BRETT J. GOODWIN

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1. EDUCATIONAL BACKGROUND

Ph.D. in landscape ecology/ecological modeling at Ottawa-Carleton Institute of Biology, Carleton University, Ottawa, ON, Canada. (Advisor: Dr. L. Fahrig)	2000
B.Arts.Sc. (honours) in biology, *summa cum laude*, at McMaster University, Hamilton, ON, Canada. (Advisor: Dr. J. Kolassa)	1993

2. PROFESSIONAL EXPERIENCE

Assistant Professor, Department of Biology, University of North Dakota, Grand Forks, ND, USA	2003–present
Visiting Scientist, Institute of Ecosystem Studies, Millbrook, NY, USA.	2003–present
Postdoctoral Research Associate, Institute of Ecosystem Studies, Millbrook, NY, USA.	2000–2002
College Professor (short-term contract), Department of Mathematics and Statistics, Okanagan University College, Kelowna, BC, Canada.	1999
College Professor (sabbatical replacement), Department of Biology, Okanagan University College, Kelowna, BC, Canada.	1998–1999
Sessional Lecturer (sabbatical replacement), Department of Biology, Carleton University, Ottawa, ON, Canada.	1998
Teaching Assistant, Department of Biology, Carleton University, Ottawa, ON, Canada.	1993–1998

3. COURSES TAUGHT

A. REGULAR ASSIGNMENTS

Course	Institute	Students	Semester
Bio 332 *General Ecology*	University of North Dakota	127	F 2007
Bio 332L *General Ecology Lab*	University of North Dakota	55	F 2007
Bio 332 *General Ecology*	University of North Dakota	21	Su 2006
Bio 571 *Advanced Biometry*	University of North Dakota	2	S 2007
Bio 332 *General Ecology*	University of North Dakota	126	F 2006
Bio 332L *General Ecology Lab*	University of North Dakota	64	F 2006
Bio 470 *Biometry*	University of North Dakota	42	S 2006
Bio 503 *SEM: Spatial Scaling in Ecology*	University of North Dakota	5	S 2006
IDS 399 *Why Societies Succeed or Fail*	University of North Dakota	10	S 2006
Bio 332 *General Ecology*	University of North Dakota	142	F 2005
Bio 332L *General Ecology Lab*	University of North Dakota	68	F 2005

Bio 571 *Advanced Biometry*	University of North Dakota	8	S 2005
Bio 503 *SEM: Landscape Ecology*	University of North Dakota	12	S 2005
Bio 332 *General Ecology*	University of North Dakota	117	F 2004
Bio 332L *General Ecology Lab*	University of North Dakota	65	F 2004
Bio 470 *Biometry*	University of North Dakota	51	S 2004
Bio 503/590 *Ecology and Evolution of Wildlife Diseases* (co-taught)	University of North Dakota	14	F 2003
Bio 332 *General Ecology*	University of North Dakota	60	S 2003
Biol 300 *Biometrics* (and lab)	Okanagan University College	36	F 1999
Stat 121 *Elementary Statistics* (and lab)	Okanagan University College	68	F 1999
Biol 121 *Biology for Science Majors II*	Okanagan University College	78	S 1999
Biol 213 *Invertebrate Biology*	Okanagan University College	12	S 1999
Biol 303 *Population Biology* (and seminar)	Okanagan University College	14	S 1999
Biol 111 *Biology for Science Majors I*	Okanagan University College	76	F 1998
Biol 357 *Introduction to Entomology* (and lab)	Okanagan University College	19	F 1998
61.364 *Analysis of Ecological Relationships*	Carleton University	40	S 1998

B. UNDERGRADUATE ADVISEES

Advised, Andrew Miller, BS student at UND in the EPSCoR AURA program, *Wildlife use of mitigation wetlands*	2007-present
Advised, Davey Cookman, BS student at UND in the McNair program, *Landscape ecology of orthopterans on prairie patches*	2006-present
Advised, Jared Glick, BS student at UND, *Assisting in turkey research*	2006
Advised, Rory Manke, BS student at UND in the EPSCoR AURA program, *Spatial distribution of goldenrod galls*	2006-present
Advised, Rob McCann, BS student at UND in the EPSCoR AURA program, *Kattydid movements in prairie vegetation*	2005-2006
Co-advised, Erin Guthrie, BS student in the REU program at IES, *Assessing the movement of late-instar gypsy moths,* Lymantria dispar *(l.), in a secondary oak forest.*	2004
Advised, Amber Basting, BS student at UND, *Container ecology*	2004
Advised, Ben Bauer, BS student in the REU program at IES, *The influence of tree species composition on gypsy moth distribution within a forested landscape*	2002
Advised, Andrew Forbes, BS student in the REU program at IES, *Risk and refugee in space: White-footed mouse interactions with gypsy moth pupae*	2002
Advised, Melinda Nickason, BS student in the REU program at IES, *Dispersal patterns of gypsy moth larvae* (Lymantria dispar)	2001

Co-advised, David Greenberg, BS student in the REU program at IES, *Effect of spatial distribution and alternative foods on risk of predation by* Peromyscus leucopus	2001
Co-advised, Nicole M. Paillé, BSc student honours project at OUC, *Chironomids as potential indicators of the effects of urbanization on Mill Creek, Kelowna, BC*	1998–1999

C. THESIS / DISSERTATION / GRADUATE PROJECTS DIRECTED

Committee chair, Sarah Fischer, M.S. student in the Biology Department at UND, *Landscape ecology of insects on prairie fragments*	2003–2006
Committee chair, Chad Parent, M.S. student in the Biology Department at UND, *Survival and habitat use of Eastern wild turkeys translocated into Northwestern Minnesota*	2005–present
Committee chair, Fawn Wasin Zi, M.S. student in the Biology Department at UND, *On-site mitigation wetlands in North Dakota*	2006–present
Committee chair (as of 2007), Margi Coyle, Ph.D. student in the Biology Department at UND, *Golden eagles in ND*	2006–present

D. GRADUATE COMMITTEE SERVICE

Committee member, Dan Ackerman, M.S. student in the Biology Department at UND, *Curlews in North Dakota*	2005–present
Committee member, Kristen Babcock, M.S. student in the Earth Systems Science and Policy Department at UND, *Carabidae at the Glacial Ridge National Wildlife Refuge*	2007-present
Committee member, Todd Becker, M.S. student in the Biology Department at UND, *Spade footed toads in North Dakota*	2003–2004
Committee member, Eric Bless, M.S. student in the Biology Department at UND, *Swimming ability of parasitized fish*	2004–present
Committee member, Christina Brewer, M.S. student in the Biology Department at UND, *Microfilaria and arboviruses in birds.* Dropped from committee before completion	2003–2005
Committee member, Abir Chatterjee, M.S. student in the Compter Science Department at UND, *Parallel processing and landscape simulations*	2004–present
Committee member, Glenda Cousins, Ph.D. student in the Educational Leadership Department at UND.	2007–present
Committee member, Inga Foster, M.S. student in the Earth Systems Science and Policy Department at UND, *Odonata at the Glacial Ridge National Wildlife Refuge*	2006–present
Committee member, Gabe Garman, M.S. student in the Biology Department at UND, *Rodent malaria: Quantitative analysis of sporozoite production and movement in mosquito salivary glands.* Also directed an independent study in experimental design.	2003–present
Committee member, Elizabeth Hagen, Ph.D. student in the Criminal Justice Department at UND, *Spatial patterns of crime during the 1997 flood.*	2007–present
Committee member, Kyna Hoage, M.S. student in the Biology Department at UND, *Regional frog abundance*	2006–present

Committee member, John Leonhart, Ph.D. student in the Biology Department at UND, *Climate change and land use effects on small mammal communities in a Northern Great Plains landscape*	2004–present
Committee member, Thad Manuwal, M.S. student in the Biology Department at UND, *Mule deeer on Catalina island*	2005–present
Committee member, James J. Maskey Jr., Ph.D. student in the Biology Department at UND, *Moose movements, habitat use and parasitic diseases in white-tailed deer and moose in the northern Great Plains*	2003–present
Committee member, Kerry Olson, M.S. student (non-thesis) in the Biology Department at UND, *Neotropical migrants on prairie fragments*	2004–present
Committee member, Shree Poudel, M.S. student in the Biology Department at UND, *Rodent malaria.*	2004–2006
Committee member, Dustin Solberg, M.S. student (non-thesis) in the Biology Department at UND, *Ecological journalism about the prairie cotteau region.*	2004–2006
Committee member, Anna Springsteen, M.S. student in the Earth Systems Science and Policy Department at UND, *Above- and below-ground carbon and nitrogen pools in shrub encroachment.*	2006–present
Committee member, Tina Squire, Ph.D. student in the Biology Department at UND, *Large-scale population genetics patterns in wood frogs,* Rana sylvatica	2003–present

E. TEACHING TRAINING

Bush Teaching Scholars New Faculty Teaching Seminar, workshop at *UND, Grand Forks, ND.*	2004
An Introduction to Undergraduate Student Active Learning in Ecology, workshop at *Ecological Society of America 86th Annual Meeting, Madison, WI.*	2001
Seminar in University Teaching 29.595, graduate course at *Carleton University, Ottawa, ON.*	1998
Preparing to Teach – A Job Skills Workshop for Graduate Students, workshop at *Ecological Society of America 81st Annual Meeting, Providence, RI.*	1996

F. OTHER TEACHING RELATED ACCOMPLISHMENTS

Gave a guest lecture in Dr. Tkach's Bio 490: Disease Biology	2007
An evening with Faculty 'stars' – faculty members identified by a UND Presidential Scholar "whose class they particularly enjoyed, someone they found really creative or a good teacher, or someone they think would have important insights to share".	2007
Gave a guest lecture in Dr. Rundquist's Geog 421: Biogeography	2004
Helped lead an Office of Instructional Development box lunch discussion on "Engaging Students in Large Classes"	2004
Applied for and received OID – Summer Instructional Development Professorship, *Developing simulation models for lectures and student assignments in Bio 332 General Ecology* ($3,000)	2005
Participant in the Bush Teaching Scholars New Faculty Teaching Seminar, UND	2004

4. INSTITUTIONAL SERVICE

A. UNIVERSITY

Senate Faculty Instructional Development Committee, UND	2007-2010
Co-leader of the Bush Teaching Scholars Seminar, UND	2006–2007
Co-leader of the Bush Teaching Scholars New Faculty Teaching Seminar, UND	2004–2005

B. COLLEGE

Member of Elections Committee, Arts & Science, UND	2004–2007

C. DEPARTMENT

Interim Graduate Director, Biology Department, UND	2007–2008
Member of Quantitative Wildlife Biologist Search Committee, Biology Department, UND	2006–2007
Member of Academic Programs and Student Awards Committee, Biology Department, UND	2005–2008
Member of Infectious Disease Search Committee, Biology Department, UND	2003–2004
Member of Field Station Committee, Biology Department, UND	2003–2005
Academic advisor for Biology undergraduates (surnames I-K), UND	2003–present

D. PROFESSIONAL SERVICE

Member of editorial board for *Landscape Ecology*, managed 16 manuscripts	2005–present
Ad hoc reviewer for journals: *Acta Theriologica*, *BioScience* (1 ms, 2 ms declined), *American Naturalist* (declined), *Conservation Biology* (1 ms declined), *Conservation Ecology*, *Ecological Applications* (2 ms), *Ecological Modelling*, *Ecología Austral*, *Ecology* (4 ms), *Ecology Letters*, *Environmental Management*, *Global Ecology and Biogeography*, *Journal of Animal Ecology* (1 ms, 1 ms declined), *Landscape Ecology* (8 ms, 3 ms declined), *Oecologia*, *OIKOS* (1 ms, 1 ms declined), *Proceedings of the Royal Society B*, *Remote Sensing of the Environment* (1 ms declined)	1997–present
Ad hoc reviewer for edited volumes: 1 book chapter in *A Changing World: Challenges for Landscape Research* (Kienast et al. eds.), 1 book chapter in *Models in Ecosystem Science* (Canham et al. eds.)	2002–present
Ad hoc reviewer for text books: Smith's *Elements of Ecology 5th ed.*, Smith's *Elements of Ecology 6th ed.* (5 chapters, WWW components), text proposal for *Visualizing Ecology Series*, manuscript for Whitlock and Schluter *The Analysis of Biological Data* (5 chapters)	2004–present
Ad hoc reviewer for granting agencies: NSF (4 proposals), NIH (1 proposal)	2004–present
NSF panel review, reviewed 18 proposals	2006

Judged graduate student presentations at *Ecological Society of America Annual Meetings*	2003–2005

E. COMMUNITY SERVICE

Member of the board, Dakota Science Center	2006–2009
Presentation on insects to about 20 children from local home-schooling organization	2004
Provided scientific advice for a brochure regarding hedgerows for the Dutchess Land Conservancy, NY	2003
Judged posters for the University Colleges of BC Poster Day, Okanagan University College, Kelowna.	1999
Judged science fair projects for the Glebe Collegiate Institute Secondary School, Ottawa.	1998
One of 10 professionals presenting landscape ecology principles to the Government of Ontario's Great Lakes-St.Lawrence Region "Lands for Life" Roundtable.	1997
One of 11 co-signers of a letter to the Chair of the Standing Committee on Environment and Sustainable Development, critiquing the science behind the proposed Canadian Endangered Species Legislation (Bill C-65).	1997
Guest lecturer for Earth Day assembly at Ridgemont Secondary School, Ottawa.	1995

5. PUBLICATIONS

Undergraduate collaborators are indicated by a [u] and graduate collaborators are indicated by a [g].

A. SUBMITTED MANUSCRIPTS

Olimb, S.K.[g] & **B.J. Goodwin**. 200x. Model selection in landscape ecology: Misuse in terminology? *Landscape Ecology* (Submitted September 2007).

Olimb, S.K.[g], B.C Rundquist & **B.J. Goodwin**. 200x. Multi-scale analysis of landscapes surrounding prairie in Minnesota and North Dakota. *Prairie Naturalist* (Submitted July 2007).

Schauber, E.M., Connors, M.J.[g], **B.J. Goodwin**, C.G. Jones & R.S. Ostfeld. 200x. Quantifying a dynamic risk landscape: heterogeneous predator activity and implications for prey persistence. *Ecology* (Submitted June 2007).

B. PEER-REVIEWED PAPERS

Schauber, E.M., **B.J. Goodwin**, C.G. Jones & R.S. Ostfeld. 2007. Spatial selection and inheritance: Applying evolutionary concepts to population dynamics in heterogeneous space. *Ecology* 88(5):1112-1118.
[Chosen as a "must read" paper on Faculty 1000: Patsy Haccou: Faculty of 1000 Biology, 11 Jun 2007 http://www.f1000biology.com/article/id/1087078/evaluation]

Waller, L.A., **B.J. Goodwin**, M.L. Wilson, R.S. Ostfeld, S.L. Marshall & N.B. Hayes. 2007. Exploring spatiotemporal patterns in reported county level incidence and reporting of Lyme disease in the Northeastern United States, 1992-2000. *Environmental and Ecological Statistics* 14(1):83-100.

Goodwin, B.J., C.G. Jones, E.M. Schauber & R.S. Ostfeld. 2005. Limited dispersal and heterogeneous predation risk synergistically enhance persistence of rare prey. *Ecology* 86(12):3139-3148.

Connors, M.J.[g], E.M. Schauber, A.A. Forbes[u], C.G. Jones, **B.J. Goodwin** & R.S. Ostfeld. 2005. Using track plates to quantify predation risk at small spatial scales. *Journal of Mammalogy* 86(5):991-996.

Burns C.E., **B.J. Goodwin**, & R.S. Ostfeld. 2005. A prescription for longer-life? Bot-fly infection in the white-footed mouse. *Ecology* 86(3):753-761.

Goodwin, B.J. 2003. Is landscape connectivity a dependent or independent variable? *Landscape Ecology* 18(7):687-699.
[One of the top 5 most viewed papers on the *Landscape Ecology* web site in June 2004].

Goodwin, B.J. & L. Fahrig. 2002. How does landscape structure influence landscape connectivity? *Oikos* 99(3):552-570.

Goodwin, B.J. & L. Fahrig. 2002. Effect of landscape structure on the movement behaviour of a specialized goldenrod beetle, *Trirhabda borealis*. *Canadian Journal of Zoology* 80(1):24-35.

Goodwin, B.J., R.S. Ostfeld & E.M. Schauber. 2001. Spatiotemporal variation in a Lyme disease host and vector: Blacklegged ticks on white-footed mice. *Vector Borne and Zoonotic Diseases* 1(2):129-138.

Goodwin, B.J., D.J. Bender, T.A. Contreras, L. Fahrig & J.F. Wegner. 1999. Testing for habitat detection distances using orientation data. *Oikos* 84(1):160-163.

Goodwin, B.J., A.J. McAllister & L. Fahrig. 1999. Predicting invasiveness of plant species based on biological information. *Conservation Biology* 13(2):422-426.

B. NON PEER-REVIEWED PUBLICATIONS

Parent, C.J.[g], **B.J. Goodwin** & R.O. Kimmel. 200x. Ecology of Eastern wild turkeys transplanted to Northwestern Minnesota, USA. In P.J. Wingate, R.O. Kimmel, J.S. Lawrence & M.S. Lenarz (eds.), *Summaries of Wildlife Research Findings 2006*, Minnesota Department of Natural Resources, St. Paul, MN. (In press).

Goetz, S.L., **B.J. Goodwin** & C.J. Parent[g]. 2006. Survival and habitat use of Eastern wild turkeys transplanted to Northwestern Minnesota. In P.J. Wingate, R.O. Kimmel, J.S. Lawrence & M.S. Lenarz (eds.), *Summaries of Wildlife Research Findings 2005*, Minnesota Department of Natural Resources, St. Paul, MN., pp. 165-168

Goodwin, B.J. & L. Fahrig. 1998. Spatial scaling and animal population dynamics. In D.L. Peterson & V.T. Parker (eds.), *Ecological Scale: Theory and Applications*. New York: Columbia University Press, pp. 193-206.

Contreras, T.A., D. Bender, L. Fahrig, **B. Goodwin**, K. Henein, J. Langlois, S.E. Pope, J. Wegner & K. Westerberg. 1998. Review of D.R. McCullough (ed.), 1996, *Metapopulations and Wildlife Conservation*. *Journal of Wildlife Management* 62:426-427.

Goodwin, B.J., D.J. Bender, T.A. Contreras, L. Fahrig, S.E. Pope & J. Wegner. 1996. Review of: D. Ehrenfeld (ed.), 1995, *Readings from Conservation Biology*. *Écoscience* 3(4):516-517.

6. PROFESSIONAL PRESENTATIONS

Undergraduate collaborators are indicated by a [u] and graduate collaborators are indicated by a [g].

A. NATIONAL / INTERNATIONAL

INVITED

Goodwin, B.J. Aug. 2005. Using simulation models to assess different connectivity metrics in heterogeneous landscapes. *Ecological Society of America 90th Annual Meeting, Montreal, PQ.*

Goodwin, B.J., Aug. 2004. Landscape connectivity: The interaction of movement behavior with landscape structure. *Ecological Society of America 89th Annual Meeting, Portland, OR.*

Goodwin, B.J. Aug. 2004. Towards the integration of ideas, methods, and approaches in landscape connectivity. Panelist. *Ecological Society of America 89th Annual Meeting, Portland, OR.*

Waller, L.A., **B.J. Goodwin**, M.L. Wilson & R.S. Ostfeld. Jun. 2004. Exploring spatiotemporal patterns in Lyme disease incidence and reporting, 1990-2000. *Graybill Conference 2004, Fort Collins, CO.*

CONTRIBUTED

Goodwin, B.J. Jul. 2007. The importance of movement behavior in setting landscape connectivity. *International Association for Landscape Ecology 7th World Congress, Waginigen, NETHERLANDS.*

Fischer, S.[g] **& B.J. Goodwin.** Mar. 2006. The impact of habitat fragmentation and the surrounding landscape on insect communities in prairie patches. *2006 US-IALE Symposium, San Diego, CA.*

Goodwin, B.J. Mar. 2006. Relative roles of landscape structure and movement behavior in setting landscape connectivity. *2006 US-IALE Symposium, San Diego, CA.*

Schuaber, E.M., M.J. Connors[g], **B.J. Goodwin**, C.G. Jones & R.S. Ostfeld. Sep. 2005. Reducing predator impact by manipulating the activity of foragers: a field test. *The Wildlife Society 12th Annual Conference, Madison, WI.*

Connors, M.J.[g], E.M. Schauber, **B.J. Goodwin**, R.S. Ostfeld & C.G. Jones. Aug. 2005. Spatial and temporal scale of heterogeneity in risk of predation on gypsy moth pupae by white-footed mice. *Ecological Society of America 90th Annual Meeting, Montreal, PQ.*

Guthrie, E.[u], **B.J. Goodwin** & C.G. Jones. Aug. 2005. Of moths and movement: Assessing the movement of late-instar gypsy moths, *Lymantria dispar*, in a secondary oak forest. *Ecological Society of America 90th Annual Meeting, Montreal, PQ.*

Connors, M.J.[g], E.M. Schauber, C.G. Jones, **B.J. Goodwin** & R.S. Ostfeld. Jun. 2005. Spatial and temporal heterogeneity in small mammal activity and risk to prey. *85th Annual Meeting of the American Society of Mammalogists, Springfield, MO.*

Connors, M.J.[g], E.M. Schauber, C.G. Jones, **B.J. Goodwin** & R.S. Ostfeld. Dec. 2004. Quantifying spatial and temporal heterogeneity in predator activity and predation risk. *65th Annual Midwest Fish and Wildlife Conference, Indianapolis, IN.*

Connors, M.J.[g], E.M. Schauber, **B.J. Goodwin**, R.S. Ostfeld & C.G. Jones. Aug. 2004. Quantifying the relationship between spatiotemporal heterogeneity in predator activity and risk to prey. *Ecological Society of America 89th Annual Meeting, Portland, OR.*

Schauber, E.M., **B.J. Goodwin**, R.S. Ostfeld, M.J. Connors[g] & C.G. Jones. Aug. 2004. Location as phenotype: The "natural selection" of position and spatial population dynamics. *Ecological Society of America 89th Annual Meeting, Portland, OR.*

Goodwin, B.J., C.G. Jones & E.M. Schauber. Sep. 2001. Why generalist predators do not drive gypsy moth (*Lymantria dispar*) populations extinct locally: The role of space and dispersal. *Dynamics of Forest Insect Populations: A joint meeting of the International Union of Forest Research Organizations and the Royal Entomological Society, University of Aberdeen, Aberdeen, Scotland.*

Goodwin, B.J., C.G. Jones & E.M. Schauber. Aug. 2001. Moth persistence in enemy-occupied space: The interaction between prey dispersal and spatially heterogeneous predation risk. *Ecological Society of America 86th Annual Meeting, Madison, WI.*

Goodwin, B.J., C.G. Jones & E.M. Schauber. May 2001. Population persistence in enemy-occupied territory: Modeling the interaction between prey dispersal and spatially heterogeneous predation risk. *Cary Conference IX: Understanding Ecosystems: The Role of Quantitative Models in Observation, Synthesis, and Prediction, Millbrook, NY.*

Goodwin, B.J. Mar. 2000. The role of edge crossing behavior in landscape connectivity. *Structure and Function of Boundaries in Ecological Mosaics: A Workshop on the Status and Opportunities for Integrated Research, Millbrook, NY.*

Goodwin, B.J. & C.G. Jones. Mar. 2000. How functional boundaries prevent extinction: When can gypsy moth (*Lymantria dispar*) dispersal allow population persistence under mouse predation? *Structure and Function of Boundaries in Ecological Mosaics: A Workshop on the Status and Opportunities for Integrated Research, Millbrook, NY.*

Goodwin, B.J. & L. Fahrig. Aug. 2000. Different metrics of connectivity respond differently to landscape structure. *Ecological Society of America 85th Annual Meeting, Snowbird, UT.*

Goodwin, B.J. & L. Fahrig. Jul. 1999. The relative importance of habitat and matrix elements on landscape connectivity. *International Association for Landscape Ecology 5th World Congress, Snowmass, CO.*

Goodwin, B.J. & L. Fahrig. Aug. 1998. Landscape structure and movement: Simulation and empirical approaches. *Ecological Society of America 83rd Annual Meeting, Baltimore, MD.*

Goodwin, B.J. & L. Fahrig. Aug. 1997. How does landscape structure influence movement? Combining empirical and simulation approaches. *Ecological Society of America 82nd Annual Meeting, Albuquerque, NM.*

Goodwin, B.J., G.D.P. Clarke & L. Fahrig. Aug. 1996. The influence of spatial scale on population dynamics. *Ecological Society of America 81st Annual Meeting, Providence, RI.*

Goodwin, B.J. & L. Fahrig. Aug. 1995. The role of organism movement parameters and landscape structure in determining connectivity. *Ecological Society of America 80th Annual Meeting, Snowbird, UT.*

B. REGIONAL

INVITED

Goodwin, B.J. Mar. 2005. Insect movements between habitat patches - when does the matrix matter? *Entomological Society of America – North-Central Branch 60th Annual Meeting, West Lafayette, IN.*

B. STATE / LOCAL

INVITED

Goodwin, B.J. May 2007. Spatial ecology of prairie insect communities. *Biology Department, University of Waterloo, Waterloo, ON, CANADA.*

Goodwin, B.J. Apr. 2007. Surviving by staying close to home: Gypsy moths and white-footed mice in oak forests. *Department of Biology, University of North Dakota, Grand Forks, ND.*

Goodwin, B.J. Mar. 2007. Spatial ecology of prairie insect communities. *UMAC and Center for People and the Environment, University of North Dakota, Grand Forks, ND.*

Goodwin, B.J. Feb. 2007. Surviving by staying close to home: Gypsy moths and white-footed mice in oak forests. *Entomology Department, Purdue University, West Lafayette, IN.*

Parent, C.[g] & **B.J. Goodwin**. Feb. 2007. Ecology of Wild Turkeys translocated to northwestern Minnesota. *Crookston Chapter of the National Wild Turkey Federation annual banquet, Crookston, MN.*

Parent, C.[g] & **B.J. Goodwin**. Feb. 2007. Ecology of Wild Turkeys translocated to northwestern Minnesota. *Thief River Falls Chapter of the National Wild Turkey Federation annual banquet, Thief River Falls, MN.*

Parent, C.[g] & **B.J. Goodwin.** Feb. 2007. Ecology of Eastern Wild Turkeys translocated to Northwestern Minnesota. *2007 Minnesota Chapter of the Wildlife Society Annual Meeting, Alexandria, MN.*

Parent, C.[g] & **B.J. Goodwin**. Jan. 2007. Ecology of Wild Turkeys translocated to northwestern Minnesota. *Minnesota State Chapter of the National Wild Turkey Federation State Convention, Thief River Falls, MN.*

Parent, C.[g] & **B.J. Goodwin**. Jan. 2007. Ecology of Wild Turkeys translocated to northwestern Minnesota. *Biology Department, Bemidji State University, Bemidji, MN.*

Parent, C.[g] & **B.J. Goodwin**. Jan. 2007. Ecology of Wild Turkeys translocated to northwestern Minnesota. *University of Minnesota – Crookston Wildlife Society chapter, Crookston, MN.*

Parent, C.[g] & **B.J. Goodwin**. Dec. 2006. Ecology of Wild Turkeys translocated to northwestern Minnesota. *Minnesota DNR turkey committee meeting, Thief River Falls, MN.*

Goodwin, B.J. Oct. 2006. Landscape connectivity: The interaction between organism movement behavior and landscape structure. *Zoology Department, Southern Illinois University, Carbondale, IL.*

Parent, C.[g] & **B.J. Goodwin**. Jul. 2006. Ecology of translocated Eastern Wild Turkeys in northwestern Minnesota. *Minnesota DNR annual wild turkey committee meeting, Thief River Falls, MN.*

Goodwin, B.J. Mar. 2004. Approach for modeling parasite/disease dynamics on dynamic landscapes. *RNEST Biocomplexity Working Group Workshop, Grand Forks, ND.*

Goodwin, B.J. Mar. 2003. A landscape perspective on parasite and pathogen dynamics. *RNEST Biocomplexity Working Group Workshop, Grand Forks, ND.*

Goodwin, B.J. Feb. 2002. Goldenrod fields forever: Beetle movements in spatially heterogeneous landscapes. *University of North Dakota, Grand Forks, ND.*

Goodwin, B.J. Oct. 2000. The life cycle and population dynamics of gypsy moth. *Institute of Ecosystem Studies, Millbrook, NY.*

Goodwin, B.J. Jul. 2000. Landscape connectivity: The interaction between insect movements and landscape spatial structure. *Carleton University, Ottawa, ON.*

Goodwin, B.J. Aug. 1999. Insect movement: Empirical, statistical, and modeling approaches. *Institute of Ecosystem Studies, Millbrook, NY.*

Goodwin, B.J. Mar. 1999. The influence of landscape structure on beetle movements: Simulation and empirical approaches. *Okanagan University College, Kelowna, BC.*

CONTRIBUTED

Cookman III, D.[u] & **B.J. Goodwin**. Apr. 2007. Effects of prairie fragmentation on endemic Orthoptera. *4th Annual Northern Plains Biological Symposium, Grand Forks, ND.*

Springsteen, A.L.[g], Hanley, R., M. Liebig, **B.J. Goodwin**, J. Hendrickson & W. Loya. Apr. 2007. From grassland to woodland: A 42-year chronosequence in the Northern Great Plains. *4th Annual Northern Plains Biological Symposium, Grand Forks, ND.*

Parent, C.[g] & **B.J. Goodwin**. Apr. 2007. Ecology of Wild Turkeys translocated to Northwestern Minnesota. *4th Annual Northern Plains Biological Symposium, Grand Forks, ND.*

Cookman III, D.[u] & **B.J. Goodwin**. Feb. 2007. Effect of prairie fragmentation on endemic Orthoptera. *Graduate School 2007 Scholarly Forum, University of North Dakota, Grand Forks, ND.*

Springsteen, A.[g], M. Liebig, J. Hendrickson, **B.J. Goodwin,** & W. Loya. Feb. 2007. A 42-year chronosequence of woody plant expansion in Mandan, North Dakota. M.S. thesis preliminary results – Total soil Carbon and Nitrogen changes. *Graduate School 2007 Scholarly Forum, University of North Dakota, Grand Forks, ND.*

Fischer, S.[g] & **B.J. Goodwin.** Mar. 2005. The impact of habitat fragmentation and the surrounding landscape on insect communities in prairie patches. *2nd Annual Northern Plains Biological Symposium, Fargo, ND.*

Fischer, S.[g], B. Rundquist & **B.J. Goodwin**. Feb. 2005. The once vast prairie: Landscape and patch characteristics of fragments in the prairie parkland province. *UND Graduate School Scholarly Forum, Grand Forks, ND.*

Goodwin, B.J., C.G. Jones, E.M. Schauber & R.S. Ostfeld. Apr. 2003 Limited dispersal and heterogeneous predation risk synergistically enhance prey population persistence. *Cary Conference X: Understanding Ecosystems: Ecosystem Function in Heterogeneous Landscapes, Millbrook, NY.*

Goodwin, B.J. & A.J. McAllister. Apr. 1996. Characteristics of invading plant species: Common attributes or simply representative of species from the area of origin? *Ontario Ecology and Ethology Colloquium, Ottawa, ON.*

Goodwin, B.J. Apr 1995. The role of landscape structure in determining connectivity. *Ontario Ecology and Ethology Colloquium, Toronto, ON.*

7. GRANTS & CONTRACTS

A. PENDING

B.J. Goodwin. CAREER: Landscape connectivity and population dynamics. National Science Foundation, $529,873. Submitted July 2007.	Jan. 2008–Dec. 2012
B.J. Goodwin. COLLABORATIVE RESEARCH: Hot today, cold tomorrow? Variable persistence of generalist predator hot spots and the dynamics of their prey and parasites (non-lead proposal). National Science Foundation, $137,488. Submitted July 2007.	Jan. 2008–Dec. 2010

B. FUNDED

B.J. Goodwin. Wildlife use of mitigation wetlands in North Dakota. AURA ND EPSCoR, $7,400.	Jun. 2007–Dec. 2007
C.J. Parent, **B.J. Goodwin** & R. Kimmel. Landowner attitudes and concerns towards wild turkeys in Northwestern Minnesota, $4,995.	Apr. 2007–Jun. 2007
B.J. Goodwin. Survival and dispersal of goldenrod galling fly. AURA ND EPSCoR, $7,400.	Jun. 2006–Dec. 2006
B.J. Goodwin. Review of on-site wetland mitigation effectiveness in North Dakota. US Fish & Wildlife Service, $24,590	Jun. 2006–Oct. 2008
B.J. Goodwin. Movement, habitat use, and mortality of wild turkey released in Northeast Minnesota. Minnesota Department of Natural Resources, $58,000	Jan. 2006–Dec. 2007
B.J. Goodwin. Habitat restoration and management for Dakota Skipper on National Wildlife Refuge lands in North Dakota. US Fish & Wildlife Service, $15,000	May 2005–Aug. 2006
B.J. Goodwin. Insect movement behavior in heterogeneous prairie landscapes. AURA ND EPSCoR, $7,400.	Jun. 2005–Dec. 2005
B.J. Goodwin. Developing simulation models for lectures and student assignments in Bio 332 *General Ecology*. Summer Instructional Development Professorship – OID, UND, $3,000.	Jun. 2005
B.J. Goodwin. Modeling disease dynamics on dynamic landscapes. UND RNEST biocomplexity cluster, $5,875.	Jul. 2004–Apr. 2005
B.J. Goodwin. Insect communities on prairie patches: The impact of habitat fragmentation and the surrounding landscape. Faculty Research Seed Money Award, UND, $24,447.32.	May 2004–Dec. 2005
C.G. Jones, **B.J. Goodwin**, R.S. Ostfeld & E.M. Schauber. Moths and mice: The influence of dispersal distance and local predation risk on persistence of a sparse prey (DEB 0212215). National Science Foundation, $400,001.	Jul. 2002–Jun. 2005
C.G. Jones & **B.J. Goodwin**. Heterogeneous defoliation in forested landscape mosaics: A spatial analysis of causes. A renewal proposal to the IES Mellon-funded program: "Ecosystem Function in Mosaic Landscapes: Boundaries, Fluxes, and Transformations", $76,731.	Apr. 2002–Mar. 2003

C.G. Jones & **B.J. Goodwin**. Heterogeneous defoliation in forested landscape mosaics: A spatial analysis of causes. A renewal proposal to the IES Mellon-funded program: "Ecosystem Function in Mosaic Landscapes: Boundaries, Fluxes, and Transformations", $41,238.	Apr. 2001–Mar. 2002
C.G. Jones & **B.J. Goodwin**. Heterogeneous defoliation in forested landscape mosaics: A spatial analysis of causes. A proposal to the IES Mellon-funded program: "Ecosystem Function in Mosaic Landscapes: Boundaries, Fluxes, and Transformations", $33,964.	Apr. 2000–Mar. 2001

C. SUBMITTED BUT NOT FUNDED

B.J. Goodwin. COLLABORATIVE RESEARCH: Causes, characteristics, and consequences of spatiotemporal variation in hub-species abundance (non-lead proposal). National Science Foundation, $200,198. Submitted January 2007. Not funded but panel decision was to fund.	Jul. 2007–Jun. 2012
B.J. Goodwin. COLLABORATIVE RESEARCH: Causes, characteristics, and consequences of spatiotemporal variation in hub-species abundance (non-lead proposal). National Science Foundation, $209,027. Submitted July 2006.	Jan. 2007–Dec. 2012
B.J. Goodwin. Plant communities on prairie patches: The impact of habitat fragmentation and the surrounding landscape, New Faculty Scholar Award, UND SSAC, $4,984. Submitted February 7th, 2005	May. 2005–Apr. 2006
E.M. Schauber, **B.J. Goodwin** & C.K. Nielsen. Quantifying direct and indirect contact rates in white-tailed deer along urban-rural gradients. National Science Foundation and National Institute of Health, $1,700,823. Submitted February 13th, 2004	Aug. 2004–Jul. 2009
B.J. Goodwin. Insect movement behavior in heterogeneous prairie landscapes. National Science Foundation, $304,549. Submitted January 9th, 2004.	Sep. 2004–Aug. 2007
S. Detke, M. Niles, **B.J. Goodwin**, R. Sweitzer, J. Vaughan. Center of biomedical research excellence in zoonotic and vector-borne diseases. COBRE pre-proposal, $8,000,000.00. Submitted September 22nd, 2003	May 2004–Apr. 2008

8. PROFESSIONAL ASSOCIATIONS

Member of *Ecological Society of America*	1994–present
Member of *International Association for Landscape Ecology*	1999–present
Member of *Society for Conservation Biology*	1994–present
Member of the National Centre for Ecological Analysis and Synthesis (NCEAS) Working Group: *Spatial Ecology of Infectious Diseases*	2000–2002