

### **A. ALONSO AGUIRRE, DVM, MS, PhD**

Department of Environmental Science and Policy  
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#### **PROFESSIONAL GOAL**

Provide academic and operational leadership for all program activities, including academic curriculum development and administration, budget oversight for a department, college or school within a university setting. Provide the next generation of environmental science and policy leaders with unique educational and research opportunities that are transformational and transdisciplinary in nature within the context of globalization and international markets. Oversee the advancement of environmental science and policy, conservation biology, wildlife biology and management, conservation medicine, ecohealth, one health, and planetary health by providing leadership in teaching, research and service with administrative efficiency across disciplines.

#### **EXPERIENCE**

**CHAIR, ENVIRONMENTAL SCIENCE AND POLICY DEPARTMENT.** 2016-present. George Mason University, Fairfax, Virginia.  
**PROFESSOR, ENVIRONMENTAL SCIENCE AND POLICY DEPARTMENT.** 2011-present. George Mason University, Fairfax, VA  
**EXECUTIVE DIRECTOR, SMITHSONIAN-MASON SCHOOL OF CONSERVATION.** 2011-2014. Smithsonian Conservation Biology Institute, Front Royal, Virginia.

**DIRECTOR, MASON CENTER FOR CONSERVATION STUDIES.** 2012-2014, George Mason University, Fairfax, Virginia.

**SENIOR VICE PRESIDENT, CONSERVATION MEDICINE PROGRAM.** 2008-2011. EcoHealth Alliance, New York.

**DIRECTOR FOR CONSERVATION MEDICINE.** 2001-2008. Wildlife Trust, Palisades, New York.

**INTERNATIONAL FIELD WILDLIFE VETERINARIAN.** 1998-2001. Wildlife Trust, Center for Conservation Medicine, Tufts University School of Veterinary Medicine, North Grafton, Massachusetts.

**RESEARCH PROFESSOR.** 1998-2011. Ecology, Evolution & Environmental Biology Department, Columbia University, NY

**WILDLIFE EPIDEMIOLOGIST/RESEARCH VETERINARIAN.** 1996-1998. NOAA National Marine Fisheries Service Protected Species Investigation, Honolulu Laboratory, Hawaii.

**WILDLIFE EPIDEMIOLOGIST.** 1996. The National Veterinary Institute, Wildlife Department, Uppsala, Sweden.

**ASSISTANT PROFESSOR.** 1992-1996. Department of Fishery & Wildlife Biology, Colorado State University, Fort Collins, CO

**RESEARCH WILDLIFE VETERINARIAN.** 1992-1996. Wildlife Laboratories, Inc., Fort Collins, Colorado.

**RESEARCH ASSOCIATE.** 1990-1992. College of Veterinary Medicine, Oregon State University, Corvallis, Oregon.

**ASSOCIATE EDITOR.** 1989-1993. Wildlife Disease Review, Fort Collins, Colorado.

**RESEARCH ASSISTANT.** 1985-1990. Department of Fishery & Wildlife Biology, Colorado State University, Fort Collins, CO

#### **PROFESSIONAL ACTIVITIES & AWARDS**

- Member, *NCSE Council of Environmental Deans and Directors* (2019-present)
- Member, Board of Biological Sciences, *National Academy of Sciences* (2017-present)
- Affiliate Professor, *Institute for a Sustainable Earth*, George Mason University, Fairfax, VA (2019-present)
- Affiliate Faculty, Institute for Biohealth Innovation, George Mason University, Fairfax, VA (2019-present)
- Affiliate Faculty, TraCCC
- Review Editor, *EcoHealth Journal* (2011-present)
- Associate Editor, *Journal of Wildlife Diseases* (2010-present)
- Associate Editor, *European Journal of Wildlife Research* (2010-present)
- Member, *IUCN Wildlife Health Specialist Group* (2010-present)
- U.S. Delegate, *Trilateral Committee for Wildlife, Ecosystem Conservation and Management* (2005-present)
- Board Member at Large, *Wildlife Disease Association* (2015-2018)
- Distinguished Alumni Award, *Colorado State University Warner College of Natural Resources* (2014)
- Executive Member, Global Environmental Change and Human Health Scientific Steering Committee. *Earth System Science Partnership: DIVERSITAS, IGBP, IHDP, WCRP* (2008-2014)
- Executive Member, *NOAA's Oceans and Human Health Initiative National Advisory Panel* (2006-2012)
- Conservation Achievement Award, *State Commission of Parks and Wildlife, Mexico* (2010)
- *Harry Jalanka Memorial Medal*, Finland, the most prestigious award in zoo and wildlife medicine (1998)

- Treasurer, *Executive Board, International Association of Ecology and Health* (2006-2012)
- Executive Editorial Board, Coeditor, *EcoHealth Journal* (2002-2011)
- Awards & Nominations Committee, *International Association of Ecology and Health* (2007-2012)
- Chair, *World Association of Wildlife Veterinarians*. (2005-2010)
- Veterinary Advisor, *Research & Analysis Network for Neotropical Amphibians* (1998-2007)
- Advisor, *IUCN Veterinary Specialist Group* (1994-2010)
- Advisor, *Federal Attorney for Environmental Protection, PROFEPA/SEMARNAT, Mexico* (2003-2008)
- Reviewer, *Millennium Ecosystem Assessment Synthesis for the Health Sector* (2005)
- Wildlife Disease Consultant, *World Health Animal Organization (Office International Des Epizooties)* (1994-2002)
- Wildlife Diseases Committee Member, *U. S. Animal Health Association* (1990-2000)
- Chair, *Wildlife Disease Association Latin American Section* (1992-2001)
- President Elect, *American Association of Wildlife Veterinarians* (2000-2002)
- Scientific Advisor, *UN Development Program, Environmental Russian Policy Center, Diversitas, International Union for Conservation of Nature, Leibnitz Institute of Zoo and Wildlife Research (Berlin), Smithsonian*
- Recipient of over 25 grants, awards, and fellowships totaling over \$20 million dollars
- Advised over 20 M.S. and 10 Ph.D. students and many undergraduates

#### **EDUCATION**

**Ph.D.** 1990. Fisheries & Wildlife Biology/Protected Areas Management. Fishery & Wildlife Biology Department, Colorado State University, Fort Collins, Colorado

**M.S.** 1987. Fisheries & Wildlife Biology/Environmental Health. Fishery & Wildlife Biology Department, Colorado State University, Fort Collins, Colorado, 1987

**Veterinary Internship.** 1986. Wildlife Pathology and Diseases, USGS National Wildlife Health Research Center, Madison, Wisconsin, 1986

**Doctor of Veterinary Medicine.** 1984. Faculty of Veterinary Medicine and Animal Sciences, Autonomous University of the State of Mexico, Mexico.

#### **LICENSES & CERTIFICATIONS**

- **Veterinary Medicine and Surgery:** States of Colorado, New York, and Wisconsin; Mexico
- **Drug Enforcement Administration:** New York License
- **Diplomate Eligibility:** American College of Zoological Medicine
- **Certified Wildlife Biologist:** The Wildlife Society, Washington, DC
- **Wildlife Capture, Field Anesthesia & Management:** International Wildlife Veterinary Services
- **Envirovet - Wildlife and Ecosystem Health:** University of Minnesota, Duluth
- **Habitat Evaluation Procedures:** Evaluation of wildlife habitats & sensitive species. U.S. Fish and Wildlife Service

#### **INSTITUTIONAL ANIMAL CARE AND USE COMMITTEES**

- Chair, George Mason University, Fairfax, Virginia (2015-date)
- Chair, EcoHealth Alliance (formerly Wildlife Trust), New York, New York (2008-2011)

#### **MOST RELEVANT PUBLICATIONS**

Edited and published more than 160 monographs, professional papers, and proceedings on wildlife diseases, wildlife anesthesia, wildlife medicine, ecosystem health, and conservation medicine

Aguirre A.A., T. Longcore, M. Barbieri, H. Dabritz, D. Hill, P.N. Klein, C. Lepczyk, E.L. Lilly, R. McLeod, J. Milcarsky, C.E. Murphy, C. Su, E. VanWormer, R. Yolken, and G.C. Sizemore. 2019. The One Health approach to toxoplasmosis: Epidemiology, control and prevention in humans, animals, and ecosystems. *EcoHealth* <https://doi.org/10.1007/s10393-019-01405-7>

Aguirre A.A., N. Basu, L.H. Kahn, X.K. Morin, P. Echaubard, B.A. Wilcox, and V.R. Beasley. 2019. Transdisciplinary and social-ecological health frameworks—Novel approaches to emerging parasitic and vector-borne diseases. *Parasite Epidemiology and Control* 4:e00084.

Wilcox B.A., A.A. Aguirre, N. De Padua, B. Siriaronrat, and P. Echaubard, 2019. Operationalizing One Health employing social-ecological systems theory: lessons from the Greater Mekong Subregion. *Frontiers in Public Health* (in press)

Dallas T.A., A.A. Aguirre, S. Budischak, C. Carlson, V.O. Ezenwa, B.A. Han, S. Huang and P.R. Stephens. 2018. Gauging support for macroecological patterns in helminth parasites. *Global Ecology and Biogeography* DOI: 10.1111/geb.12819

Aguirre A.A. 2017. Changing patterns of emerging zoonotic diseases in wildlife, domestic animals, and humans linked to biodiversity loss and globalization. *ILAR Journal* 58(3): <https://doi.org/10.1093/ilar/ilx035>

Aguirre, A.A., V.R. Beasley, T. Augspurger, W.H. Benson, J. Whaley and N. Basu. 2016. One Health—Transdisciplinary opportunities for SETAC leadership in integrating and improving the health of people, animals, and the environment. *Environmental Toxicology and Chemistry* 35:2383-2391.

Stephens P.R., S. Altizer, K.F. Smith, A.A. Aguirre, J.H. Brown, S.A. Budischak, J.E. Byers<sup>1</sup>, T.A. Dallas, T.J. Davies, J.M. Drake, V.O. Ezenwa, M.J. Farrell, J.L. Gittleman, B.A. Han, S. Huang, R.A. Hutchinson, P. Johnson, C.L. Nunn, D. Onstad, A. Park, G.M. Vazquez-Prokopec, J.P. Schmidt, and Robert Poulin. 2016. The macroecology of infectious diseases: A new perspective on global-scale drivers of pathogen distributions and impacts. *Ecology Letters* doi: 10.1111/ele.12644

Jacobsen K.H., A.A. Aguirre, C.L. Bailey, A.V. Baranova, A.T. Crooks, A. Croitoru, P.L. Delamater, J. Gupta, K. Kehn-Hall, A. Narayanan, M. Pierobon, K.E. Rowan, J.R. Schwebach, P. Seshaiyer, D.M. Sklarew, A. Stefanidis, and P. Agouris. 2016. Lessons from the Ebola Outbreak: 10 Action Items for Emerging Infectious Disease Preparedness and Response. *EcoHealth* 13 (1):200-212. DOI: 10.1007/s10393-016-1100-5.

Stephens P.R., S. Altizer, K.F. Smith, A.A. Aguirre, J.H. Brown, S.A. Budischak, J.E. Byers, T.A. Dallas, T.J. Davies, J.M. Drake, V.O. Ezenwa, M.J. Farrell, J.L. Gittleman, B.A. Han, S. Huang, R.A. Hutchinson, P. Johnson, C.L. Nunn, D. Onstad, A. Park, G.M. Vazquez-Prokopec, J.P. Schmidt, and Robert Poulin. 2016. The macroecology of infectious diseases: A new perspective on global-scale drivers of pathogen distributions and impacts. *Ecology Letters* DOI: 10.1111/ele.12644

Hyatt A., A.A. Aguirre, M. Jeggo and R. Woods. 2015. Effective coordination and management of emerging infectious diseases in wildlife. *EcoHealth* 12 (3): 408-411. DOI: 10.1007/s10393-015-1045-0.

Aguirre, A.A., and R. Sukumar (eds.). 2016. *Tropical Conservation: Perspectives on Local and Global Priorities*. Oxford University Press, New York, 491 pp.

Suzán G., G. E. García-Peña, I. Castro-Arellano, O. Rico, A. V. Rubio, M. J. Tolsá, B. Roche, P. R. Hosseini, A. Rizzoli, K. A. Murray, C. Zambrana-Torrel, A. A. Aguirre, et al. 2015. Metacommunity and phylogenetic structure determine wildlife and zoonotic infectious disease patterns in time and space. *Ecology and Evolution* doi: 10.1002/ece3.1404

Gonzalez-Astudillo V. and A. A. Aguirre. 2014. Achieving transdisciplinary EcoHealth education in early professional development. *EcoHealth* 11(1):1-2.

Parsons E.C.M., B. Favaro, A. A. Aguirre, A. L. Bauer, et al. 2014. Seventy-one important questions for the conservation of marine biodiversity. *Conservation Biology* 29 April, DOI: 10.1111/cobi.12303

Aguirre, A. A., R. S. Ostfeld, and P. Daszak, eds. 2012. *New Directions in Conservation Medicine: Applied Cases of Ecological Health*. Oxford University Press, New York, 639 pp.

Aguirre, A. A. 2012. Developing global capacity in conservation medicine: predicting and preventing the next epidemic from wildlife. *Global Bioethics* 27 (1-4):51-54.

Aguirre, A. A., R. S. Ostfeld, G. M. Tabor, C. A. House and M. C. Pearl (eds.). 2002. *Conservation Medicine: Ecological Health in Practice*. Oxford University Press, New York, 407 pp.