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Curriculum Vitae

**Basil V. Iannone III**

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## RESEARCH OVERVIEW

My research focuses on 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. The studies I conduct, therefore, lie at the interface of applied and basic ecology, as well as at the interface of community and ecosystem-level ecology. I attempt to treat the systems that I study holistically and therefore utilize non-reductionist techniques such as multivariate statistics and computational, agent-based models that allow for the detection of significant patterns among the many highly-interrelated factors that exist in ecological systems.

## EDUCATION

- 2007 – Present Ph.D. candidate. University of Illinois at Chicago, Dept. of Biological Sciences.  
*Dissertation*: Utilizing multiple approaches to understand the ecology and belowground consequences of *Rhamnus cathartica* L. (European buckthorn) invasion and management. *Advisors*: Dr. David H. Wise and Dr. Liam Heneghan (Dept. Environmental Science and Studies, DePaul University)
- 2007 M.S. Ecology, Evolution, and Behavior. University of Minnesota, Dept. of Ecology, Evolution. *Thesis*: Evaluation of resource-limiting strategies intended to facilitate sedge meadow restorations by preventing *Phalaris arundinacea* L. invasion.  
*Advisor*: Dr. Susan M. Galatowitsch
- 2001 – 2003 Pre-M.S. coursework. Colorado State University, Dept. of Fisheries and Wildlife Biology; and Front Range Community College, Science Dept., Fort Collins, CO.
- 1993 B.M. Music Performance. West Chester University, Dept. of Music.

## POSITIONS

- 2011 Teaching Assistant. *NATS 103, The Biological World*. Dept. of Biological Sciences, University of Illinois at Chicago.
- 2010 Teaching Assistant. *BIOS 331, General Ecology Lab*. Dept. of Biological Sciences, University of Illinois at Chicago.
- 2010 Research Assistant. Dept. of Biological Sciences, University of Illinois at Chicago. Developed an agent-based model to investigate the roles of reproductive age, fecundity, and canopy-gap dynamics in the rate at which invasive shrubs spread throughout woodlands. Dr. David H. Wise and Dr. Moira L. Zellner, advisors.
- 2009 – 2010 Teaching Assistant. *BIOS 230, Ecology and Evolution*. Dept. of Biological Sciences, University of Illinois at Chicago.

- 2006 – 2007 Teaching Assistant. *BIOL 1001, Evolutionary and Ecological Perspectives*. College of Biological Sciences, University of Minnesota.
- 2004 – 2006 Research Assistant. Dept. of Ecology, Evolution, and Behavior, University of Minnesota. Researched how prevent *Phalaris arundinacae* (reed canarygrass) invasions in restored wetlands by limiting light via native cover crops and nitrogen availability via soil carbon amendments. Dr. Susan M. Galatowitsch, advisor.
- 2002 & 2004 Biological Technician. U.S. Geological Survey, Center for Disease Control, and Colorado State University. Assisted in a study of rabies and parasite transmission, movement, and habitat use in urban big brown bats. Dr. Tom O'Shea, supervisor.
- 2003 Biological Technician. Dept. of Fish and Wildlife Resources, University of Idaho. Assisted in a study aimed at estimating the summer carrying capacity of a moose population. Jason Dungan and Dr. Gerald R. Wright, supervisor.
- 2002 – 2003 Work Study. Stream Ecology Lab, Colorado State University. Assisted in a study of the impacts of riparian disturbance and non-native fish on stream food webs and cross-habitat resource subsidies. Dr. Colden Baxter and Dr. Kurt Fausch, supervisors.
- 2001 Work Study. Colorado Cooperative Fish and Wildlife Research Unit, Colorado State University. Dr. Eric P. Bergersen, supervisor.
- 2000 & 2001 Biological Technician. Colorado Division of Wildlife. Assisted in an investigation of how past sagebrush removal affects movement, habitat preference, and population dynamics of greater sage grouse. Sherri Huwer and Dr. Tom Remington, supervisor.

## PUBLICATIONS

- Iannone, B. V., III, L. G. Umek, D. H. Wise, and L. Heneghan. (*In press*). A simple, safe, and effective sampling technique for investigating earthworm communities in woodland soils: implications for citizen science. *Natural Areas Journal*.
- 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.
- 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, and S. M. Galatowitsch. 2008. *Wet Meadow Revegetation Following Invasive Plant Control*. Minnesota Dept. of Transportation Research Service Division, St. Paul, MN.

**GRANTS, FELLOWSHIPS, AND SCHOLARSHIPS**

- 2011        Dean's Scholar Award. Awarded by the Graduate College of the University of Illinois at Chicago, Chicago, IL (\$20,000 stipend; \$11,000 tuition waiver).
- 2011        Pre-doctoral Research Fellowship. Institute for Environmental Science and Policy, University of Illinois at Chicago, Chicago, IL (\$10,000).
- 2011        Garden Club of America Zone VI Fellowship in Urban Forestry. Funded by the Casey Tree Endowment Fund, Washington, DC (\$4,000).
- 2011        J.E. Weaver Competitive Grant. Funded by the Nebraska Chapter of The Nature Conservancy, Aurora, NE (\$1,000).
- 2010        Elmer Hadley Award for Research in Ecology and Evolution. Administered through the Ecology and Evolution Group of the Dept. of Biological Sciences, University of Illinois at Chicago, Chicago, IL (\$900).
- 2007 - 2009    NSF IGERT Fellowship. Landscape, Ecological, and Anthropogenic Processes, University of Chicago, Chicago, IL (\$30,000 / yr for two yrs in stipend; \$8,000 in research funds; \$4,000 in travel funds).
- 2006        Ecology, Evolution, and Behavior Block Grant. Administered through the Dept. of Ecology, Evolution, and Behavior, University of Minnesota, St. Paul, MN (\$1,250).
- 2006        J.E. Weaver Competitive Grant. Administered through the Nebraska Chapter of The Nature Conservancy, Aurora, NE (\$1,000).
- 2006        Florence Rothman Fellowship. Administered through the College of Biological Sciences, University of Minnesota, Minneapolis, MN (\$1,000).
- 2005        Dayton-Wilkie Natural History Fund. Administered through the Bell Museum of Natural History, Minneapolis, MN (\$1,000).
- 2002        College of Natural Resources Scholarship. Administered through the College of Natural Resources, Colorado State University, Fort Collins, CO (\$1,200).
- 2002        Delano F. Scott Scholarship. Administered through the College of Natural Resources, Colorado State University, Fort Collins, CO (\$1,200).

**AWARDS FOR ACADEMIC ACHIEVEMENT**

- 2011        Award for Excellence in Research Mentorship. Awarded by the Dept. of Biological Sciences, University of Illinois at Chicago, Chicago, IL.
- 2011        Award for Best Student Presentation. 3<sup>rd</sup> Annual Midwest-Great Lakes Chapter of the Society for Ecological Restoration International meeting in Springfield, IL.

**PRESENTATIONS**

- Iannone, B. I., III. 2011. Invited Lecturer. Investigations of *Rhamnus cathartica* (European buckthorn) invasions and management. *BIOS 531, Introduction to Ecology and Evolution*. Dept. of Biological Sciences, University of Illinois at Chicago, Chicago, IL.
- Iannone, B. I., III. 2011. Interdisciplinary investigations of *Rhamnus cathartica* (European buckthorn) invasion. *The Institute for Environmental Science and Policy External Advisory Board Meeting*. University of Illinois at Chicago, Chicago, IL.
- Iannone, B. I., III. 2011. Using paired invaded-uninvaded points across the landscape to determine the belowground causes and consequences of *Rhamnus cathartica* L. (European buckthorn) invasions. *Dept. of Biological Sciences Ecology and Evolution Seminar Series*. University of Illinois at Chicago, Chicago, IL.
- Iannone, B. I., III, L. G. Umek, L. Heneghan, and D. H. Wise. 2011. How does amending soils with mulch after *Rhamnus cathartica* (European buckthorn) removal limit reinvasion? *3<sup>rd</sup> Annual Meeting of the Midwest-Great Lakes Society of Ecological Restoration Chapter*, University of Illinois-Springfield, Springfield, IL.
- Iannone, B. I., III, and S. M. Galatowitsch. 2007. An evaluation of sedge meadow restoration strategies intended to limit *Phalaris arundinacea* reinvasion by altering light and nitrogen availability. *Ecological Society of America and Society of Ecological Restoration Joint Meeting*, San Jose, CA.
- Iannone, B. I., III. 2007. Evaluation of resource-limiting strategies intended to facilitate sedge meadow restorations by prevent *Phalaris arundinacea* L. invasion. *Dept. of Ecology, Evolution, and Behavior Seminar*. University of Minnesota, St. Paul, MN.
- Iannone, B. I., III, and S. M. Galatowitsch. 2007. Can native plants outcompete *P. arundinacea* during the establishment of restored sedge meadow communities by reducing limiting resources? *University of Minnesota 5<sup>th</sup> Annual Invasion Biology Research Consortium (IRBC) Retreat*, White Bear Township, MN.
- Iannone, B. I., III, and S. M. Galatowitsch. 2006. Can native plants outcompete *P. arundinacea* during the establishment of restored sedge meadow communities by reducing limiting resources? *Soils and Restoration Ecology Conference*. DePaul University, Chicago, IL.
- Iannone, B. I., III, and S. M. Galatowitsch. 2005. 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. *Dept. of Ecology, Evolution, and Behavior Seminar*. University of Minnesota, St. Paul, MN.

## UNDERGRADUATE MENTORING

I have supervised and mentored 37 technicians and / or volunteer research assistants at the University of Illinois at Chicago, DePaul University, and the University of Minnesota. In addition, I have been the mentor for the following undergraduate thesis projects:

- 2010 – 2011 Dev Rijal. *Undergraduate Thesis*: Developing a protocol for analysis of soil nitrate and ammonium using microplate-based spectrophotometry
- 2009 – 2010 Lindsey Day. *Undergraduate Thesis*: Chicago area *Rhamnus cathartica* growth rates and their relation to historical climatic data

## SERVICE

- 2010 – 2011 Member of the Committee for Improving Student Health Care. University of Illinois at Chicago.
- 2009 Seminar Organizer. *Interdisciplinary Graduate Research*. Collaborative effort among students from the LEAP IGERT Doctoral Training Program, and the Depts. of Biological Sciences and Earth and Environmental Sciences at the University of Illinois at Chicago.
- 2005 – 2007 Incoming Graduate Student Mentor. Dept. of Ecology, Evolution and Behavior, University of Minnesota.
- 2005 – 2007 Student Academic Grievance Committee Representative. Dept. of Ecology, Evolution and Behavior, University of Minnesota.
- 2004 – 2005 Audio Visual Crew. Dept. of Ecology, Evolution and Behavior, University of Minnesota.
- 1999 – 2000 Volunteer. Colorado Division of Wildlife. Assisted in monitoring an introduced population of river otters and in winter roost counts of predatory birds.
- 1998 – 1999 Volunteer. Valley Forge National Historical Park. Acted as an interpreter at the park's nature center and assisted in studies of water quality and white-tail deer. Kristina Heister, supervisor.

**Reviewer of Manuscripts for:** *Applied Soil Ecology; Invasive Plant Science and Management; Journal of Botany; Plant and Soil*

## PROFESSIONAL SOCIETIES

The Ecological Society of America  
 The Society for Ecological Restoration International  
 Society for Conservation Biology

**REFERENCES**

**David H. Wise, Ph.D.** *Dissertation Advisor*  
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**Liam Heneghan, Ph.D.** *Dissertation Advisor*  
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**Moira L. Zellner, Ph.D.** *Academic Committee Member*  
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