

Curriculum Vitae

**Basil V. Iannone**

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**A. GENERAL RESEARCH INTERESTS**

I am interested in understanding the many ways that individual species (humans included), community structure, and ecosystem processes interact to influence one another, ecosystem functionality/services, and future community development, particularly in the context of ecological restorations and biological invasions. I have also become interested in studying how to construct various land covers in human-dominated settings that will provide necessary ecosystem services. I attempt to treat the systems that I study as holistically as possible. I therefore utilize analytical techniques such as multivariate statistics and computational, agent-based models that allow for the detection of significant patterns among complex interactions of many inter-related variables.

**B. EDUCATION**

*Graduate Education:*

University of Illinois at Chicago, Department of Biological Sciences, Ph.D. candidate  
Dissertation: Identifying landscape-level invasion patterns, belowground consequences, and legacies in *Rhamnus cathartica*-invaded woodlands  
Advisors: Dr. David H. Wise (UIC) and Dr. Liam Heneghan (Environmental Science Program, DePaul University)

University of Minnesota, Department of Ecology, Evolution, and Behavior, St. Paul, MN  
M.S. Ecology, Evolution, and Behavior, earned July 2007.  
Thesis: Evaluation of resource-limiting strategies intended to facilitate sedge meadow restorations by preventing *Phalaris arundinacea* L. invasion  
Advisor: Dr. Susan M. Galatowitsch

*Post B.S. Education to Fulfill M.S. Prerequisites:*

Colorado State University, Dept. of Fisheries and Wildlife Biology, Fort Collins, CO.  
2001 - 2003.  
Front Range Community College, Science Department, Fort Collins, CO.  
2000 - 2001.

*Undergraduate Education:*

West Chester University, Department of Music, West Chester, PA.  
1989 -1993. B.M. Music Performance earned December 1993.  
Penn State University, Mont Alto Campus, Mont Alto, PA.  
1988 - 1989.

## C. EXPERIENCE

### *Research Experience:*

Research Assistant (2004 – 2007). Department of Ecology, Evolution, and Behavior, University of Minnesota, St. Paul, Minnesota. I investigated methods of creating an environment, in sedge meadow restorations, where native plants can outcompete an invasive perennial grass by limiting light via sowing native cover crops, and soil nitrogen via carbon amendments. Funding provided by the Minnesota Department of Transportation. Dr. Susan M. Galatowitsch, advisor.

Biological Technician (2002 and 2004). U.S. Geological Survey, Center for Disease Control, and Colorado State University, Fort Collins, Colorado. Assisted in a population study of urban big brown bats, including rabies and parasite transmission, movement and habitat use, and analysis of mitochondrial DNA of sympatric eastern and western subspecies. Work included mist netting, collecting tissue samples, taxonomy of bats and parasites, pit-tagging, radio-telemetry, data entry, and public relations. Dr. Tom O'Shea, supervisor.

Biological Technician (2003). Department of Fish and Wildlife Resources, University of Idaho, Moscow, Idaho. Assisted in a population and behavioral ecology study of moose in Rocky Mountain National Park that quantified energy expenditure, and vegetation consumption to estimate summer carrying capacity. Work involved 24-hour surveys of activity and movement, identifying plant species and amounts being consumed, collection of fecal and plant samples, and data entry. Jason Dungan, graduate student, and Dr. Gerald R. Wright, supervisor.

Work Study (2002- 2003). Stream Ecology Lab, Colorado State University, Fort Collins, Colorado. Assisted in a community ecology study that investigated impacts of riparian disturbance and non-native fish invasion on stream food webs and cross-habitat resource subsidies. Work involved processing stream and forest invertebrate samples, as well as keying specimens to order, family, and species level. Dr. Colden Baxter and Dr. Kurt Fausch, supervisors.

Biological Technician (2000-2001). Colorado Division of Wildlife, Fort Collins, Colorado. Assisted in a population ecology study of greater sage grouse in the Middle Park area of Colorado, that investigated movement, habitat preference, and effects of past sagebrush removal on population dynamics. Work involved radio-telemetry, leading a crew to collect vegetation data in controls and sagebrush removal areas, data entry, and obtaining access permission from private landowners. Sherri Huwer, graduate student, and Dr. Tom Remington, supervisor.

***Research Experience Continued:***

Volunteer (1999-2000). Colorado Division of Wildlife, Fort Collins, Colorado. Assisted in a study of movement and distribution of an introduced population of river otters in Rocky Mountain National Park. Work involved surveys of the South Fork of the Poudre River to document and photograph otter signs, such as possible dens, and fecal piles. Also assisted in winter roost counts of bald eagles and other predatory birds.

Volunteer (1998-1999). Valley Forge National Historical Park, Valley Forge, Pennsylvania. Work involved maintenance of water quality lab, testing water samples from Valley Creek, its tributaries, and wells in the park for various chemical and physical parameters, sampling benthic macro-invertebrates to use in assessing water quality, radio-telemetry of white-tailed deer to study individual ranges in an urban population, and sampling parameters of white-tail deer fawn bed sites such as the amount of canopy cover, and ground temperature. Kristina Heister, supervisor.

***Teaching Experience:***

Teaching Assistant (2009). Biology 230, Ecology and Evolution. Department of Biological Sciences, University of Illinois at Chicago.

Teaching Assistant (2006-2007). Biology 1001, Evolutionary and Ecological Perspectives. College of Biological Sciences, University of Minnesota, Minneapolis, Minnesota.

Guitar Teacher (1994-2000). Donohue's Music, Thorndale, Pennsylvania and Lynne Music, Springfield, Pennsylvania.

Private Tutor (1993). Acoustics of Music, MTC 450, West Chester University, School of Music. West Chester, Pennsylvania.

***Additional Experience:***

Student-run seminar organizer (2009). This seminar is sponsored by students from the LEAP IGERT Fellowship, and the departments of Biological Sciences and Earth and Environmental Sciences at the University of Illinois at Chicago.

Incoming Graduate Student Mentor (2005-2007). Department of Ecology, Evolution and Behavior, University of Minnesota, St. Paul, Minnesota.

Student Academic Grievance Committee Representative (2005-2007). Department of Ecology, Evolution and Behavior, University of Minnesota, St. Paul, Minnesota.

Audio Visual Crew (2004-2005). Department of Ecology, Evolution and Behavior, University of Minnesota, St. Paul, Minnesota.

***Additional Experience Continued:***

Work Study (2001). Colorado Cooperative Fish and Wildlife Research Unit, Colorado State University, Fort Collins, Colorado. Work involved vehicle maintenance, the upkeep of study areas. Dr. Eric P. Bergersen, supervisor.

Volunteer Interpreter (1998-1999). Nature Center, Valley Forge Historical Park, Valley Forge, Pennsylvania. Work involved maintenance of live animal displays and answering visitor's questions about ecological issues within the park. Kristina Heister, supervisor.

**D. SCHOLARSHIPS, GRANTS, AND FELLOWSHIP AWARDS**

NSF IGERT Fellowship (2007). Landscape, Ecological, and Anthropogenic Processes.

Ecology, Evolution, and Behavior Block Grant (2006). Administered through the The Department of Ecology, Evolution, and Behavior, University of Minnesota, Minneapolis, Minnesota (\$1,250).

J.E. Weaver Competitive Grant (2006). Administered through the Nebraska chapter of The Nature Conservancy, Aurora, Nebraska (\$1,000).

Florence Rothman Fellowship (2006). Administered through the College of Biological Sciences, University of Minnesota, Minneapolis, Minnesota (\$1,000).

Dayton-Wilkie Natural History Fund (2005). Administered through the Bell Museum of Natural History, Minneapolis, Minnesota (\$1,000).

College of Natural Resources Scholarship (2002). Administered through the College of Natural Resources, Colorado State University, Fort Collins, Colorado (\$1,200).

Delano F. Scott Scholarship (2002). Administered through the College of Natural Resources, Colorado State University, Fort Collins, Colorado (\$1,200).

**E. PRESENTATIONS**

Presenter (2007). Ecological Society of America and Society of Ecological Restoration Joint Meeting. San Jose McEnery Convention Center, San Jose, CA. An evaluation of sedge meadow restoration strategies intended to limit *Phalaris arundinacea* reinvasion by altering light and nitrogen availability. Basil Iannone and Dr. Susan M. Galatowitsch.

Presenter (2007). Department of Ecology, Evolution, and Behavior. University of Minnesota, Twin Cities Campus. Evaluation of resource-limiting strategies intended to facilitate sedge meadow restorations by preventing *Phalaris arundinacea* L. invasion.

## E. PRESENTATIONS (*Continued*)

Presenter (2007). University of Minnesota 5<sup>th</sup> Annual Invasion Biology Research Consortium (IRBC) Retreat. Tamarack Nature Center, White Bear Township, MN. Can Native Plants Outcompete *P. arundinacea* During the Establishment of Restored Sedge Meadow Communities by Reducing Limiting Resources? Basil Iannone and Dr. Susan M. Galatowitsch.

Presenter (2006). DePaul University, Chicago, IL. Soils and Restoration Ecology Conference. Can Native Plants Outcompete *P. arundinacea* During the Establishment of Restored Sedge Meadow Communities by Reducing Limiting Resources? Basil Iannone and Dr. Susan M. Galatowitsch.

Presenter (2005). Department of Ecology, Evolution, and Behavior. University of Minnesota, Twin Cities Campus. The Role of Cover Crop Diversity and Soil Nitrogen in the Competitive Outcomes Between *Phalaris arundinacea* L. and a Native Plant Community in Sedge Meadow Restorations. Basil Iannone and Dr. Susan M. Galatowitsch.

Presenter (1998-1999). Valley Forge National Historical Park, Valley Forge, Pennsylvania. Causes of Species Extinction and Future Consequences. Kristina Heister, supervisor.

## F. PUBLICATIONS

### *Refereed Publications:*

Iannone, B. V., III, S. M. Galatowitsch, and C. J. Rosen. 2008. Evaluation of resource-limiting strategies intended to prevent *Phalaris arundinacea* invasions in restored sedge meadows. *Ecoscience* **15**:508-518.

Iannone, B. V., III, and S. M. Galatowitsch. 2008. Altering light and soil N to limit *Phalaris arundinacea* reinvasion in sedge meadow restorations. *Restoration Ecology* **16**:689-701.

Iannone, B. V., III, C. J. Rosen, and S. M. Galatowitsch (2009). Soil nitrogen concentrations in a restored sedge meadow wetland as affected by the application of high C:N amendments. *Ecological Restoration* **27**:193-199.

### *Government Documents:*

Iannone, B. V., III, and S. M. Galatowitsch. 2008. *Wet Meadow Revegetation Following Invasive Plant Control*. Minnesota Department of Transportation (Mn/DOT) Research Service Division, St. Paul, Minnesota.

## **G. EDITORIAL RESPONSIBILITIES**

### ***Reviewer of Manuscripts for:***

Plant and Soil

## **H. PROFESSIONAL SOCIETIES**

The Ecological Society of America

The Society for Ecological Restoration

Association of Environmental Studies and Sciences