

## CURRICULUM VITAE

**Name:** Maria Ana Diuk-Wasser, Ph.D.

**Term:** Assistant Professor July 1, 2007 –

**School Assignment:** School of Medicine

### Education:

Ph.D. Ecology & Evolution, University of California, Los Angeles, 2003

B.A. Biology, Universidad de Buenos Aires, Argentina, 1995

### Career:

1995 Teaching Assistant, Department of Biology, Universidad de Buenos Aires, Argentina.

1996-2003 Graduate Student, University of California, Los Angeles.

2001 Graduate Student Instructor, Department of Biology, University of California, Los Angeles

1996-2001 Teaching Assistant, Associate and Fellow, Department of Biology, University of California, Los Angeles

2003-2004 Post-Doctoral Associate, Department of Epidemiology and Public Health, Yale School of Medicine.

2004-2005 Post-Doctoral Fellow, Department of Epidemiology and Public Health, Yale School of Medicine.

2005-2007 Associate Research Scientist, Department of Epidemiology and Public Health, Yale School of Medicine.

2007-present Assistant Professor, Department of Epidemiology and Public Health, Yale School of Medicine.

### Professional Honors & Recognition:

2000 UCLA International Studies and Overseas Programs (ISOP) Fieldwork Fellowship Award for *Effect of environmental factors on the population genetics of Anopheles gambiae in Mali, West Africa.*

1999-2002 University of California at Los Angeles Graduate Research Fellowship.

2004-2005 Brown-Coxe Fellowship. Yale School of Medicine.

### Grant History:

#### Active

#### Principal Investigator:

"Development of an Interactive Internet Site for Lyme Disease Education"

Percent effort: 4%

Source: The G. Harold and Leila Y. Mathers Charitable Foundation (no award number)  
01 FEB 2006 - 31 JAN 2008

**Co-investigator:**

"USDA Northeast Regional Lyme Tick Control Project"

Source: USDA 58-790-2-073. 12.5% effort  
15 Aug 2006 – 14 Aug 2007

"USDA Ecoepidemiology & Emerging Arthropod-borne Pathogens in the Northeast"

Source: USDA 58-0790-5-068. 12.5% effort  
01 Apr 2005 – 31 Mar 2010

"Spatial Risk model for Ixodes scapularis-borne Borrelia"

Source: CDC 5 U01 CI000171-02. 71% effort.  
01 Apr 2004 – 31 Mar 2008

Complete

European Space Agency Earth Observation Exploitation Projects for Application of ERS-2 SAR data to monitoring malaria vector breeding habitats in an irrigated area of Africa (co-PI). \$5,000. 2001-2003.

Orange County Vector Control District for Applications of GIS/Remote Sensing to Vector Control (co-PI). \$15,000. 2001-2003.

Canadian Space Agency Data for Research Use Program for Use of RADARSAT SAR data to map and monitor rice growth stages in Mali, West Africa: Applications to Malaria Studies (co-PI). \$4,000. 2001.

Latin American Center Tinker Field Research Grant for Dengue transmission-risk map in the City of Buenos Aires, Argentina (PI). \$3,000. 2001.

**Invited lectures:**

- 2007 "Risky environments: Spatial modeling of vector-borne diseases." Department of Ecology, Evolution and Environmental Biology, Columbia University, New York, NY.
- 2006 "Spatial modeling of vector-borne Diseases." The Yale Institute of Biospheric Studies/Environmental Science Center Seminar Series, Yale University, New Haven, CT.
- 2006 "Observing the Earth from Space." EMD 548b, Department of Epidemiology and Public Health, Yale School of Medicine, New Haven, CT.
- 2005 "From point to surfaces: landscape modeling in vector-borne disease epidemiology." Epidemiology of Microbial Diseases Seminar Series, Yale School of Medicine, New Haven, CT.
- 2005 "Geographic Information Systems Applications in Epidemiology and Public Health." BIS 511a, Department of Epidemiology and Public Health, Yale School of Medicine, New Haven, CT.
- 2002 "Biomedical Research Issues in Minority Communities." Department of Biology, University of California, Los Angeles.

2002 “Computational Biology.” Department of Biology, University of California, Los Angeles.

### Courses:

2002 Malaria Research and Training Center. Bamako, Mali. Training Course on Geographical information systems.

2001 Collegium of Teaching Fellows, University of California, Los Angeles. Instructor: “Emerging Infectious Diseases: A multidisciplinary approach”.

1999 College of Letters and Sciences, University of California, Los Angeles. Teaching Fellow instructor: “The Global Environment”.

### Professional Service:

Ad hoc reviewer for *American Journal of Tropical Medicine and Hygiene*, *Journal of Medical Entomology*, *Bulletin of Entomological Research*, *Veterinary Medicine*, *International Journal of Parasitology*, *Tropical Medicine and International Health*, *International Journal of Remote Sensing* and *Photogrammetric Engineering and Remote Sensing*.

### University Service

2007 – Member of the Yale Institute for Biospheric Studies (YIBS) External Advisory Board

### Graduate student advising (Yale School of Public Health)

2007 Kelly Ann Liebmann. *The effect of climate variability on the phenology of larvae and nymphal Ixodes scapularis in the United States*

2007 Liza Lutzker. *Landscape Correlates of Lyme Disease Risk*

2006 Elizabeth Racz. *Environmental Factors Affecting Host-seeking Ixodes scapularis Ticks*

2006 Jessica Payne. *Body size and spirochete load in nymphal Ixodes scapularis ticks*

2005 Katherine Hansen. *Habitat characterization of the Lone Star Tick (Amblyomma americanum) using remote sensing and GIS*

2005 Laura Krueger. *Environmental correlates of I. scapularis nymph host-seeking activity*

### Bibliography:

#### Original articles:

1. **Diuk-Wasser, MA**, Cassini, MH. 1998. A study on the diet of minor grisons and a preliminary analysis of their role in the control of rabbits in Patagonia. *Studies on Neotropical Fauna and Environment* 33(1):3-6.
2. Merler, JA, **MA Diuk-Wasser**, R.D. Quintana. 2001. Winter diet of dusky-legged guan (*Penelope obscura*) at the Parana River Delta Region. *Studies on Neotropical Fauna and Environment* 36(1):33-38.
3. Carnahan, J, L Zheng, CE Taylor, YT Touré, DE Norris, G Dolo, **MA Diuk-Wasser**, GC Lanzaro. 2002. Genetic differentiation of *Anopheles gambiae* s.s. populations in Mali, West Africa, using microsatellite loci. *Journal of Heredity* 93(4):249-253.

4. **Diuk-Wasser, MA**, M Bagayoko, N Sogoba, G Dolo, MB Touré, SF Traoré, and CE Taylor. 2004. Mapping rice field Anopheline breeding habitats in Mali, West Africa, using Landsat ETM+ sensor data. *International Journal of Remote Sensing*. 25(2): 359–376.
5. **Diuk-Wasser, MA**, MB Touré, G Dolo, M Bagayoko, N Sogoba, SF Traoré, N Manoukis, and CE Taylor. 2005. Vector abundance and malaria transmission in rice-growing villages in Mali. *American Journal of Tropical Medicine and Hygiene* 72(6): 725-731.
6. **Diuk-Wasser, MA**, G Dolo, M Bagayoko, N Sogoba, MB Touré, M Moghaddam, S Rian, N Manoukis, SF Traoré and CE Taylor. 2006. Patterns of irrigated rice growth and malaria vector breeding in Mali using multitemporal ERS-2 Synthetic Aperture Radar. *International Journal of Remote Sensing* 27(3-4):535-548.
7. Manoukis, NC, MB. Touré, I Sissoko, S Doumbia, SF Traoré, **MA Diuk-Wasser** and CE Taylor. 2006. Is Vector Body Size the Key to Reduced Malaria Transmission in the Irrigated Region of Niono, Mali? *Journal of Medical Entomology* 43(5):820-827.
8. Hanincová, K, K Kurtenbach, **MA Diuk-Wasser**, B Brei, AG Barbour, J Bunikis and D Fish. 2006. Epidemic spread of Lyme borreliosis, Northeastern United States. *Emerging Infectious Diseases* 12(4): 604-611.
9. **Diuk-Wasser, MA**, A Gatewood, R Cortiñas, S Yaremych-Hamer, J Tsao, U Kitron, G Hickling, J Brownstein, E Walker, J Piesman, and D Fish. 2006. Spatiotemporal patterns of nymphal host-seeking *I. scapularis* (Acari: Ixodidae) in the United States. *Journal of Medical Entomology*, 43(2): 166 – 176.
10. **Diuk-Wasser, MA**, HE Brown, TG Andreadis and D Fish. 2006. Spatial prediction of West Nile virus vector habitats in Connecticut, USA. *Vector-borne and Zoonotic Diseases* 6(3):281-293.
11. **Diuk-Wasser, MA**, MB Touré, G Dolo, M Bagayoko, N Sogoba, I Sissoko, SF Traoré and CE Taylor. 2006. Patterns of rice cultivation affect malaria vector abundance in rice-growing villages in Mali. *American Journal of Tropical Medicine and Hygiene*. In Press.
12. Brown, H, **MA Diuk-Wasser**, T Andreadis and D Fish. Remotely-Sensed Vegetation Indices Identify Mosquito Clusters of West Nile Virus Vectors in New Haven, Connecticut, USA. In Press. *Vector-Borne and Zoonotic Diseases*.