CURRICULUM VITAE

**Anthony J. DeNicola**

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**Education**

1996 Ph.D. Purdue University (GPA: 4.0/4.0)

**Thesis**: "Control of reproduction in overabundant white-tailed deer populations"

1990 M.E.S. Yale University School of Forestry (GPA: 3.5/4.0)

1988 B.S. Trinity College, Hartford, Connecticut (GPA: 3.3/4.0)

1986-87 Visiting student, University of Vermont

**Experience**

2016-present Strategic Advisory Board, Pneu-Dart, Inc.

2015-present Panel on Vertebrate Depopulation, American Veterinary Medical Association

2015-present Technical Advisor, Coastal Conservation – Canada

2013-present Master NWCOA Instructor for Shooting in Sensitive Environments

1999-present Certified Wildlife Biologist, The Wildlife Society

1995-present President, White Buffalo, Inc.

2012-2018 Board Member, National Wildlife Control Operators Association (NWCOA)

2013-2016 Research Associate, University of Georgia

1997-2015 Research Associate, Denver Zoological Foundation

2003-2006 Adjunct Faculty Member, Rutgers University

1998-2004 Research Associate, University of Illinois

1995-2005 Visiting Faculty Member, Trinity College

1997-2003 Research Affiliate, Yale University

1989-2006 Nuisance Wildlife Control Operator, State of Connecticut

**Honors and Awards**

1995 The Honor Society of Agriculture, Gamma Sigma Delta

1994 Best Paper Award, Indiana Chapter of The Wildlife Society

1988J. Wendell Burger Prize, Trinity College award for outstanding

achievement/performance in biology

**Research Support**

2019-2024 Staten Island, New York, "Demographic and behavioral impacts of an intensive male sterilization program for free-ranging white-tailed deer", $2,000,000, Principal investigator

2016-2019 Staten Island, New York, "Demographic and behavioral impacts of an intensive male sterilization program for free-ranging white-tailed deer", $4,300,000, Principal investigator

2016-2020 Ann Arbor, Michigan, "Examining the effectiveness of surgical sterilization and sharpshooting as a combined approach for managing suburban white-tailed deer populations", $395,000, Principal investigator

2015-2020 Cincinnati Parks, Cincinnati, OH, "Experimental control of a suburban population of white-tailed deer using surgical sterilization", $145,000, Principal investigator

2014-2019 National Institutes of Health, Bethesda, MD, "Experimental control of an enclosed urban population of white-tailed deer using surgical sterilization", $135,000, Principal investigator

2014-2015 Village of East Hampton, New York, "Cost, feasibility, and population impacts of an intensive sterilization program for free-ranging white-tailed deer in a suburban community with unmanaged hunting", $190,000, Principal investigator

2012-2018 Fairfax, Virginia, "Experimental control of a suburban population of white-tailed deer using surgical sterilization", $140,000, Principal investigator

2013-2016 The Villages Golf and Country Club, San Jose CA, "Experimental control of a partially enclosed suburban population of white-tailed deer using surgical sterilization", $180,000, Principal investigator

2012-2016 The Village of Cayuga Heights, NY, "Experimental control of a suburban population of white-tailed deer using surgical sterilization", $205,000, Principal investigator

2012-2015 Center for Disease Control, "An Integrated and Individual Tick Management program to reduce risk of Lyme disease in a residential endemic area", $152,525, Co-principal investigator

2012-2014 E. I. du Pont de Nemours and Co., Bridgeport, Connecticut, "Evaluation of dart-delivered GonaCon immunocontraceptive in female white-tailed deer", $62,800, Principal investigator

2011-2015 Wildlife Rescue, Phoenix, MD, "Experimental control of a suburban population of white-tailed deer using surgical sterilization", $105,000, Principal investigator

2005-2008 E. I. du Pont de Nemours and Co., Newark, Delaware, "Experimental control of an enclosed suburban population of white-tailed deer using sharpshooting followed by GonaConTM immunocontraceptive treatments", $108,000, Principal investigator

2005-2008 Giralda Farms, Madison, New Jersey, “Efficacy evaluation of GonaConTM immunocontraceptive vaccine for white-tailed deer: A FDA pivotal field study", $190,000, Principal investigator

2004-2006 Princeton Township, NJ, "Experimental control of a suburban population of white-tailed deer using SpayVac® ", $120,000, Principal investigator

* 1. Cleveland Metroparks, Cleveland, Ohio, "Experimental control of an urban population of white-tailed deer using contraception ", $542,150, Principal investigator

2004-2007 E. I. du Pont de Nemours and Co., Bridgeport, Connecticut, "Evaluation of alternative PZP immunocontraceptive formulations in female white-tailed deer", $110,000, Principal investigator

2000-2003 E. I. du Pont de Nemours and Co., Bridgeport, Connecticut, "Evaluation of alternative PZP immunocontraceptive formulations in female white-tailed deer", $63,860, Principal investigator

* 1. E. I. du Pont de Nemours and Co., Bridgeport, Connecticut, "Experimental control of an enclosed suburban population of white-tailed deer using contraception", $29,268, Principal investigator

1999-2000 Center for Disease Control, "Control of the tick, Ixodes scapularis,

on white-tailed deer at an urban Lyme disease focus", $20,960, Co-

principal investigator

1999-2000 United States Department of Agriculture, "Control of the tick, Ixodes scapularis Say, on white-tailed deer at a suburban Lyme disease focus", $30,000, Co-principal investigator

1998-1999 Center for Disease Control, "Control of the tick, Ixodes scapularis Say,

on white-tailed deer at an urban Lyme disease focus", $20,600, Co-

principal investigator

1998-1999 United States Department of Agriculture, "Control of the tick, Ixodes scapularis Say, on white-tailed deer at a suburban Lyme disease focus", $50,000, Co-principal investigator

1997-1998 Center for Disease Control, "Control of the tick, Ixodes scapularis Say,

on white-tailed deer at an urban Lyme disease focus", $20,000, Co-

principal investigator

1997-1998 United States Department of Agriculture, "Control of the tick, Ixodes scapularis Say, on white-tailed deer at a suburban Lyme disease focus", $46,000, Co-principal investigator

1995-1999 E. I. du Pont de Nemours and Co., Bridgeport, Connecticut, "Evaluating adjuvants and effects of long-term contraception on female white-tailed deer", $248,888, Co-principal investigator

1993-1996 Northern Indiana Public Service Company, "Efficacy of chemical contraception on female white-tailed deer", $51,236, Co-principal investigator

**Society Affiliations**

National Animal Damage Control Association

The Wildlife Society

**Research Interest**

Behavioral /Ecological approaches to wildlife damage control

Control of introduced vertebrate species

Wildlife reproductive control

**Oral Presentations**

2020 The Wildlife Society 27th Annual Conference

2019 Northeast Fish and Wildlife Conference, Mystic, CT

Tribal Nation Free-Roaming Horse and Burro Management Workshop, Phoenix, AZ

International Urban Wildlife Conference, Portland, OR

2018 Workshop on Wildlife Fertility Control, Tarrytown, NY

Northeast Deer Technical Committee Meeting, Averill, VT

The Wildlife Society 25th Annual Conference, Cleveland, OH

American Veterinary Medical Association; Humane Endings Conference, Chicago, IL

Free-Roaming Horse and Burro Fertility Control Workshop, Albuquerque, NM

2017 8th International Conference on Wildlife Fertility Control, Washington, D.C.

2015 Texas Parks and Wildlife Urban Deer Workshop; San Marcos, TX

2014 American Veterinary Medical Association; Humane Endings Conference

2014 Deer Management Forum, Mt Lebanon, PA

2013 Deer Management Forum on Surgical Sterilization, East Hampton, NY

2011 North American Deer Farmers Association Annual Conference

2010 National Wildlife Control Operators Association Conference

Northeast Fish and Wildlife Conference

University of Tokyo

The Wildlife Society 17th Annual Conference

46th Annual NE Deer Technical Committee Meeting

George Wright Society

2009 Vassar College

2008 Northeast Fish and Wildlife Conference

2007 Northeast Fish and Wildlife Conference

2006 Texas State University

2004 Rutgers Animal Science Department Seminar Series

2003 The Wildlife Society 10th Annual Conference

2001 Northeast Fish and Wildlife Conference

1. Joint Midwest and Northeast Deer Technical Committee Meeting

Eastern Wildlife Damage Management Conference

1. Northeast Deer Technical Committee Meeting

Coe College Biology Seminar and Issues Discussion

1. The Wildlife Society 5th Annual Conference

Connecticut Nuisance Wildlife Control Operator’s Euthanasia Training Course

1997 Southeast Deer Study Group Meeting

Northeast Fish and Wildlife Conference

Midwest Fish and Wildlife Conference

1996 Northeast Fish and Wildlife Conference

The Wildlife Society 3rd Annual Conference

1994 Indiana Chapter of The Wildlife Society

American Society of Mammalogists, 75th Anniversary Meeting

Sycamore Audubon Society

Indiana Department of Natural Resources, Deer Advisory Committee

1993 Midwest Fish and Wildlife Conference

1992 Northeast Deer Technical Committee Meeting

# Manuscripts In Print

Bertrand, M. R., A. J. DeNicola, S. R. Beissinger, and R. K. Swihart. 1996. Effects of parturition on home-ranges and social affiliations of female white-tailed deer. Journal of Wildlife Management 60:899-909.

Boulanger, J. R., P. D. Curtis, E. G. Cooch, and A. J. DeNicola. 2012. Sterilization as an alternative deer control technique. Human-Wildlife Interactions 6(2):273-282.

Cleveland, C. A., A. DeNicola, J.P. Dubey, D.E. Hill, R. D. Berghaus, and M. J. Yabsley. 2017. Survey for select pathogens in wild pigs (*Sus scrofa*) from Guam, Marianna Islands, USA. Veterinary Microbiology. 205:22-25.

Cleveland, C. A., Swanepoel,L., Box, E. K., DeNicola, A., and M. J. Yabsley. 2019. *Rickettsia* species in ticks collected from wild pigs (*Sus scrofa*) and Philippine deer (*Rusa marianna*) on Guam, Marianna Islands, USA. Acta Tropica. DOI information: 10.1016/j.actatropica.2019.03.010.

Daniels, T. J., R. C. Falco, E. E. McHugh, J. Vellozzi, T. Boccia, A. J. DeNicola, J. M. Pound,

J. A. Miller, J. E. George, and D. Fish. 2009. Acaricidal treatment of white-tailed deer to control Ixodes scapularis (Acari: Ixodidae) in a New York Lyme disease-endemic community. Vector-Borne and Zoonotic Diseases 9:381-387.

DeNicola, A. J., and V. L. DeNicola. 2020. Surgical sterilization as a management technique in suburban deer populations. Wildlife Society Bulletin. In review.

DeNicola, A. J., D. Etter, and T. Almendinger. 2008. Demographics of non-hunted white-tailed deer populations in suburban areas. Human-Wildlife Conflicts 2:102-109.

DeNicola, A. J., D. J. Kesler, and R. K. Swihart. 1996. Ballistics of a biobullet delivery system. Wildlife Society Bulletin 24:301-305.

DeNicola, A. J., D. J. Kesler, and R. K. Swihart. 1997. Dose determination and efficacy of remotely delivered norgestomet implants on contraception in white-tailed deer. Zoo Biology 16:31-37.

DeNicola, A. J., D. J. Kesler, and R. K. Swihart. 1997. Remotely delivered prostaglandin F2 implants terminate pregnancy in white-tailed deer. Wildlife Society Bulletin 25:527-531.

DeNicola A. J., D. S. Miller, V. L. DeNicola, R. E. Meyer, and J. Gambino. 2019. Assessment of humaneness using gunshot targeting the brain and cervical spine for cervid depopulation under field conditions. PLOS ONE. <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0213200> <https://doi.org/10.1371/journal.pone.0213200>

DeNicola, A. J., and R. K. Swihart. 1997. Capture-induced stress in white-tailed deer. Wildlife Society Bulletin 25:500-503.

DeNicola, A. J., R. K. Swihart, and S. R. Beissinger. 1992. Testing secondary metabolites of plants as deer repellents. Transactions of the Northeast Section of the Wildlife Society 48:120-125.

DeNicola, A. J., R. K. Swihart, and D. J. Kesler. 1996. The effect of remotely delivered gonadotropin formulations on reproductive function of white-tailed deer. Drug Development and Industrial Pharmacy 22:847-850.

DeNicola, A. J., K. C. VerCauteren, P. D. Curtis and S. E. Hyngstrom. 2000. Managing white-tailed deer in suburban environments: A technical guide. Cornell Cooperative Extension, Cornell University. 52pp.

DeNicola, A. J., S. J. Weber, C. A. Bridges, and J. L. Stokes. 1997. Nontraditional techniques for management of overabundant deer populations. Wildlife Society Bulletin 25:496-499.

DeNicola, A. J., and S. C. Williams. 2008. Sharpshooting suburban white-tailed deer reduces deer-vehicle collisions. Human-Wildlife Conflicts 2:28-33.

Evans, C. S., DeNicola, A. J., Eisemann, J. D., Eckery, D. C., and R. J. Warren. 2015. Administering GonaConTM to white-tailed deer via hand-injection vs. syringe-dart. Human-Wildlife Interactions 9:265-272.

Evans, C. S., DeNicola, A. J., and R. J. Warren. 2016. Immunocontraceptive vaccines or surgical sterilization for deer? A question of effort and efficacy. Wildlife Society Bulletin 40:593-598.

Gagnier, G., I. Laurion, and A. J. DeNicola. 2020. Control and Surveillance Operations to Prevent

Chronic Wasting Disease Establishment in Free-Ranging White-Tailed Deer in Québec, Canada. Animals 10:283; doi:10.3390/ani10020283.

Gionfriddo, J. P., A. J. DeNicola, L. A. Miller, and K. A. Fagerstone. 2011. Efficacy of GnRH immunocontraception of wild white-tailed deer in New Jersey. Wildlife Society Bulletin 35:142-148.

Gionfriddo, J. P., A. J. DeNicola, L. A. Miller, and K. A. Fagerstone. 2011. Health effects of GnRH immunocontraception of wild white-tailed deer in New Jersey. Wildlife Society Bulletin 35:149-160.

Hampton, J. O., J. M. Arnemo, R. Barnsley, M. Cattet, P. Daoust, A. J. DeNicola, G. Eccles, D. Fletcher, L. Hinds, R. Hunt, T. Portas, S. Stokke, B. Warburton, and C. Wimpenny. 2020. Animal welfare testing for ballistic techniques. Wildlife Research. Submitted.

Hampton, J. O., D. M. Forsyth, and A. J. DeNicola. 2020. Assessment of Lead-Free .22 LR Bullets for Shooting European Rabbits. Wildlife Society Bulletin. 1–6; DOI: 10.1002/wsb.1127.

Hanson, C. C., T. J. Hall, A. J. DeNicola, S. Silander, B. S. Keitt, and K. J. Campbell. 2019. Rhesus macaque eradication to restore the ecological integrity of Desecheo National Wildlife Refuge, Puerto Rico. In C.R. Veitch, M.N. Clout, A.R. Martin, J.C. Russell and C.J. West (eds.). Island invasives: scaling up to meet the challenge, pp. 249–255. Occasional Paper SSC no. 62. Gland, Switzerland: IUCN.

Kenny,D. E., A. J. DeNicola, S. Amgalanbaatar, Z. Namshir, G. Wingard, and R. P. Reading. 2008. Successful field capture techniques for free-ranging argali sheep (*Ovis ammon*) in Mongolia. Zoo Biology 0:1-8.

Kesler, D. J., D. T. Bechtol, and A. J. DeNicola. 1998. Administration of pharmaceuticals and vaccines via remote delivery in biodegradable, needle-less implants. Large Animal Practice 19:22-27.

Kilpatrick, H. J., A. J. DeNicola, and M. E. Ellingwood. 1996. Comparison of standard and transmitter-equipped darts for capturing white-tailed deer. Wildlife Society Bulletin 24:306-310.

Kilpatrick, H. J., S. M. Spohr, and A. J. DeNicola. 1997. Darting urban deer: techniques and technology. Wildlife Society Bulletin 25:542-545.

Magnarelli, L. A., A. J. DeNicola, K. C. Stafford III, and J. F. Anderson. 1995. Borreliaburgdorferi in an urban environment: white-tailed deer with infected ticks and antibodies. Journal of Clinical Microbiology 33:541-544.

Mehrpad, S., C. A. Cleveland, A. J. DeNicola, J. P. Dubey, and M. J. Yabsley. 2018. Survey for select pathogens in Philippine deer (*Rusa marianna*) from Guam, Marianna Islands, USA. Veterinary Parasitology. Submitted.

Morrison, S. A., A. J. DeNicola, K. Walker, D. Dewey, L. Laughrin, R. Wolstenholme, and N. Macdonald. 2016. An irruption interrupted: Eradication of wild turkey from Santa Cruz Island, California. Oryx 50:121-127.

O’Donnell, M. A., and A. J. DeNicola. 2006. Den site selection of lactating female raccoons following removal and exclusion from suburban residences. Wildlife Society Bulletin 34:366-370.

Reading R.P., S. Amgalanbaatar, D. Kenny, A. J. DeNicola, and E. Tuguldur. 2007. Siberian Ibex (Capra sibirica) Home Ranges in Ikh Nart Nature Reserve, Mongolia: Preliminary Findings. Mongolian Journal of Biological Sciences 2007 Vol. 5:29-37.

Reading, R. P., S. Amgalanbaatar, D. Kenny, Yo. Onon, Z. Namshir, and A. DeNicola.  2003.  Argali ecology in Ikh Nartiin Chuluu Nature Reserve: Preliminary Findings.  Mongolian Journal of Biological Sciences 1:3-14.

Reading, R. P., S. Amgalanbaatar, G. J. Wingard, D. Kenny, and A. DeNicola.  2005.  Ecology of argali in Ikh Nartiin Chuluu, Dornogobi Aimag. Erforschung Biologischer Resourcen der Mongolei (Halle/Saale) 9:77-89.

Reading, R.P., D. Kenny, S. Amgalanbaatar, A. J. DeNicola, and G. Wingard. 2009. Argali Lamb (Ovis ammon) morphometric measurements and survivorship in Mongolia. Mammalia 73:98-104.

Stafford, K. C., III, A. J. DeNicola, and L. A. Magnarelli. 1996. Presence of Ixodiphagus hookeri (Hymenoptera: Encyrtidae) in two Connecticut populations of Ixodes scapularis (Acari: Ixodidae). Journal of Medical Entomology 33:183-188.

Stafford, K. C., III, A. J. DeNicola, J. M. Pound, J. A. Miller, and J. E. George. 2009. Topical treatment of white-tailed deer with an acaricide for the control of Ixodes scapularis (Acari: Ixodidae) in a Connecticut Lyme borreliosis hyperendemic community. Vector-Borne and Zoonotic Diseases 9:371-379.

Stafford, K. C., III, A. J. DeNicola, and H. J. Kilpatrick. 2003. Reduced abundance of Ixodes scapularis (Acari: Ixodidae) and the tick parasitoid Ixodiphagus hookeri (Hymenoptera: Encyrtidae) with reduction of white-tailed deer. Journal of Medical Entomology 40:642-652.

Swihart, R. K., and A. J. DeNicola. 1995. Modeling the impacts of contraceptives on populations of white-tailed deer. Pages 151-163 in J. McAninch, ed. Urban deer - a manageable resource? North Central Chapter of The Wildlife Society.

Swihart, R. K., and A. J. DeNicola. 1997. Public involvement, science, management, and the overabundance of deer: Can we avoid a hostage crisis? Wildlife Society Bulletin 25:382-387.

Swihart, R. K., P. M. Picone, A. J. DeNicola, and L. Cornicelli. 1995. Ecology of urban and suburban white-tailed deer. Pages 35-44 in J. McAninch, ed. Urban deer - a manageable resource? North Central Chapter of The Wildlife Society.

Swihart, R. K., H.P. Weeks, Jr., A.L. Easter-Pilcher, and A. J. DeNicola. 1998. Nutritional condition and fertility of white-tailed deer (*Odocoileus virginianus*) from areas with contrasting histories of hunting. Canadian Journal of Zoology 76:1932-1941.

Tufts,D. M., M. C. VanAcker, M. P. Fernandez, A. DeNicola, A. Egizi, and M. Diuk-Wasser. 2019. Emergence of *Haemaphysalis longicornis* on Staten Island, NY: tick distribution, host-seeking phenology, host, and habitat associations. Emerging Infectious Diseases. Volume 25: April.

Williams S. C., and A. J. DeNicola. 2001. Spatial movements in response to baiting female white-tailed deer. Proceedings of the Ninth Wildlife Damage Management Conference. State College, Pennsylvania.

Williams S. C., and A. J. DeNicola. 2005. Home range increase of lactating female white-tailed deer following herd reduction. Northeast Wildlife 57:29-38.

Williams, S. C., A. J. DeNicola, T. Almendinger, and J. Maddock. 2013. Evaluation of organized hunting as a management technique for overabundant white-tailed deer in suburban landscapes**.** Wildlife Society Bulletin 37:137-145.

Williams, S. C., A. J. DeNicola, and I. M. Ortega. 2008. Behavioral responses of white-tailed deer subjected to lethal management. Canadian Journal of Zoology 86:1358-1366.