

Adam T. Ford

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Education

- 04-Jan-10 **Ph.D. Candidate in Zoology**
Present Zoology Department
 University of British Columbia, Vancouver, BC
 Awards: NSERC Alexander Graham Bell CGS Doctorate Award,
 BRITE Travel Award, NSERC Michael Smith Foreign Studies Award, Izaak
 Walton Killam Memorial Doctoral Scholarship
 Research Focus: Animal movement, community ecology, Kenya, mammals
- 01-Sep-04 **M.Sc. in Biology**
30-Apr-06 Geomatics and Landscape Ecology Research Lab
 Department of Biology
 Carleton University, Ottawa, ON
 Awards: NSERC PGS Masters, Faculty and Departmental scholarships
 Research Focus: Road ecology, landscape ecology, small mammal movement
- 01-Jan-00 **B.Sc. Honours with Distinction in Geography**
30-Apr-02 Geography Department
 University of Victoria, Victoria, BC
 Awards: Departmental and Dean's scholarship
 Research Focus: Private land conservation, chiropterans, landowner contact
- 01-Sep-97 **Diploma (Honours) in Renewable Resource Management**
30-Apr-99 Department of Environmental Science
 Lethbridge Community College, Lethbridge, AB

Publications, Manuscript Reviews, Reports and Presentations

PUBLISHED MANUSCRIPTS AND PEER-REVIEWED BOOK CHAPTERS:

- Ford AT**, Clevenger AP, Huisjer M, & Dobb A. 2011 "Planning and prioritization strategies for phased highway mitigation using wildlife-vehicle collision data." Wildlife Biology, 17: 253 - 265
- Ford AT**, Clevenger AP. 2010 "Validity of the prey-trap hypothesis for carnivore-ungulate interactions at wildlife-crossing structures." Conservation Biology 24 (6): 1679-1685
- Ford AT**, Clevenger AP, & Rettie K. 2010 "Banff Wildlife Crossings Project, Trans-Canada Highway, Alberta – A public-private partnership." Chapter 7 in: Jon P. Beckmann, Tony Clevenger, Marcel Huisjer, and Jodi Hilty (eds.) Safe Passages: Highways, Wildlife and Habitat Connectivity. Island Press, Washington DC.

- Clevenger AP & **Ford AT**. 2010 “Terrestrial Mitigation – Crossing structures, fencing and other highway design considerations.” Chapter 2 *in*: Jon P. Beckmann, Tony Clevenger, Marcel Huijser, and Jodi Hilty (eds.) Safe Passages: Highways, Wildlife and Habitat Connectivity. Island Press, Washington DC.
- Ford AT**, Clevenger AP, & Bennett A. 2009 “Comparison of motion-activated camera and trackpad methods of monitoring wildlife crossing structures on highways” Journal of Wildlife Management 73(7):1213–1222
- Ford, A.T.**, K. Rettie, A.P. Clevenger. 2009. Fostering biodiversity conservation through an international public-private partnership: mitigating the Trans-Canada Highway in Banff National Park, Alberta, Canada. International Journal of Biodiversity Science, Ecosystems Services & Management 5(4): 181 – 189
- Gunson K, Clevenger AP, **Ford AT**, Bissonette J, & Hardy A. 2009 “A comparison of data sets varying in spatial accuracy used to predict the occurrence of wildlife-vehicle collisions” Environmental Management. 44 : 268-277
- Bouchard J, **Ford AT**, Eigenbrod FE & Fahrig L. 2009. Behavioral responses of Northern Leopard Frogs (*Rana pipiens*) to roads and traffic: Implications for Population Persistence. Ecology and Society 14 (2): 23. [online] URL: <http://www.ecologyandsociety.org/vol14/iss2/art23/>
- Rettie K, Clevenger AP, & **Ford AT**. 2009 “Innovative approaches for managing conservation and use challenges in the national parks: An example from Canada.” Chapter 22: 396-415 in: Sage Handbook of Tourism Studies. Editors: T. Jamal and M. Robinson. Sage Publications Inc, Thousand Oaks, CA.
- Ford AT** & Fahrig L. 2008. “Movement patterns of eastern chipmunks (*Tamias striatus*) near roads.” Journal of Mammalogy 89 (2): 895-903
- Ford AT** & Fahrig L. 2007. “Diet and body size of North American mammal road mortalities.” Transportation Research Part D: Transport and Environment 12 (7): 498-505

JOURNAL EDITOR

1) Northeastern Naturalist (2011, Guest Editor)

JOURNAL REFEREE (year manuscript was reviewed, managing editor in parentheses):

- 1) Ecological Applications (2012, J Goheen)
- 2) Biological Conservation (2012, M Galetti)
- 3) Wildlife Biology (2012, AP Clevenger)
- 4) Serengeti: v5, chapter referee (2011, ARE Sinclair)
- 5) African Journal of Ecology (2011, S Hill)
- 6) Landscape Ecology (2011, J Jaeger)
- 7) Biological Conservation (2011, D Oro)
- 8) African Journal of Ecology (2011, S Hill)
- 9) Journal of Applied Ecology (2011, T Webb)
- 10) African Journal of Ecology (2011, S Hill)
- 11) African Journal of Ecology (2010, J Lejju)

- 12) Wildlife Society Bulletin (2010, C Nielsen)
- 13) Ecology (2010, F Smith)
- 14) Journal of Transport Geography (2010, K O'Connor)
- 15) Journal of Wildlife Management (2010, G Rolof)
- 16) Ecology and Society (2010, G Cumming)
- 18) Environmental Monitoring and Assessment (2010, J Elvir)
- 19) Journal of Wildlife Management (2010, K McKelvey)
- 20) Journal of Wildlife Management (2009, C Nielsen)
- 21) Ecology and Society (2009, L Fahrig)
- 22) Journal of Wildlife Management (2009, K McKelvey)
- 23) Journal of Wildlife Management (2009, D Euler)
- 24) Environmental Management (2009, L O'Hara)
- 25) Wildlife Biology (2008, AP Clevenger)
- 26) Environmental Management (2008, V Dale)
- 27) Biodiversity and Conservation (2008, D Hawksworth)
- 28) Ecology and Society (2008, J Jaeger)
- 29) Wildlife Biology (2007, AP Clevenger)
- 30) Journal of Ecological Engineering (2007, WJ Mitsch)
- 31) European Journal of Wildlife Research (2007, H Kierdorf)

SUBMITTED REPORTS AND THESES:

- Clevenger AP, **Ford AT** & Sawaya MA. 2009. Banff wildlife crossings project: Integrating science and education in restoring population connectivity across transportation corridors. Final report to Parks Canada Agency, Radium Hot Springs, British Columbia, Canada. 165pp.
- Clevenger AP, **Ford AT** & MacDougall S. 2008. Strategies Workshop on the Reduction of Animal-Vehicle Collisions on Alberta's Roadways Synthesis and Recommendations Final Report, December 2008. Submitted to Alberta Transportation.
- Clevenger AP, Wilson N & **Ford AT**. Identifying Ecological Improvement Projects for Jasper National Park and Mount Robson Provincial Park. Submitted to Kinder-Morgan Canada.
- Huijser MP, Paul KS, Oechsli L, Ament R, Clevenger AP & **Ford AT**. 2008. "Wildlife-Vehicle Collision and Crossing Mitigation Plan for Hwy 93S in Kootenay and Banff National Park and the Roads in and Around Radium Hot Springs." Western Transportation Institute, University of Montana. 259pp. Report to Parks Canada.
- Clevenger, AP, Dorsey BP, Reimer JA, & **Ford AT**. 2007. *Highway Mitigation Monitoring Project, Stewart Creek and Dead Man's Flats*. Final report (January 2004-January 2007). Alberta Sustainable Resources Development, Canmore, Alberta
- Ford AT**. 2007 "Nesting success of burrowing owls in natural burrows." Draft manuscript submitted to the Chair of the National Burrowing Owl Recovery Team. 15pp.
- Ford, AT**. et al. 2007. Bighorn Wildland Recreational Impact Monitoring Project: An Interim Research Summary 2004-2006. 76pp, Alberta Wilderness Association, Calgary, AB. March 23, 2007.

Ford, AT. 2007. Bighorn Wildland Recreational Impact Monitoring Project: Final Report. 52pp, Alberta Wilderness Association, Calgary, AB. Submitted to Hon. Ted Morton, Minister of Alberta Sustainable Resources Development, Government of Alberta. March 23, 2007.

Ford, AT. 2006 "The effects of traffic on road aversion in the eastern chipmunk (*Tamias striatus*)" M.Sc. Thesis, Carleton University, Ottawa, ON.

Ford, AT. 2004. "Participatory research models in the aquaculture sector of Malawi." Department of Aquaculture and Fisheries Sciences, Bunda College of Agriculture, University of Malawi, Lilongwe, Malawi. Internship Report. 18pp.

Kaunda, E & **Ford, AT.** 2004. "Options for culture-based *Tilapia* spp. fisheries in Malawi." Department of Aquaculture and Fisheries Sciences, Bunda College of Agriculture, University of Malawi, Lilongwe, Malawi. Internship Report. 10pp.

Ford, AT. 2002. "Private land bat habitat stewardship: A pilot study on the Saanich Peninsula." B.Sc. Honours Thesis, Department of Geography, University of Victoria, unpublished document. 100pp.

PRESENTATIONS AND CONFERENCES

PRESENTED:

Ford AT. 2010. Research update series, Oral Presentation, Mpala Research Center, Laikipia, Kenya.

Ford AT. 2010. "Conservation Biology Lecture", Oral presentation, April 8, 9th for Biol. 121, Introduction to Biology, University of British Columbia

Ford AT & Clevenger AP. 2009. Wildlife crossing structures as prey traps? Testing evidence for inter-specific associations. Poster presentation. International Conference on Ecology and Transportation (ICOET). September 13-17, 2009 Duluth, MN

Ford AT. 2008. "Wildlife habitat linkage assessments: methodological considerations" Oral presentation, Invited Speaker. Ontario Road Ecology Stewardship Symposium, Toronto Zoo, April 22-24, 2008 Toronto ON.

Ford AT, Wellicome T, Poulin T, & Todd D. "Nesting success in burrowing owls" Poster presentation at the 8th Prairie Conservation and Endangered Species Conference. March 3-7, 2007 Regina, SK

Smandych, L., Snaith T, **Ford AT**, Bray S, Olson C, & Unger H. 2004. Interdisciplinary Research and Management in Mountain Areas Conference. Banff, AB. "Monitoring the Impact of Recreational Activities for Long-term Management in the Bighorn Wildland, Alberta." Poster presentation.

Ford AT. "Bats in buildings: private land stewardship on southern Vancouver Island" Oral presentation The Western Division of the Canadian Association of Geographers Conference, March 17, 2002. Vancouver, BC.

Ford AT. "Bats in buildings: private land stewardship on southern Vancouver Island" Poster presentation at the North American Symposium on Bat Research, October 25-27, 2001, Victoria, BC.

ORGANIZED:

Under contract from Red Deer College, the inaugural 'Strategies to reduce wildlife-vehicle collisions in Alberta workshop' hosted by Alberta Ministry of Transportation, June 26-27 2008 Calgary AB.

As President of the Victoria Chapter of the Society for Conservation Biology, a Marine Protected Area Discussion Panel, March 23, 2002. University of Victoria, Victoria, BC. Five participants from a range of scientific, academic and both federal and provincial management backgrounds. Hosted by the chair the Ecological Restoration Program at the University of Victoria.

Awards

2012-14	-Izaak Walton Killam Memorial Doctoral Scholarship (\$27,500 + \$2000 for research)
2011	-NSERC CGS-D Michael Smith Foreign Studies Supplement (\$6000) -NSERC CREATE Training Program in Biodiversity Research (\$1000) -American Society of Mammalogists, Grants-in-Aid Award (\$1000)
2010-14	-Four-year Fellowship, University of British Columbia (0\$/2y; \$20,000/2y) - declined
2010-11	-NSERC CGS-D, University of British Columbia (\$35,000) -Faculty of Graduate Studies Tuition Award (\$2,732)
2005-06	-NSERC PGS Master's, Carleton University (\$17,300). -Department of Biology Scholarship, Carleton University (\$6462). -Ontario Graduate Scholarship (\$15,000) - declined
2004-05	-NSERC PGS Master's, Carleton University (\$17,300). -Department of Biology Scholarship, Carleton University (\$6462). -Dean of Graduate Studies Entrance Scholarship, Carleton University (\$5000).
2003	-Youth Challenge International/ Canadian International Development Agency Community Outreach Subsidy, YCI Project Vanuatu (\$500). -University of Victoria Alumni Association Travel Grant for Leadership project, YCI Project Vanuatu (\$300).
2002	-Deans List of Graduates (graduating in the top ten percent of class in the Faculty of Social Sciences), University of Victoria.
2001	-Ross Scholarship, University of Victoria (\$1200). -President's Scholarship, University of Victoria (\$150).
2000-02	-Multiple Recipient of Ross Funding, University of Victoria (\$50 each for undergraduate research support).

Employment and Relevant Experience

05-Jan-10	Teaching Assistant , Dept. of Biology, University of British Columbia, Vancouver, BC
30-Apr-10	-Biol 121 – Introduction to Biology
15-Apr-07	Research Associate , Banff Wildlife Crossings Project/ Western Transportation Institute,
31-Dec-09	Montana State University, Bozeman, MT, based in Banff, AB -Analysis, management, monitoring and communication of long-term road ecology and highway mitigation study. -Staff supervision, hiring, liaising with Parks Canada and Provincial partners. -Field work in mammal tracking, species occupancy surveys. -Manuscript preparation for peer-review journal submission, professional meeting attendance and presentation.

- 01-Jun-08
31-Jan-09 **Researcher, Independent Contractor**, Ministry of Infrastructure, Ministry of Transportation, Red Deer College, AB
-Assist in the organization and coordination of a workshop meeting between transportation engineer, ecology and wildlife specialists in Calgary, on June 26-27, 2008.
-Prepare a follow-up report to partner agencies on a summary and outcomes of the workshop with recommendations for future research objectives.
- 01-Oct-07
31-Jan-09 **Researcher, Independent Contractor**, Kinder-Morgan Ecological Legacy Fund, Jasper National Park, AB
-Facilitated a hierarchical, multi-criteria decision-making workshop to help identify important ecological issues and potential projects with local experts.
-Recommended the design and implementation of a long-term ecological improvement project for the region to be funded by a \$2-5 million endowment from Kinder-Morgan Canada
- 06-Sep-06
30-May-07 **Research Associate**, Canadian Wildlife Service, Edmonton, AB
-Analysis and reporting of burrowing owl nesting survival study.
- 15-Feb-07
30-May-07 **Conservation Specialist**, Alberta Wilderness Association, Calgary, AB
-Analysis and communication of a recreational impact monitoring study.
- 10-Aug-06
15-Aug-06 **Field Technician**, University of Alberta, field work in Waterton Lakes National Park
-Assisted with backcountry, alpine lake sampling as part of a PhD project.
- 01-May-06
31-Jul-06 **Field Technician**, University of Alberta/ CWS, field work in SE Alberta
-Field work in raptor nest monitoring, landowner contact, trapping and banding burrowing owls.
- 01-Sep-04
30-Apr-06 **Teaching Assistant**, Dept. of Biology, Carleton University, Ottawa, ON
-Graded assignments, led field trips and laboratory sessions.
-Intro I, Intro II, 2nd Year Ecology, 3rd Year Conservation Biology.
- 01-May-04
30-Aug-04 **Research and Outreach Coordinator**, Alberta Wilderness Association, Calgary, AB
-Assisted with the design and implementation of a recreational impact monitoring program.
- 05-Jan-04
30-Mar-04 **Extension Officer**, CIDA/ Bunda College of Agriculture, Lilongwe, Malawi
-Coordinated the aquaculture extension efforts for the College.
-Conducted research and needs assessment of rural fish farmers.
- 01-Nov-03
30-Nov-03 **Forest Surveyor**, private contractor, Radium Hot Springs, BC
-Mountain pine beetle probing contract for the BC Ministry of Forests.
- 01-May-03
30-Jun-03 **Volunteer**, Youth Challenge International Project Vanuatu, Tongoa Island, Vanuatu
-Leadership program with an emphasis on local community development.
-Worked on community-based water delivery/ dispute resolution system and a regional youth education forum.

- 1999-02 **Fishing Guide**, Brabant Lodge, Hay River, NT
 -Guided guests out of a wilderness, fly-in fishing lodge.
- 01-Apr-01 **Research Coordinator**, Western Canada Wilderness Committee, Victoria, BC
30-Oct-01 -Led volunteers on hikes into backcountry regions to survey endangered
 species in coastal rainforest areas of Vancouver Island.

Leadership, Community Development Experience and Travel

MENTORSHIP:

- Tobias Ochieng Otieno, Mammalogy Section Intern, National Museums of Kenya, Nairobi (2011)
- Thea Spelman, Geog 370, University of British Columbia, Term project (2010)
- Erin Latham, Geog 667: Advanced GIS Programming with ArcObjects, University of Calgary, Term project (2009)

OTHER EXPERIENCES:

- 2011-current -6 month field work in Laikipia, Kenya
 -Conservation Committee member, American Society of Mammalogists
 -Daraja Day group leader for youth science education workshop, Kenya
- 2011 - Science Fair Judge, Calgary Board of Education, Calgary AB
 - Group leader, Outdoor and Experiential ed. Alice Jameson Girls Academy, Calgary AB
- 2010 - 3 month field work in Laikipia, Kenya
- 2009 - Bow Valley Regional Science Fair Judge, Banff AB
 - Presentation to Grade 7/9 Alice Jameson Girls Academy, Calgary AB
- 2004-08 - Spanish language lessons, 4weeks in Oaxaca State, Mexico.
 - Representative, Graduate Students Association, Carleton University, Ottawa, ON
 - Minor Hockey Coach, Bantam, ODMHA, Ottawa, ON
 - 3 month CIDA internship in Malawi, southern Africa
 - 1 month travel through Thailand, southeast Asia
- 2003 - Member, Central Rockies Ecosystem Subcommittee CPAWS, Calgary, AB
 - Volunteer, Bragg Creek Environmental Coalition, Bragg Creek, AB
 - 6 week leadership development project in Vanuatu, South Pacific
- 2001-02 - 5 weeks, Spanish language lessons and travel in Cuba
 - President of the Victoria Chapter of the Society for Conservation Biology, Victoria, BC
 - Team leader in the Terrestrial Ecosystem Mapping Project, University of Victoria, BC
 - Advised The Land Conservancy on their Bat Habitat Management Plan, Victoria, BC
 - Wetland Advisor, 'BOG HO!' Program, Edgemont Elementary School, Calgary AB.
 - Member, Environmental Education Committee, University of Victoria, Victoria, BC
- 1998-99 - Founder and Vice-President of Lethbridge Community College's Flyfisher's Club
- 1997-2004 - Volunteer and member of Trout Unlimited Canada, including electroshocking activities
 for Trout Unlimited's Bow River Fish Rescue

Safety, Training and Certification

- Radio telemetry, ungulate capture and handling
- Raptor trapping and banding
- Mammal tracking (snow, sand)
- Small mammal and ungulate trapping and handling
- Software experience: ArcGIS9.3, SPSS, MS ACCESS, NetLogo, Program MARK, R, Visual CE,

- WHIMIS training (2006)
- CSA approved Defensive Driving Certificate (2006)
- Firearms Safety Course (with valid firearm possession and acquisition license)
- Ontario Hunter Safety Education Course (2005)
- Off-highway vehicle operation, 4x4, driving in LHD and RHD vehicles
- Wilderness, Standard First Aid and CPR (2004)
- Spanish language training, Havana, Cuba (2002) and Oaxaca, Mexico (2007)

Things that are fun for me to do

- Standard stuff: photography, flyfishing, bird hunting and hockey
- Evolving stuff: learning to snowboard, rock climbing, speaking Spanish
- Weird stuff: barbequing with a charcoal mini-hibachi in the winter, homebrewing beer