiaroli, M Cucher, M Rosenzvit, and A D'Alessandro. 2013. Primera identificación de *Echinococcus vogeli* en una paca en la provincia de Misiones, Argentina. *Revista Argentina de Microbiología* 45(3):169-173.
- Lima ES, **KE DeMatteo**, RSP Jorge, MLSP Jorge, JC Dalponte, HS Lima, and S Klorfine. 2012. First telemetry study of *Speothos venaticus*: providing information on home range, activity, and habitat selection. *Wildlife Research* 39(6): 512-519.
- DeMatteo K**, F. Michalski, and M.R.P. Leite-Pitman. 2011. *Speothos venaticus*. In: IUCN 2011. IUCN Red List of Threatened Species. Version 2011.2. <[www.iucnredlist.org](http://www.iucnredlist.org)>.
- DeMatteo KE**, MA Rinas, MM Sede, B Davenport, C Argüelles, K Lovett, and PG Parker. 2009. Detection dogs: an effective technique for bush dog (*Speothos venaticus*) surveys. *Journal of Wildlife Management* 73(8):1436-1440.
- Rinas MA, R Nesnek, M Kinsella, **KE DeMatteo**. 2009. Fatal aortic aneurysm and rupture in a neotropical bush dog (*Speothos venaticus*) cause by *Spirocerca lupi*. *Veterinary Parasitology* 164:347-349.
- DeMatteo KE**, PG Parker, and LS Eggert. 2009. Characterization of dinucleotide microsatellite loci and confirmation of sexing primers for the bush dog (*Speothos venaticus*). *Molecular Ecology Resources* 9:1219-1220.
- DeMatteo KE**. 2008. Using a survey of carnivore conservationists to gain insight into the ecology and conservation status of the bush dog. *Canid News* 11.3 [Online]: (URL: [http://www.canids.org/canidnews/11/Bush\\_dog\\_data\\_survey.pdf](http://www.canids.org/canidnews/11/Bush_dog_data_survey.pdf))
- DeMatteo KE** and BA Loiselle. 2008. New data on the status and distribution of the bush dog (*Speothos venaticus*): evaluating its quality of protection and directing research efforts. *Biological Conservation* 141:2494-2505.
- DeMatteo KE**, IJ Porton, DG Kleiman, and CS Asa. 2006. The effect of the male bush dog (*Speothos venaticus*) on the female reproductive cycle. *Journal of Mammalogy* 87:723-732.
- DeMatteo KE**, S Silber, IJ Porton, K Lenahan, R Junge, and CS Asa. 2006. Preliminary tests of a new

- reversible male contraceptive in bush dogs (*Speothos venaticus*): open-ended vasectomy and microscopic reversal. *Journal of Zoo and Wildlife Medicine* 37:313-317.
- DeMatteo KE**, KL Karagiannis, CS Asa, MS Macek, P Parker, TL Snyder, and AM Tieber. 2004. Semen collection and artificial insemination in the common piping guan (*Pipile cumanensis cumanensis*) and potential applications for Cracidae (Aves: Galliformes). *Journal of Zoo and Wildlife Medicine* 35(4):447-458.
- DeMatteo KE**, O Carrillo, GL Zuercher, S Ramírez, K Smith, and IJ Porton. 2004. A technique for attracting bush dogs (*Speothos venaticus*) in the wild. *Canid News* 7.6 [Online]:1-12 (URL: [http://www.canids.org/canidnews/7/Attracting\\_bush\\_dogs.pdf](http://www.canids.org/canidnews/7/Attracting_bush_dogs.pdf)).
- DeMatteo KE** and C Kochanny. 2004. Determining an effective and safe radio-tracking collar for bush dogs (*Speothos venaticus*). *Canid News* 7.7 [Online]:1-5. (URL: [http://www.canids.org/canidnews/7/Radiotracking\\_collar\\_for\\_bush\\_dogs.pdf](http://www.canids.org/canidnews/7/Radiotracking_collar_for_bush_dogs.pdf)).
- DeMatteo KE**, IJ Porton, and CS Asa. 2002. Comments from the AZA Contraception Advisory Group on evaluating the suitability of contraceptive methods in golden-headed lion tamarins (*Leontopithecus chrysomelas*). *Animal Welfare* 11(3):343-348.
- Bertschinger HJ, CS Asa, PP Calle, JA Long, K Bauman, **K DeMatteo**, W Jochle, TE Trigg, and A Human. 2001. Control of reproduction and sex related behaviour in exotic wild carnivores with the GnRH analogue deslorelin: preliminary observations. *Journal of Reproduction and Fertility – Supplement* 57:275-283.
- DeMatteo KE** and HJ Harlow. 1997. Thermoregulatory response of the North American porcupine (*Erethizon dorsatum bruneri*) to decreasing ambient temperature and increasing wind speed. *Comparative Biochemistry and Physiology* 116B(3): 339-346.

#### **PUBLISHED BOOK CHAPTERS**

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- DeMatteo KE**. 2005. Chapter 8: Contraception of Carnivores. Pp. 105-118 in *Wildlife Contraception: Issues, Methods, and Applications* (CS Asa and IJ Porton, Eds.). Johns Hopkins University Press, Baltimore, MD, USA.
- DeMatteo KE**. 2005. Chapter 12: Contraception of Other Mammals. Pp. 177-183 in *Wildlife Contraception: Issues, Methods, and Applications* (CS Asa and IJ Porton, Eds.). Johns Hopkins University Press, Baltimore, MD, USA.
- Porton IJ and **KE DeMatteo**. 2005. Chapter 9: Contraception in Non-human Primates. Pp. 119-148 in *Wildlife Contraception: Issues, Methods, and Applications* (CS Asa and IJ Porton, Eds.). Johns Hopkins University Press, Baltimore, MD, USA.
- Bettinger TL and **KE DeMatteo**. 2001. Reproductive Management of Captive Chimpanzees: Contraceptive Decisions. Pp. 119-145 in *Special Topics in Primatology – Volume 2: The Care and Management of Captive Chimpanzees* (L Brent, Ed). American Society of Primatologists.

#### **PRESENTATIONS AND PUBLISHED ABSTRACTS (\* DENOTES INVITED PRESENTATION)**

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- Argüelles CF and **KE DeMatteo**. 2014. Nuevas metodologías por la conservación de fauna y control de Echinococcosis Neotropical. Presented at the 1° Reunion de Echinococcosis Neotropical de Cono Sur y Panamazonia. Buenos Aires, Argentina.
- Schneider RG, CF Argüelles, **KE DeMatteo**. 2014. Sexado de felinos de la selva Paranaense mediante tecnicas indirectas (Sexing the Upper Parana forest felines using indirect techniques). Presented at the XLIII Argentine Congress on Genetics. Bariloche, Argentina.
- Vizcaychipi, K, L Irazú, M Rinas, C Argüelles, CG Prous, G Santillan, **K DeMatteo**. 2014. Fauna Silvestre y parasitaria de la selva misionera: un binomial zoonótico por resolver. Misiones, Argentina (Wildlife and parasites in the forest of Misiones: A zoonotic binomial resolved. Misiones, Argentina). Presented at the III Congreso Panamericano – VIII Congreso Argentino de Zoonosis. La Plata (Buenos Aires), Argentina.
- Vizcaychipi, K, M Rinas, and **K DeMatteo**. 2013. Parásitos neotropicales zoonóticos presentes en la mastofauna de la selva misionera (Presence of Neotropical zoonotic parasites in the mammals of

- Misiones forests.). Pp 28 *in* Libro de Rusúmenes of XXVI Jornadas Argentinas de Mastozoología. . Mar del Plata, Argentina.
- Vizcaychipi, K, A Miyagi, J Barreiro, M Rinas, H Argibay, N Casas, V Costa de Oliveira, **K DeMatteo**. 2013. Helminto Neotropicales como focos potentials de zoonosis en áreas de sobreposición ambiental de humanos y mastofauna silvestre de la selva misionera de la República Argentina (Neotropical helminth as potential zoonotic outbreaks in areas where humans and wildlife of the Misiones forest overlap.) Presented at XXI Congreso Latinoamericano de Parasitología. Guayaquil, Ecuador.
- DeMatteo KE**, MA Rinas, CF Argüelles, Mario S. Di Bitetti, Barbara Davenport, Patricia G. Parker, and Lori S. Eggert. 2013. Using noninvasive techniques to expand carnivore conservation in Misiones, Argentina. St. Louis Ecology, Evolution, & Conservation (SLEEC) Retreat. Saint Louis Zoo, St. Louis MO.
- DeMatteo KE**. 2012. Using noninvasive techniques to study elusive carnivores in Misiones, Argentina. Division of Biological Sciences Ecology, Evolution, and Behavior Seminar Series. University of Missouri, Columbia, MO.
- DeMatteo KE**. 2009. The use of noninvasive techniques to study a species' ecology. Presented at the VII Jornadas Científico Tecnológicas de la Facultad de Ciencias Exactas, Químicas y Naturales de la Universidad Nacional de Misiones. Posadas, Misiones, Argentina.
- DeMatteo KE**. 2009. What's new with the rare and elusive bush dog (*Speothos venaticus*)? Presented at the 10<sup>th</sup> International Mammalogical Conference. Mendoza, Argentina.
- \* **DeMatteo KE**. 2005. Biologia, comportamento, e reprodução de cachorro vinagre (Biology, behavior, and reproduction of the bush dog). Presented (in Portuguese) at Sociedade Paulista de Zoológicos. São Vicente, São Paulo, Brazil.
- DeMatteo KE**. 2005. New data on the status and distribution of *Speothos venaticus*: Evaluating its degree of protection and directing research efforts. Pp 54 *in*: Abstracts of 19<sup>th</sup> Annual Meeting of the Society for Conservation Biology. Universidade de Brasília, Brasília, Distrito Federal, Brazil.
- DeMatteo KE**. 2004. Linking *in-situ* and *ex-situ* conservation efforts: an essential strategy with the bush dog (*Speothos venaticus*). Presented at Carnivores 2004 - Expanding Partnerships in Carnivore Conservation. Santa Fe, New Mexico.
- \* **DeMatteo KE**. 2003. Resultado preliminares do levantamento da distribuição geográfica do cachorro vinagre realizado pelo IUCN (Preliminary results of the IUCN *Speothos* Distribution and Status Survey). Presented at I. Workshop do Plano de Manejo do Cachorro Vinagre (*Speothos venaticus*). Parque Florestal São Marcelo, Mogi Guaçu, São Paulo, Brazil.
- \* **DeMatteo KE**. 2003. Técnicas para observação de *Speothos venaticus* em natureza (Observation techniques for *Speothos venaticus* in the wild). Presented at I. Workshop do Plano de Manejo do Cachorro Vinagre (*Speothos venaticus*). Parque Florestal São Marcelo, Mogi Guaçu, São Paulo, Brazil.
- \* **DeMatteo KE**, KL Karagiannis, CS Asa, MS Macek, TL Snyder, and AM Tieber. 2002. Metodología y aplicaciones para la colección de semen e inseminación artificial en *Pipile cumanensis cumanensis* (Methodology and applications for semen collection and artificial insemination in the common piping guan). Presented (in Spanish) at Análisis de Viabilidad de la Población y el Hábitat del Pavo de Cacho o Pavón (*Oreophasis derbianus*) (Population and Habitat Viability Analysis Workshop - Horned Guan). Panajachel, Sololá, Guatemala.
- Long JA, MJ Willis, N Czekala, K Grzybowski, **K DeMatteo**, EN Diebold, and G Gee. 2001. Developing artificial insemination for captive management of the cinereous vulture. Pp. 186-189 *in*: Proceedings of 1<sup>st</sup> International Symposium on Assisted Reproductive Technology for the Conservation and Genetic Management of Wildlife. Henry Doorly Zoo, Omaha Nebraska.
- DeMatteo, KE**, O Carrillo, GL Zuercher, S Ramirez, K. Smith, and IJ Porton. 2001. Developing a Technique for Attracting Bush Dogs (*Speothos venaticus*) in the Wild. Pp 52 *in*: Proceedings Canid Biology and Conservation Conference, Oxford, England. IUCN Canid Specialist Group, Oxford, England.
- Bertschinger HJ, CS Asa, PP Calle, JA Long, K Bauman, **K DeMatteo**, W Jochle, TE Trigg, and A Human.

2001. Control of reproduction and sex related behaviour in exotic wild carnivores with the GnRH analogue deslorelin: preliminary observations. Presented in the Fourth International Symposium on Canine and Feline Reproduction. Oslo, Norway. 29 June - 1 July 2000.
- Zuercher GL, PS Gipson, **KE DeMatteo**, J Short, MJ Caliendo, W Wite, P Jones, J McInturff, J Tarbox, and B Whitsitt. 1999. Determinación de esencias atractivas para la captura de Jagua Yvyguy (*Speothos venaticus*) y otros mamíferos depredadores Neotropicales. Pp. 65 *in*: Fourth International Conference on Wildlife Management in Amazonia and Latin America, Asuncion, Paraguay.
- DeMatteo KE**, CS Asa, MS Macek, and TL Snyder. 1998. Use of the common piping guan (*Pipile cumanensis cumanensis*) as a model for short- and long-term preservation of cracid semen. Pp. 33-34 *in*: Biology and Conservation of the Piping Guans (Aves: Cracidae). (DM Brooks, F Olmos, and AJ Begazo, eds). Cracid Specialist Group.

### INVITED WORKSHOPS

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- Workshop do Plano de Manejo do Cachorro Vinagre (*Speothos venaticus*). 7-9 November 2003. Parque Florestal São Marcelo, Mogi Guaçu, São Paulo, Brazil.
- I. Workshop on Research and Conservation of Neotropical Carnivores. 13-18 May 2003. Atibaia, São Paulo, Brazil.
- Análisis de la Viabilidad de la Población y el Hábitat del Pavo de Cacho o Pavón (Population and Habitat Viability Analysis (PHVA) of the Horned Guan, *Oreophaps derbianus*). 22-25 October 2002. Panajachel, Sololá, Guatemala. Language: Spanish

### INTERNATIONAL MENTORING

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#### Licenciatura (B.S. - undergraduate) – UNaM – Facultad de Ciencias Exactas, Químicas y Naturales:

- Nicole Selleski. 2013. Determinación de relaciones de parentesco en una población de *Speothos venaticus* mantenida en cautiverio (Determination of parental relations in a population of *Speothos venaticus* maintained in captivity). Co-advisor: Dr. Carina Argüelles.
- Rosio Gabriela Schneider. 2014. Sexado de félidos de la Selva Paranaense mediante técnicas indirectas (Sexing the Paraná forest felids using indirect techniques). Co-advisor: Dr. Carina Argüelles.
- Using noninvasive techniques to determine current prey biodiversity in the newly designated biological corridors of northern-central Misiones. Co-advisor: Dr. Carina Argüelles
  - Priscilha Delgado.
  - Daiana Macarena Ibañez
  - Marcos Rogelio Mercado RomeroFranco Roldán.

### TEACHING APPOINTMENTS

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<b>Lecturer</b>	<u>Course</u> : Applications in Geographic Information Systems (GIS)
Fall 2008-present	<u>Location</u> : Environmental Studies - WashU
	<u>Level</u> : Undergraduate and Graduate (Fall and Spring Semesters)
<b>Adjunct Assistant Professor</b>	<u>Course</u> : Applications of Geographic Information Systems (GIS)
Spring 2011 - 2014	<u>Location</u> : Department of Biology - UM-St. Louis
Spring 2007/2008	<u>Level</u> : Undergraduate and Graduate (5-credits) (Spring Semester)
<b>Visiting Professor</b>	<u>Course</u> : Utilización de modelos de nicho ecológico para predecir distribución de especies (Utilizing ecological niche models to predict species distribution)
September 2007	<u>Location</u> : UNaM - Facultad de Ciencias Exactas, Químicas y Naturales
August 2013	<u>Level</u> : Graduate

- Fulbright Specialist**  
October – November 2009  
Course: Biología de la conservación y predicción de distribución de especies (Conservation biology and prediction of species distribution)  
Location: UNaM - Facultad de Ciencias Exactas, Químicas y Naturales  
Level: Graduate
- Invited Courses**  
August 2005  
Course: Conservação e manejo de animais selvagens (Conservation and management of wild animals).  
Location: Sociedade Paulista de Zoológicos, São Vicente, São Paulo, Brazil.

### **PRIOR PROFESSIONAL APPOINTMENTS AND INTERNSHIPS**

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- 2010/2012/2014/2015 Primary Dog Handler (puma survey in NW Nebraska) for Nebraska Game & Parks
- 2009-2015 Volunteer (monitoring conservation easements): Ozark Regional Land Trust – St. Louis MO
- 2011-2013 Research Associate: Division of Biological Sciences – UM-Columbia
- 2004 – 2011 Post-Doctoral Fellow: Department of Biology – UM-St. Louis
- 2008 Volunteer (baseline assessment for conservation easements): The Nature Conservancy – St. Louis MO
- 2006 Field Assistant: Galapagos National Park, Ecuador/UM-St. Louis
- 2002/2003 Research Assistant: LTER Station, Portal Arizona/SLU
- 1995 – 2005 Research Assistant: Saint Louis Zoo, Research Department
- 1995 – 2004 AZA Contraception Advisory Group Database Manager: Saint Louis Zoo, Wildlife Contraception Center
- 1995 Intern: Saint Louis Zoo, Research Department
- 1994 Biological Technician: Sybille Wildlife Research & Conservation Education Unit - UW
- 1992 Biological Technician: University of Oklahoma

### **REVIEWER**

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- Journals:** Canid News/Canid Biology and Conservation  
Journal of Mammalogy  
Journal of Zoology  
Journal of Wildlife Management/Wildlife Society Bulletin  
Oryx  
Mammalian Species  
Reproduction, Fertility and Development Journal, CSIRO Publishing, Australia  
The World Conservation Union (IUCN) – Canid Specialist Group (CSG)  
ZOOCRIADEROS, CIRES Publisher, Venezuela  
KNOW – The Science Magazine for Curious Kids
- Books:** Free-ranging dogs and wildlife conservation. Editor: Matthew E Gompper

### **PROFESSIONAL MEMBERSHIPS**

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- American Society of Mammalogists  
Conservation Biology Society  
The Wildlife Society  
IUCN Canid Specialist Group  
IUCN Cat Specialist Group  
International Conservation Detection Dog Association (ICDDA)