

Raymond A. Saumure, Ph.D.

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## *Raymond A. Saumure*

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(702) 239-4762; (702) 407-8303

[RaymondSaumure.com](http://RaymondSaumure.com)

[insculpta@gmail.com](mailto:insculpta@gmail.com)

## *Education*

**McGill University**  
**Faculty of Agricultural and Environmental Sciences**  
**Department of Natural Resource Sciences**  
**Montréal, Québec, Canada**

**Ph.D.** Wildlife Biology (2004)

Dissertation: **Spatial Ecology and Conservation of the North American Wood Turtle (*Glyptemys insculpta*) in a Fragmented Agri-Forest Landscape.**

Publications: Saumure, R.A., R.D. Titman, and T.B. Herman. 2007. Effects of haying and agricultural practices on a declining species: the North American Wood Turtle, *Glyptemys insculpta*. *Biological Conservation* 135:581–591. [[PDF](#)]

Saumure, R.A., T.B. Herman, and R.D. Titman. 2010. Effects of patch size and habitat structure on the movements of *Glyptemys insculpta*. *Herpetological Conservation and Biology* 5:403–413. [[PDF](#)]

**M.Sc.** Wildlife Biology (1997)

Thesis: **Growth, Mutilation, and Age Structure of Two Populations of Wood Turtles (*Clemmys insculpta*) in Southern Québec.**

Publication: Saumure, R.A., and J.R. Bider. 1998. Impact of agricultural development on a population of Wood Turtles (*Clemmys insculpta*) in southern Québec, Canada. *Chelonian Conservation and Biology* 3:37–45. [[PDF](#)]

**University of Guelph**  
**College of Biological Science**  
**Department of Integrative Biology**  
**Guelph, Ontario, Canada**

**B.Sc.** Biology (1993)

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## *Professional Experience*

**Preserve Biologist &  
Head of Research Division**  
[The Springs Preserve](#)  
**Las Vegas Valley Water District**  
**Las Vegas, Nevada, USA**  
**January 2005 to Present**

- Participated in the successful opening of the \$250 million Las Vegas Springs Preserve.
- Assisted with acquisition of \$12 million Southern Nevada Public Lands Management Act (SNPLMA) grant. Currently assisting Engineering Division with the drafting and review of plans and request for proposals to add a hiking trail, restore historic railroad cottages, and restore water to the historic Las Vegas Creek.
- Acquisition and quarantine of all Living Collections animals from California and Arizona.
- Initiated, funded, coordinated, and published a multi-agency study on the genetic identity of the extinct Vegas Valley Leopard Frog. Study revealed that the only North American frog believed to have gone extinct in recent history is not extinct!
- Supervised seven staff members including Archaeologist, Registrar, Restoration Ecologist, Senior Zoologist, and three Zoologists. Also responsible for as many as eleven university-level scientific/technical interns and the occasional task-specific docents.
- Reviewed construction and exhibit blueprints for the LEED Platinum Visitor Center, worked through change work orders, and created punch list for Living Collection exhibits.
- Designed (i.e., layout, electrical, plumbing, HVAC, caging) and supervised the construction of a \$250,000 Animal Biosafety Level II quarantine facility.
- Redesigned outdoor lizard pit into three climate-controlled exhibits (\$200,000) and supervised the construction of all animal-related exhibits.
- Obtained grant and worked with NV Energy to install “raptor protectors” on a power line that bisects the Springs Preserve.
- Implemented Environmental Management System with goal of ISO 140001 certification; internal audit recently completed with only the most minor of issues raised. Wrote, reviewed and/or edited hundreds of documents required for certification, such as standard operating procedures and process flow charts.
- Designed a user interface for a Living Collections module for “[KE Emu](#)” archival software used by Research and Curation Divisions.
- Reviewed and copy edited hundreds of static interpretive panel texts for the Visitor Center, Desert Living Center, Desert Demonstration Gardens, and hiking trails.
- Reviewed numerous state-of-the-art educational films, animations, and video games.
- Compiled and implemented several habitat restoration plans in concert with Restoration Ecologist and Archaeologist for the Springs Preserve, a National Historic Site.
- Responsible for acquisition, reporting, and renewal of state and federal wildlife permits.
- Drafted job descriptions for and hired a Senior Zoologist, Zoologists, Registrar, and Archaeologist.
- Drafted and managed up to \$1.3 million Research Division annual budget.
- Conducted facility-wide training on the identification, natural history, and best practices when working on a site with Africanized bees, Bark Scorpions, Desert Recluse, Black Widows, etc.
- Coordinated with the Southern Nevada Health District and Las Vegas Animal Control on all public safety issues including monitoring of potential disease vectors (e.g., mosquitoes, feral/invasive species)

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## Senior Conservation Biologist

### [Shark Reef at Mandalay Bay](#)

**Mandalay Bay Resort and Casino &  
Vancouver Aquarium Marine Science Centre  
Las Vegas, Nevada, USA  
April 2000 to February 2003**

- Participated in the successful opening of a \$50 million for-profit aquarium managed by the Vancouver Aquarium and Marine Science Center.
- As a senior manager, reported to the Director of Shark Reef and advised him on all animal-related matters.
- Conducted field research on the Western Pond Turtle (*Actinemys marmorata*) with a colleague in Chico, California.
- Developed and published a new technique to capture and transport crocodylians in captivity.
- Advised the Curatorial staff on the biology and husbandry of 17 species of sharks, as well as all reptile species.
- Supervised four Aquarists assigned to the Husbandry Center quarantine facility.
- Designed and implemented an animal inventory database in Microsoft Access.
- Compiled a Procedures and Protocols Manual that encompassed everything from husbandry standards to an emergency response plan.
- Drafted and implemented a dangerous reptile security protocols for potential crocodylian emergencies. Included annual firearms training with .44 magnum bang stick.
- Implemented a PIT tagging program to aid in monitoring the health of all elasmobranchs, moray eels, and reptiles residing at the aquarium; not a typical practice in the aquarium world at the time.
- Successfully managed the Association of Zoos and Aquariums accreditation process, making Shark Reef the only AZA accredited facility in Nevada.
- Donated \$70,000 to worthy projects such as the Nature Conservancy's *in situ* Komodo Dragon research, and satellite tracking of Green Sea Turtles (*Chelonia mydas*) by the Caribbean Conservation Corporation.
- Managed a \$240,000 research budget.
- Simultaneously began drafting of Ph.D. dissertation.

## Animal Health Technician

### [Biodôme de Montréal](#)

**City of Montréal  
December 1997 to April 2000**

- Responsible for the husbandry of a collection of approximately 30 species of amphibians and reptiles, 13 species of mammals, and 40 species of birds residing in one of five mesocosms (i.e., Tropical Rainforest, Laurentian Forest, St. Lawrence Marine Ecosystem, North Pole, and South Pole).
- Designed and conducted a study on the population ecology of Giant Toads (*Bufo marinus*) inhabiting the Tropical Rainforest mesocosm.
- Produced a dichotomous turtle eggshells key for Québec freshwater turtles.
- Simultaneously completed the field research portion of my Ph.D. at McGill University.

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## **Educator**

### **Biodôme de Montréal**

**City of Montréal**

**October 1993 to December 1997**

- Used novel educational methods to engage and entertain the public, while explaining complex ecological processes within five large-scale mesocosms.
- Developed superior educational abilities while teaching 8 hours / day for four years.
- Worked with all age groups in settings ranging from impromptu discussions and classroom presentations to guided VIP and technical tours of the facility.
- Simultaneously pursued and completed my M.Sc. at McGill University.

## **Technician**

**Ontario Ministry of Natural Resources**

**Southern Region, Aylmer District Office**

**April to August 1992**

- Set up & monitored amphibian transects during the pilot year of amphibian monitoring in Canada.
- Coordinated the project and five students during supervisor's paternity leave.
- Initiated an independent mark-recapture study of five species of freshwater turtles on Lake Erie.

## **Visitor Services Coordinator**

**Carillon Provincial Park**

**Ontario Ministry of Natural Resources**

**April to September 1991**

- Supervised two employees and administered the entire summer education program, which included everything from scheduling to press releases.
- Gave daily bilingual presentations on animal ecology, biodiversity, and conservation; These included guided walking and canoe hikes, as well as amphitheatre presentations.

## *Publications*

### **Recent Publications**

Hekkala, E.R., **R.A. Saumure**, J.R. Jaeger, H.-W. Herrmann, M. Sredl, M. Culver, D. Bradford, D. Drabek, and M.J. Blum. 2011. Resurrecting an extinct species: Archival DNA, taxonomy, and conservation of the Vegas Valley Leopard Frog. *Conservation Genetics* DOI 10.1007/s10592-011-0229-6. [[PDF](#)]

**Saumure, R.A.**, T.B. Herman, and R.D. Titman. 2010. Effects of patch size and habitat structure on the movements of *Glyptemys insculpta*. *Herpetological Conservation and Biology* 5:403–413. [[PDF](#)]

**Saumure, R.A.** 2010. Herpetological Conservation and Biology: Metamorphosis. *Herpetological Conservation and Biology* 5:i. [[PDF](#)]

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- Saumure, R.A.** 2010. Rapport sur la situation de la Tortue Musquée (*Sternotherus odoratus*) au Québec. Ministère des Ressources naturelles et de la Faune du Québec, Faune Québec. [French] [\[PDF\]](#)
- Grogan, W.L., Jr., **R.A. Saumure**, J. Maceachern, L. Allen, and M.D. Pulsifer. 2009. *Glyptemys insculpta* (Wood Turtle). Ectoparasites. *Herpetological Review* 40:333–334. [\[PDF\]](#)
- Saumure, R.A.** 2009. Herpetological Conservation and Biology: Milestones. *Herpetological Conservation and Biology* 4:i–ii. [\[PDF\]](#)
- Saumure, R.A.** 2008. Book Review: Biology of Turtles. *Herpetological Bulletin* 106:42–44.
- Rhodin, A.G.J., P.C.H. Pritchard, P.P. van Dijk, **R.A. Saumure**, K.A. Buhlmann, and J.B. Iverson (Eds.). 2008. The Conservation Biology of Freshwater Turtles and Tortoises. *Chelonian Research Monographs* 5. [\[PDF\]](#)
- Walde, A.D., and **R.A. Saumure**. 2008. *Glyptemys insculpta* (Wood Turtle). Maximum Clutch Size. *Herpetological Review* 39:81–82. [\[PDF\]](#)
- Walde, A.D., P.J. Baker, and **R.A. Saumure**. 2008. *Glyptemys insculpta* (Wood Turtle). Hatchling Behavior. *Herpetological Review* 39:82. [\[PDF\]](#)
- Saumure, R.A.** 2007. Herpetological Conservation and Biology: A successful first year. *Herpetological Conservation and Biology* 2:i–iii. [\[PDF\]](#)
- Walde, A.D., J.R. Bider, D. Masse, **R.A. Saumure**, and R.D. Titman. 2007. Nesting ecology and hatching success of the Wood Turtle, *Glyptemys insculpta*, in Québec. *Herpetological Conservation and Biology* 2:49–60. [\[PDF\]](#)
- Saumure, R.A.**, R.D. Titman, and T.B. Herman. 2007. Effects of haying and agricultural practices on a declining species: the North American Wood Turtle, *Glyptemys insculpta*. *Biological Conservation* 135: 581–591. [\[PDF\]](#)
- Saumure, R.A.** 2007. *Actinemys marmorata*. Pp. 227 *In* Ecology, Conservation and Status of Reptiles in Canada. Seburn, C.N.L., and C.A. Bishop (Eds.). Society for the Study of Amphibians and Reptiles. *Herpetological Conservation* 2. [\[PDF\]](#)
- Saumure, R.A.**, A.D. Walde, and T.A. Wheeler. 2006. Nonpredatory fly larvae (*Delia platura*: Anthomyiidae) discovered in the nest of a Northern Map Turtle (*Graptemys geographica*). *Chelonian Conservation and Biology* 5:274–275. [\[PDF\]](#)
- Steen, D.A., M.J. Aresco, S.G. Beilke, B.W. Compton, E.P. Condon, C.K. Dodd, Jr., H. Forrester, J.W. Gibbons, J.L. Greene, G. Johnson, T.A. Langen, M.J. Oldham, D.N. Oxier, **R.A. Saumure**, F.W. Schueler, J. Sleeman, L.L. Smith, J.K. Tucker, and J.P. Gibbs. 2006. Relative vulnerability of female turtles to road mortality. *Animal Conservation* 9:269–273. [\[PDF\]](#)
- Bury, R.B., M.L. McCallum, D.J. Germano, **R.A. Saumure**, and S.E. Trauth. 2006. A revisit of a classic paper by Norm Scott on amphibian and reptile community ecology. *Herpetological Conservation and Biology* 1:133–134. [\[PDF\]](#)
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Bury, R.B., M.L. McCallum, S.E. Trauth, and **R.A. Saumure**. 2006. Dawning of Herpetological Conservation and Biology: A special welcome to your new journal. *Herpetological Conservation and Biology* 1:i-iii. [\[PDF\]](#)

Walde, A.D., and **R.A. Saumure**. 2006. *Apalone ferox* (Florida Softshell Turtle). Predation. *Herpetological Review* 37:77. [\[PDF\]](#)

### **Ph.D. Publications**

Plan de rétablissement de cinq espèces de tortues au Québec pour les années 2005 à 2010 : la tortue des bois (*Glyptemys insculpta*), la tortue géographique (*Graptemys geographica*), la tortue mouchetée (*Emydoidea blandingii*), la tortue musquée (*Sternotherus odoratus*) et la tortue ponctuée (*Clemmys guttata*). 2005. Ministère des Ressources naturelles et de la Faune, Québec. 57 pages. [French] [\[PDF\]](#)

**Saumure, R.A.**, B. Freiermuth, J. Jundt, L. Rowlett, and J. Jewell. 2002. A new technique for the safe capture and transport of crocodylians in captivity. *Herpetological Review* 33:294–296. [\[PDF\]](#)

**Saumure, R.A.** 2001. Kyphosis in a Musk Turtle (*Sternotherus odoratus*) from Ontario, Canada. *Chelonian Conservation and Biology* 4:159. [\[PDF\]](#)

**Saumure, R.A.**, and J.C. Beane. 2001. *Clemmys muhlenbergii* (Bog Turtle). Ectoparasites. *Herpetological Review* 32:38. [\[PDF\]](#)

**Saumure, R.A.** 2001. Limb mutilations in Snapping Turtles, *Chelydra serpentina*. *Canadian Field-Naturalist* 115:182–184. [\[PDF\]](#)

**Saumure, R.A.**, and J.S. Doody. 2000. *Carettochelys insculpta* (Pig-nosed Turtle). Ectoparasites. *Herpetological Review* 31:237–238. [\[PDF\]](#)

**Saumure, R.A.**, and J.R. Bider. 1998. Impact of agricultural development on a population of Wood Turtles (*Clemmys insculpta*) in southern Québec, Canada. *Chelonian Conservation and Biology* 3:37–45. [\[PDF\]](#)

**Saumure, R.A.**, and J.S. Doody. 1998. *Amphiuma tridactylum* (Three-toed Amphiuma). Ectoparasites. *Herpetological Review* 29:163. [\[PDF\]](#)

**Saumure, R.A.**, and S.L. Carter. 1998. *Clemmys muhlenbergii* (Bog Turtle). Parasites. *Herpetological Review* 29:98. [\[PDF\]](#)

**Saumure, R.A.**, and D. Rodrigue. 1998. Albino Snapping Turtle (*Chelydra serpentina*). *Canadian Field-Naturalist* 112:344. [\[PDF\]](#)

Graham, T.E., **R.A. Saumure**, and B. Ericson. 1997. Map Turtle winter leech loads. *Journal of Parasitology* 83:1185–1186. [\[PDF\]](#)

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## M.Sc. Publications

- Saumure, R.A.** 1997. Thesis abstracts in Canadian Herpetology: Growth, mutilation, and age structure of two populations of Wood Turtles (*Clemmys insculpta*) in southern Québec. Bulletin of the Canadian Association of Herpetologists 11:18–19.
- Saumure, R.A.,** and J.R. Bider. 1996. *Clemmys insculpta* (Wood Turtle). Ectoparasites. Herpetological Review 27:197–198. [\[PDF\]](#)
- Saumure, R.A.** 1996. No fish for frogs. Canadian Wildlife / Biosphère Vol. 2. July/August Issue, p. 5.
- Saumure, R.A.** 1996. Geographic Distribution: *Chelydra serpentina serpentina* (Common Snapping Turtle). Herpetological Review 27:150. [\[PDF\]](#)
- Colt, L.C. Jr., **R.A. Saumure,** and S. Baskinger. 1995. First record of the algal genus *Basicladia* (Chlorophyta, Cladophorales) in Canada. Canadian Field-Naturalist 109:454–455. [\[PDF\]](#)
- Saumure, R.A.** 1995. Frog Alert. Canadian Wildlife / Biosphère Vol. 1. March/April Issue, p. 39.
- Saumure, R.A.,** and P.J. Livingston. 1994. *Graptemys geographica* (Common Map Turtle). Parasites. Herpetological Review 25:121. [\[PDF\]](#)
- Saumure, R.A.** 1993. Long Point turtle news. Bulletin of the Canadian Association of Herpetologists 7: 22–23.

## B.Sc. Publications

- Saumure, R.A.** 1993. *Rana clamitans* (Green Frog). Albinism. Herpetological Review 24:31. [\[PDF\]](#)
- Saumure, R.A.** 1993. *Rana catesbeiana* (Bullfrog). Predation. Herpetological Review 24:30. [\[PDF\]](#)
- Saumure, R.A.** 1992. *Clemmys insculpta* (Wood Turtle). Size. Herpetological Review 23:116. [\[PDF\]](#)
- Saumure, R.A.** 1990. *Emydoidea blandingi* (Blanding's Turtle). Parasites. Herpetological Review 21:60. [\[PDF\]](#)

## High School Publication

- Saumure, R.A.** 1985. Wood Turtle (*Clemmys insculpta*). Chorus: Newsletter of the Ottawa Amphibian and Reptile Association 2(6):3–4. [\[PDF\]](#)

## *Publications* (In preparation)

- Holt, S.M., and **R.A. Saumure.** *Emydoidea blandingii*. In The Reptile Fauna of Canada (Accepted 9-May-2009).
- Saumure, R.A.** *Actinemys marmorata*. In The Reptile Fauna of Canada (Accepted 3-May-2009).

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Schulte-Hostedde, B.E., and **R.A. Saumure**. *Graptemys geographica*. In The Reptile Fauna of Canada (Accepted 29-Apr-2009).

Steen, D.A., J.P. Gibbs, K.A. Buhlmann, J.C. Carr, B.W. Compton, J. Congdon, S. Doody, J.C. Godwin, K.L. Holcomb, D. Jackson, F. Janzen, G. Johnson, M. Jones, G. Lamer, T. Langen, M. Plummer, J. Rowe, **R.A. Saumure**, J.K. Tucker, and D.S. Wilson. Designating core terrestrial habitat surrounding wetlands for nesting aquatic turtles.

Walde, A.D., **R.A. Saumure**, and T.A. Wheeler. Incidence of Sarcophagid fly larvae (*Tripanurga importuna*) in the nests of a declining species, the North American Wood Turtle (*Glyptemys insculpta*).

**Saumure, R.A.**, R.D. Titman, and T.B. Herman. Beyond home ranges: Integral, statistical, and linear ranges as applied to the Wood Turtle, *Glyptemys insculpta*.

## Technical Reports

**Saumure, R.A.** 2006. Instructions for Authors. Herpetological Conservation and Biology. 7 pages.

**Saumure, R.A.**, and J. Bonin. 1998. A key to the eggs and eggshells of Québec freshwater turtles. Final report to the Fondation de la faune du Québec. 24 pages. [French]

**Saumure, R.A.** 1997. The natural history of four species of turtles inhabiting the Big Creek National Wildlife Area. Report to the Canadian Wildlife Service. 35 pages.

**Saumure, R.A.** 1995. Turtle research in the Big Creek National Wildlife Area. Report to the Canadian Wildlife Service. 82 pages.

**Saumure, R.A.** 1994. A cross-referenced bibliography of the wood turtle, *Clemmys insculpta*. Version 3.2. McGill University. 41 pages.

**Saumure, R.A.** 1992. A report on the pilot year of a mark-recapture study on four species of turtles inhabiting the Big Creek National Wildlife Area, Long Point, Ontario. Report to the Canadian Wildlife Service. 21 pages.

## Invited Symposia

**Saumure, R.A.** 2006. **Effects of patch size and habitat structure on the movements of adult male *Glyptemys insculpta***. Powdermill VI. Portal, Arizona, USA.

**Saumure, R.A.**, and J. Bonin. 2003. **Putting Humpty Dumpty back together again: A key to turtle eggshells?** New Frontiers in Freshwater Turtle Ecology (aka Powdermill V). Annual Meetings of the American Society of Ichthyologists and Herpetologists (ASIH), Herpetologists' League (HL), and Society for the Study of Amphibians and Reptile (SSAR). Manaus, Brazil.

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**Saumure, R.A.,** and J.R. Bider. 1999. **Impact of agricultural development on a population of Wood Turtles (*Clemmys insculpta*) in southern Québec, Canada.** Forum on the Biology and Conservation of North American Turtles of the Genus *Clemmys*. Annual Meetings of the ASIH, HL, and SSAR. Pennsylvania State University.

## Editorial Responsibilities

### Herpetological Conservation and Biology

- Co-founded open-access, peer- reviewed, online herpetology journal in 2006.
- Member of the Governing Board & Chelonian Section Editor.
- Designed and maintain journal [website](#).

### Books: Scientific Advisor / Editor

Ashton, R.E., Jr., and P.S. Ashton. 2008. The Natural History and Management of the Gopher Tortoise (*Gopherus polyphemus* Daudin). Krieger Press, Melbourne, Florida.

Desroches, J.-F., and D. Rodrigue. 2004. Amphibiens et Reptiles du Québec et des Maritimes. Éditions Michel Quintin, Waterloo, Québec. [French]

Sunset Books. 1997. Water Gardens. Sunset Publishing Corporation, Menlo Park, California.

## Peer Review

Canadian Field-Naturalist; Chelonian Conservation and Biology; Copeia; Herpetologica; Herpetological Bulletin; Herpetological Conservation and Biology; Herpetological Review; Journal of Herpetology; Northeastern Naturalist; Southeastern Naturalist

## Professional Appointments

### International Union for the Conservation of Nature (IUCN) Gland, Switzerland

Species Survival Commissions:

- Conservation Breeding Specialist Group (2005 – Present)
- Crocodile Specialist Group (2001 – 2008)
- Re-Introduction Specialist Group (2001 – Present)
- Tortoise and Freshwater Turtle Specialist Group (2003 – 2009)
- Tortoise and Freshwater Turtle Specialist Group Steering Committee (2009 – Present)

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**Desert Tortoise Council** – Board of Directors (2011 – Present)  
**Turtle Survival Alliance** – Development Committee (2011 – Present)  
**Herpetologists' League** – Membership Committee (2010 – Present)  
**Relict Leopard Frog Conservation Team** (2007 – Present)  
**Québec Multi-Species Turtle Recovery Plan Committee** (2003 – 2005)  
**2008 Joint Meetings of Ichthyologists & Herpetologist Local Organizing Committee** (2004 – 2008)

## Research Projects

**Project Title:** Southern Nevada Public Lands Management Act – Exploration Trail & Historic Cottages  
**Grant:** \$12,000,000  
**Years:** 2005 – 2013  
**Funding Agency:** Bureau of Land Management

**Project Title:** Springs Preserve Raptor Protector project.  
**Grant:** \$7,500  
**Years:** 2007 – 2009  
**Funding Agencies:** Nevada Community Foundation; NV Energy – *gratis* installation

**Project Title:** Infrared camera traps for mammal surveys  
**Grant:** \$15,000  
**Years:** 2006 – 2007  
**Funding Agency:** Nevada Community Foundation

**Project Title:** Impact of agricultural development on the Wood Turtle (*Glyptemys insculpta*).  
**Grants:** \$54,000  
**Years:** 1998 – 2000  
**Funding Agencies:** Fondation de la Faune du Québec, Société des Amis du Biodôme de Montréal, and Ministère de l'Environnement et de la faune du Québec

**Project Title:** Wood Turtle (*Clemmys insculpta*) status report for the Province of Québec.  
**Grants:** \$1,000  
**Year:** 1998  
**Funding Agencies:** Parks Canada and Ministère de l'Environnement et de la faune du Québec

**Project Title:** Dichotomous key to the eggs and eggshell fragments of the freshwater turtles of Québec.  
**Grants:** \$15,000  
**Years:** 1998 – 1999  
**Funding Agencies:** Biodôme de Montréal, Société des Amis du Biodôme de Montréal, and Ministère de l'Environnement et de la faune du Québec

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**Project Title:** Population ecology of Giant Toads (*Bufo marinus*) inhabiting a Tropical Rainforest mesocosm.

**Grant:** \$800

**Years:** 1997 – 1999

**Funding Agency:** Université du Québec à Montréal

**Project Title:** Comparative study of *Clemmys insculpta* populations in agricultural and forest habitats.

**Grants:** \$16,000

**Years:** 1994 – 1995

**Funding Agencies:** Ministère de l'Environnement et de la faune du Québec and St. Lawrence Valley Natural History Society

**Project Title:** Correlations between growth, body size, and survivorship of repatriated *Clemmys insculpta*.

**Grant:** \$1,500

**Years:** 1994 – 1998

**Funding Agency:** Biodôme de Montréal

**Project Title:** Survey of the Ottawa River for the Threatened Eastern Spiny Softshell Turtle, *Apalone spinifera*.

**Grants:** \$15,000

**Year:** 1993

**Funding Agencies:** World Wildlife Fund and Ministère de l'Environnement et de la faune du Québec

**Project Title:** Mark-recapture study of four species of freshwater turtles in the Big Creek National Wildlife Area, Long Point, Ontario, Canada.

**Grants:** \$15,000

**Year:** 1993

**Funding Agencies:** World Wildlife Fund, Canadian Wildlife Service, Ontario Ministry of Natural Resources, and St. Lawrence Valley Natural History Society

## Volunteer Experience

**Research Associate**

**Herpetology Department**

**[National Museum of Canada](#)**

**1983 – 1987**

- Volunteered one half day per week in the Herpetology Department while attending high school.
- Husbandry of a large collection of Canadian amphibians and reptiles.
- Began an independent mark-recapture study of four freshwater turtle species in Ontario; the data are now considered “historical data.”

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## *Professional Associations*

The Wildlife Society  
Herpetologists' League  
Turtle Survival Alliance

Society for the Study of Amphibians and Reptiles  
Society for Conservation Biology  
Desert Tortoise Council

## *Professional Courses*

**Title:** Bioterrorism Awareness and Zoonotic Diseases Education

**Date:** March 30<sup>th</sup>, 2006

**Location:** Las Vegas, Nevada

**Instructor:** David Thain, D.V.M., State Extension Veterinary Specialist

**Agency:** Area Health Education Center of Southern Nevada

**Title:** Intermediate Level Program Mark

**Dates:** June 3 – 7<sup>th</sup>, 2002

**Location:** Denver, Colorado

**Instructors:** Drs. Gary White, Kenneth Burnham, and David Anderson

**Agency:** Colorado State University

## *Media Coverage*

### **National Magazines / Websites**

- Chronicle of Higher Education (2011) January 31, [Scholars Create High-Impact Journal for about \\$100 per Year](#)
- AAAS Science Careers (2005) [Taking a Gamble - A Wildlife Biologist's Journey to Vegas](#)
- L'Actualité (1996) April 15, pp. 66-68; Amphibian Decline; French equivalent of Time Magazine
- Les Débrouillards (1996) Volume 154, pp. 40-41; French Children's Magazine
- Owl Magazine (1985) January, p. 30; Children's Magazine

### **Television**

- Springs Elemental (2011); [Springs Lives; Raptor Rapture](#)
- Springs Elemental (2010); [Springs Lives; Backyard to Nature](#)
- Springs Elemental (2010); [Long-tailed Brush Lizard Hatchling](#)
- Springs Elemental (2009); [Springs Lives; Urban Island](#)
- "Wild in Vegas" (2000) Nov & Dec.; Las Vegas TV show on wildlife at city facilities
- Zone X (1999) Episode # 36; Québec French TV show on my PhD research

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## **City Newspapers**

- Journal de Montréal (1998) April 16, p. 7
- La Presse (1995) July 2, p. A10
- The Ottawa Citizen (1984) July 23, p. 41

## **Local Newspapers**

- Les 2 Rives (1997) Volume 19(46), p. 1
- Carillon (1991) May 22, p. A6
- Biome (1985) Volume 5(2), p. 1

## *Special Skills*

- ArcView GIS and Spatial Analyst with Animal Movement extension
- SAS and SPSS statistical software
- Reference Manager; ~ 2,600 papers on file
- Advanced radio-telemetry experience
- Website design with Dreamweaver software
- Bilingual; English and French, written and spoken
- NAUI Basic Open Water SCUBA certification
- Intermediate MARK Workshop (5 days); Colorado State University

## *Citizenship*

USCIS Permanent Landed Immigrant (Green Card)  
USCIS Alien of Extraordinary Ability ([EB-1](#))  
Canadian Citizen