

# Marie-Hélène BURLE

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👤 [github.com/prosoitos](https://github.com/prosoitos)  
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🔥 [stackoverflow.com/users/9210961/prosoitos](https://stackoverflow.com/users/9210961/prosoitos)

## PROFILE

Evolutionary Biologist by training, Software/Data Carpentry instructor, and open source advocate, I train researchers in machine learning, Julia, R, Python, Git, HPC, and Linux for [WestGrid](#) and [Compute Canada](#).

## LANGUAGES

<i>Programming</i>	<i>Scripting</i>	<i>Version control</i>	<i>Markup</i>	<i>SSG</i>	<i>Style sheet</i>	<i>Human</i>
R	Bash	Git	HTML	Hugo	CSS	English
Julia	Z shell		ℒ <sub>A</sub> T <sub>E</sub> X		SCSS	French
Python	AutoHotkey		Org-mode			Spanish
Emacs-Lisp			Markdown R Markdown			

## PROGRAMMING

### Research computing support

#### Webinars

2020 [WestGrid](#) [Machine learning in Julia with Flux](#)  
[Introduction to Julia](#)  
[Fun tools to simplify your life in the command line](#)

### Workshops developed and delivered

2020 [UBC JupyterDays 2020](#) [The Julia kernel for Jupyter](#)  
2020 [WestGrid Summer School](#) [Machine learning with PyTorch](#)  
[Version control with Git](#)  
[Programming in Julia](#)  
2020 [UBC Research Commons](#) [Collaborating through GitHub](#)  
2020 [SFU Spring School](#) [HPC in Julia](#)  
2018 [27<sup>th</sup> International Ornithological Congress](#) [R workshops:](#)  
[Tips on best practices in R](#)  
[Functional programming in R \(with purrr\)](#)  
[Magrittr less used "piping" treasures](#)  
2018 [SFU Research Commons](#) [R workshops for graduate students and faculty](#)

2017/18	SFU Scientific Programming Study Group	Introduction to Emacs Getting started with Emacs packages Introduction to org-mode Introduction to Git Presenting Arch Linux
2018	Software Carpentry & Data Carpentry	Delivered multiple workshops as a certified instructor

## Professional consultations

2018	Simon Fraser University (SFU) Research Commons	<b>R consultations with graduate students, and faculty</b> One-on-one R support debugging code, pointing to resources, guiding towards solutions, or writing code
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## Minor contributions to open source books

2018/19	Geocomputation with R by R. Lovelace, J. Nowosad & J. Muenchow
2018/19	Advanced R by H. Wickham
2018	R for Data Science by G. Grolemund & H. Wickham
2018/20	Pro Git 2 <sup>nd</sup> ed. by S. Chacon & B. Straub

## Software development

2019	Wrote the open-source utility <a href="#">Tra.sh</a>	Full-feature trash management for Linux, compliant with <a href="#">FreeDesktop.org specification</a> , using the power of <a href="#">fzf</a>
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## Contributions to the open source community

*Under the pseudo “prosoitos”*

2018/19	SFU Scientific Programming Study Group	Admin
2018/19	RStudio Community forum	Moderator & active member
2018	<a href="#">magrittr</a> package	Minor contributor
2020	<a href="#">lazygit</a> software	Minor contributor
2018	<a href="#">Data Analysis &amp; Visualization in R</a> Data Carpentry lesson	Minor contributor
2018	<a href="#">R for Reproducible Scientific Analysis</a> Software Carpentry lesson	Minor contributor
2018	<a href="#">Version Control with Git</a> Software Carpentry lesson	Minor contributor
2018	<a href="#">The Unix Shell</a> Software Carpentry lesson	Minor contributor
2018	Software & Data Carpentry <a href="#">Instructor Training</a> lesson	Minor contributor
2018	<a href="#">purrr</a> package	Minor contributor
2018	<a href="#">lintr</a> package	Minor contributor
2018	<a href="#">huxtable</a> package	Minor contributor
2018	<a href="#">EDAWR</a> package	Minor contributor
2018	<a href="#">purrr tutorial</a> by J. Bryan	Minor contributor

2018	<a href="#">R Cheat Sheets</a> by RStudio	Minor contributor
2018	<a href="#">qutebrowser</a> software	Minor contributor
2018	<a href="#">ranger</a> software	Minor contributor
2018	<a href="#">restic</a> software	Minor contributor
2018/20	<a href="#">Stack Overflow</a>	Active member
2018/20	<a href="#">Emacs Stack Exchange</a>	Active member
2018/20	<a href="#">Unix &amp; Linux Stack Exchange</a>	Active member
2018/20	<a href="#">Ask Ubuntu Stack Exchange</a>	Active member
2020	<a href="#">Netlify</a> forum	Active member
2018/19	<a href="#">rOpenSci</a> forum	Active member
2018/19	<a href="#">Hugo</a> static site generator forum	Active member

## Awards

2018	<a href="#">RStudio Community</a> forum	New user of the month
2018	<a href="#">rOpenSci</a> forum	New user of the month

## ACADEMIC WRITING SUPPORT

### Professional consultations

2016/18	<a href="#">SFU Student Learning Commons</a>	<b>Academic writing consultations in French</b> One-on-one support to graduate and undergraduate students writing essays and theses: feed-back on structure, language, grammar, clarity, and style; teaching of specific points and pointing to resources
2017	<a href="#">SFU Student Learning Commons</a>	<b>Academic writing consultations in English</b> Same as above, in English
2017	<a href="#">SFU Department of French</a>	<b>Academic writing consultations in French</b> One-on-one consultations with students writing assignments: feed-back on structure, style, and grammar

### Workshops developed and delivered

2016/18	<a href="#">SFU Student Learning Commons</a>	French academic writing workshops: <a href="#">Writing dissertations in French</a> <a href="#">Navigating French tenses</a> French grammar, and sentence structure The French indicative mode
2017/18	<a href="#">SFU Student Learning Commons</a>	Delivered workshops on academic writing in English
2017/18	<a href="#">Fraser International College</a>	Delivered workshops on writing good arguments

## Online resources

2016 [SFU Library](#) Built a [library webpage](#) with academic French writing resources

## TEACHING

### Sessional lecturer

2017 1<sup>st</sup> block [Quest University Canada](#) Evolution foundation course  
 2017 2<sup>nd</sup> block [Quest University Canada](#) Evolution

### Private tutor

2007/11 Private lessons in French  
 2002/03 Private lessons in Maths, English, French & Biology for [Academia](#)

### Teaching assistant

2017 summer	SFU	Dr. K. Fitzpatrick	Genetics 2 <sup>nd</sup> year
2016 summer	SFU	Dr. K. Fitzpatrick	Genetics 2 <sup>nd</sup> year
2016 spring	SFU	Dr. R. Ydenberg	Behavioural ecology 4 <sup>th</sup> year
2015 fall	SFU	Dr. B. Crespi	Evolution 3 <sup>rd</sup> year <sup>1</sup>
2015 spring	SFU	Dr. R. Mathewes	Evolution 3 <sup>rd</sup> year <sup>2</sup>
2014 fall	SFU	Dr. A. Mooers	Evolution 3 <sup>rd</sup> year
2010 fall	SFU	Dr. D. Green	Animal ecology writing intensive 3 <sup>rd</sup> year
2009 fall	SFU	E. Barley	General biology 1 <sup>st</sup> year
2008 spring	SFU	Dr. A. Beckenbach	Population genetics 4 <sup>th</sup> year
2008 spring	SFU	<a href="#">Continuing Studies</a>	International teaching assistant program

## RESEARCH

### Publications

#### Peer-reviewed articles

Cuthbert R.J., Wanless R.M., Angel A., **Burle M.-H.**, Hilton G.M., Louw H., Visser P., Wilson J.W. & Ryan P.G. 2016. Drivers of predatory behavior and extreme size in house mice *Mus musculus* on Gough Island. *Journal of Mammalogy* 97(2): 533–544

<sup>1</sup>based on Herron & Freeman “Evolutionary Analysis”

<sup>2</sup>based on Zimmer & Emlen “Evolution”

- Wilson J.W., Wanless R.M., **Burle M.-H.**, Angel A., Kritzinger P. & Stead B. 2010. Breeding biology of Brown Noddies *Anous stolidus* at their southern-most breeding site, Gough Island, in comparison to other sites. *Ardea* 98(2):242–246
- Wilson J.W., **Burle M.-H.**, Cuthbert R.J., Stirnemann R.L. & Ryan P.G. 2010. Breeding success of Northern Rockhopper Penguins (*Eudyptes moseleyi*) at Gough Island, South Atlantic Ocean. *Emu-Austral Ornithology* 110(2):137–141
- Cuthbert R., Cooper J., **Burle M.-H.**, Glass C.J., Glass J.P., Glass S., Glass T., Hilton G.M., Sommer E.S., Wanless R.M. & Ryan P.G. 2009. Population trends and conservation status of the Northern Rockhopper Penguin *Eudyptes moseleyi* at Tristan da Cunha and Gough Island. *Bird Conservation International* 19(1):109–120
- Bester M.N., **Burle M.-H.**, Hofmeyr G.J.G. & Wilson J.W. 2006. Population trends of Subantarctic fur seals at Gough Island. *South African Journal of Wildlife Research* 36(2):191–194
- Wilson J.W., **Burle M.-H.** & Bester M.N. 2006. Vagrant Antarctic pinnipeds at Gough Island. *Polar Biology* 29(10):905–908

### Biology French M.Sc. thesis

- Burle M.-H.** 2001. Inventaire des populations hivernales d'oiseaux de la Forêt Montmorency par points d'écoute: Problématique, protocole d'échantillonnage et analyses par rapport à la température, à la hauteur et la composition des peuplements forestiers. Dept. Biologie, Faculté de Sciences et Génie, Université Laval, Ste Foy (QC)

### Reports

- Burle M.-H.** & Lank D.B. 2015. Tuamotu Sandpiper (*Prosobonia parvirostris*) Translocation: feasibility assessment, sites review and recommendations. Submitted to: Critical Ecosystem Partnership Fund (CEPF)
- Burle M.-H.** 2014. Habitat assessment of Palmyra Atoll for a translocation of Tuamotu Sandpiper *Prosobonia parvirostris*. Submitted to: Island Conservation and US Fish & Wildlife Service
- Burle M.-H.** & Lank D.B. 2013. Rapport de visite à Raraka (31 octobre–10 novembre 2012). Situation du Chevalier des Tuamotu *Prosobonia parvirostris*, Perspectives d'avenir et recommandations, Inventaires non-exhaustifs botanique et ornithologique. Submitted to: DIREN de Polynésie Française, Papeete, Tahiti (PF)
- Burle M.-H.** & Lank D.B. 2013. Reitoru Atoll, Tuamotu Archipelago, French Polynesia: situation, conservation prospects and recommendations for Tuamotu Sandpipers and new insights on the effects of Polynesian rats on this endangered species (June 23–July 4, 2012). Submitted to: Island Conservation, Santa Cruz (CA)
- Burle M.-H.** & Lank D.B. 2013. Tahanea Atoll, Tuamotu Archipelago, French Polynesia: Toreauta islet rat removal follow-up (outcome of eradication and effects on endangered Tuamotu Sandpipers) and elements for future eradications on Tahanea (July 5–October 16, 2012). Submitted to: Island Conservation, Santa Cruz (CA)
- Lank D.B. & **Burle M.-H.** 2011. Conservation of the Tuamotu Sandpiper. Final Scientific Report 2010–2011. Submitted to: Migratory Birds and Habitat Programs Region 1, US Fish & Wildlife Service, Portland (OR)
- Burle M.-H.**, Ashling C., Durieux J., Faulquier L., Gouni A., Lanctot R.B., McRae S., Poherui M., Portier E., Raust P., Rousset P., Serra C. & Lank D.B. 2009. Etude du Chevalier des Tuamotu (*Prosobonia cancellata*) sur l'atoll de Tahanea : écologie, système social, reproduction et conséquences pour la conservation. Submitted to: Société d'Ornithologie de Polynésie (SOP) "Manu", Taravao, Tahiti (PF)

### Conferences & lectures

## Symposium invited speaker

**Burle M.-H.** & Lank D.B. Translocation priorities for endangered shorebird altered by floral physiology. North American Ornithological Conference VI, Washington, DC (USA) Aug. 2016

## Invited speaker

**Burle M.-H.** Shorebird conservation oft-neglected rule: “don’t forget to poke at flowers”. Environment Canada, Delta, BC (CAN) Dec. 2016

**Burle M.-H.** & Lank D.B. Biology and conservation of the last Polynesian sandpiper. Environment Canada, Delta, BC (CAN) Oct. 2013

**Burle M.-H.** & Lank D.B. Un caso de conservación de aves playeras en las islas del Pacífico—el Playero de Tuamotu (*Prosobonia parvirostris*): ecología, problemas y soluciones. Universidad Icesi, Cali (COL) Oct. 2013

**Burle M.-H.**, Lank D.B. & Lanctot R.B. Life history of the Tuamotu Sandpiper. Langley Field Naturalists, Langley, BC (CAN) Mar. 2011

## Invited lecture

Sexual selection: examples in birds. Lecture given for a 3<sup>rd</sup> year course in Evolution, SFU, Vancouver, BC (CAN) Oct. 2014

## First place Student Presentation Award

**Burle M.-H.**, Lank D.B. & Lanctot R.B. Mating system and breeding ecology of an endangered tropical sedentary shorebird in a saturated habitat. COS/AOU/SCO Joint Meeting, San Diego, CA (USA), Feb. 2010

## Conference oral presentations

**Burle M.-H.** & Lank D.B. Sex, age and populations: morphological variation in the endangered Tuamotu Sandpiper. North American Ornithological Conference VI, Washington, DC (USA) Aug. 2016

**Burle M.-H.** Translocating Titi to Palmyra? Palmyra Atoll Research Station, Palmyra Atoll (USA) June 2014

**Burle M.-H.** & Lank D.B. An endangered shorebird of South Pacific Islands: problematic and solutions. Presented in a lecture on endangered species, SFU, Vancouver, BC (CAN) Nov. 2013

**Burle M.-H.** & Lank D.B. Conservation of the Tuamotu Sandpiper (*Prosobonia parvirostris*)—endangered shorebird endemic to East Polynesia—through rat eradications and bird translocations. 5<sup>th</sup> Western Hemisphere Shorebird Group Meeting, Santa Marta (COL) Sept. 2013

**Burle M.-H.**, Rico-Guevara A., Rubega M. & Lank D.B. A hummingbird tongue in a shorebird head. Society for Integrative and Comparative Biology (SICB) annual meeting, San Francisco, CA (USA) Jan. 2013

**Burle M.-H.**, Rico-Guevara A., Rubega M. & Lank D.B. Independent evolution of nectarivory: Tuamotu Sandpipers are nectar-feeders. 5<sup>th</sup> North American Ornithological Conference, Vancouver, BC (CAN) Aug. 2012

**Burle M.-H.** & Lank D.B. Ocean swell drives unexpected population crash in the endangered Tuamotu Sandpiper suggesting earlier consequences of future sea-level rise. 5<sup>th</sup> North American Ornithological Conference, Vancouver, BC (CAN) Aug. 2012

**Burle M.-H.** & Lank D.B. Preserving an endangered island shorebird: a model for conservation planning. Centre for Wildlife Ecology (CWE) Retreat, Vancouver, BC (CAN) Apr. 2012

**Burle M.-H.** & Lank D.B. Conservation of the Tuamotu Sandpiper, an endangered species. Presented in a lecture on endangered species, SFU, Vancouver, BC (CAN) Nov. 2011

**Burle M.-H.**, Lank D.B. & Lanctot R.B. Mating system and breeding ecology of an endangered tropical sedentary shorebird: the Tuamotu Sandpiper. Kachemak Bay Shorebird Festival, Homer, AK (USA) May 2010

**Burle M.-H.**, Lank D.B. & Lanctot R.B. First findings on the ecology of the Tuamotu Sandpiper *Prosobonia cancellata*. Pacific Ecology and Evolution Conference (PEEC), Bamfield, BC (CAN) Mar. 2010

**Burle M.-H.**, Lank D.B. & Lanctot R.B. Mating system and breeding ecology of an endangered tropical sedentary shorebird in a saturated habitat. COS/AOU/SCO Joint Meeting, San Diego, CA (USA) Feb. 2010

**Burle M.-H.**, Lank D.B. & Lanctot R.B. Ecology, social organization & breeding biology of the Tuamotu Sandpiper (Titi). UBC/SFU/UVic Ecology and Evolution Retreat, Brackendale, BC (CAN) Nov. 2009

**Burle M.-H.**, Lank D.B. & Lanctot R.B. Social system and breeding biology of the Tuamotu Sandpiper *Prosobonia cancellata*. International Wader Study Group Conference, Texel (NLD) Sept. 2009

## Posters

**Burle M.-H.** Conservation planning for the last Prosoboniid—a shorebird tribe endemic to Eastern Polynesia. Pacific Environment Congress, Suva (FJI) Dec. 2013

**Burle M.-H.** Conservation planning for the last Prosoboniid—a shorebird tribe endemic to Eastern Polynesia. BirdLife World Congress, Ottawa, ON (CAN) Jun. 2013

**Burle M.-H.** Conservation planning for the last Prosoboniid—a shorebird tribe endemic to Eastern Polynesia. CEPF Poly Micro End of Programme Evaluation Workshop, Suva (FJI) Apr. 2013

**Burle M.-H.**, Lank D.B. & Lanctot R.B. The Tuamotu Sandpiper: a weird, unknown and tropical shorebird—Situation and proposed study plans. Pacific Ecology and Evolution Conference (PEEC), Bamfield, BC (CAN) Feb. 2008

**Burle M.-H.**, Lank D.B. & Lanctot R.B. The Tuamotu Sandpiper: a weird, unknown and tropical shorebird—Situation and proposed study plans. SFU/UBC/UVic Retreat, Brackendale, BC (CAN) Nov. 2007

## Professional affiliations, past & present

International Ornithologists' Union, American Ornithologists' Union, Cooper Ornithological Society, Society of Canadian Ornithologists, French Polynesian Ornithological Society SOP "Manu", American Association for the Advancement of Science, Society for Integrative & Comparative Biology, Society for Integrative and Comparative Biology, Association de Défense de l'Environnement en Vendée.

### Memberships awarded:

2012 & 2013 AAAS

2011 & 2012 Cooper Ornithological Society

## Funding

2012	Critical Ecosystem Partnership Fund	\$48,800	
2007/13	SFU Graduate Fellowships	\$47,500	
2008/09	French Polynesian Government	\$43,000	
2011	Island Conservation	\$40,000	
2011	Island Conservation	\$40,000	in personal, time, shipping & equipment
2010	Critical Ecosystem Partnership Fund	\$20,000	
2010	US Fish & Wildlife Service	\$20,000	
2008/12	US Fish & Wildlife Service	\$15,000	in time, shipping & equipment
2013	NSERC associated Graduate Fellowship	\$12,500	
2010	SFU Research Stipend	\$6,250	
2008	Graduate International Scholarship	\$6,250	
2008/16	SFU Travel Awards	\$3,940	
2012	Island Conservation	\$1,500	
2010	T. Schantz Memorial Foundation Scholarship	\$1,300	in paid expenses to present at the KBSF in Homer, AK
2010	Fred Cooke Student Research Award	\$1,000	
2016	SFU Professional Development Grant	\$500	
2012	French Polynesian Government	\$500	
2010	Slipstream First Aid Scholarship	\$350	
<b>Total raised</b>		<b>\$308,390</b>	

## PROFESSIONAL EXPERIENCE

2019/20	<i>Drs. P. Mann/A. Razoumov</i> WestGrid / Compute Canada	<b>Research Computing Training Assistant</b> (BC, AB, SK, MB, Canada)
2007/18	<i>Drs. D. Lank/R. Ydenberg</i> Simon Fraser University	<b>PhD candidate</b> Breeding biology, ecology, social system & conservation of Tuamotu Sandpiper; evolution of its nectarivory & co-adaptation with <i>Scaevola taccada</i> (Vancouver, BC, Canada) (Tuamotu Archipelago, French Polynesia, South Pacific Ocean)
2018	<i>C. Graebner</i> SFU Research Commons	<b>Research programming peer for R</b> (Vancouver, BC, Canada)
2016/18	<i>Dr. A. Goldrick-Jones</i> SFU Student Learning Commons	<b>Graduate writing facilitator</b> (Vancouver, BC, Canada)
2017	<i>C. Bossavit</i> SFU Department of French	<b>Official tutor of the French Department</b> (Vancouver, BC, Canada)
2014	<i>Dr. A. Wegmann</i> Island Conservation; US Fish & Wildlife Service	<b>Specialist on site</b> Habitat assessment for Tuamotu Sandpiper translocation (Palmyra Atoll, Northern Line Islands, North Pacific Ocean)



2013	<i>Dr. D. Lank</i> SFU Centre for Wildlife Ecology	<b>Shorebird conservation biologist</b> Translocation feasibility assessment & sites review for Tuamotu Sandpiper (Vancouver, BC, Canada)
2011/12	<i>M. Pott/R. Griffiths</i> Island Conservation	<b>Project initiator &amp; biologist on site</b> Rat eradication & follow-up (Tahanea Atoll, French Polynesia, South Pacific Ocean)
2007	<i>Dr. D. Lank</i> SFU Centre for Wildlife Ecology	<b>Research assistant</b> Ruff captive breeding & experimental program (Vancouver, BC, Canada)
2005/06	<i>Drs. R. Cuthbert/P. Ryan</i> Royal Society for the Protection of Birds; University of Cape Town FitzPatrick Institute of African Ornithology	<b>Subantarctic seabird, marine mammal &amp; introduced species biologist</b> Seabird & marine mammal populations monitoring; introduced mice pre-eradication study & tracking; seabird life history, genetic & isotope studies (Gough Island, South Atlantic Ocean)
2005	Ligue pour la Protection des Oiseaux (BirdLife France)	<b>Landbird conservation biologist</b> Captive breeding for reinforcement of Little Bustard population (Deux-Sèvres, France)
2005	<i>Dr. M. Salamolard</i> Société d'Etudes Ornithologiques de la Réunion	<b>Tropical seabird conservation biologist</b> Public outreach & Barau's Petrel recovery program (Reunion Island, Indian Ocean)
2003/05	<i>Drs. H. Weimerskirch/Y. Cherel</i> <i>Drs. C. Barbraud/C.A. Bost</i> <i>Drs. C. Guinet/O. Chastel</i> Centre d'Etudes Biologiques de Chizé/Centre National de la Recherche Scientifique; Institut Polaire Français	<b>Subantarctic seabird &amp; marine mammal biologist</b> Populations monitoring; remote sensing; genetic, isotope & hormone sampling (Crozet Island, South Indian Ocean)
2003	<i>Dr. G. Divoky</i> Friends of Cooper Island	<b>Arctic seabird field technician</b> Black Guillemot breeding colony monitoring (Barrow, AK, USA)
2003	<i>D. Holt</i> Owl Research Institute	<b>Arctic owl field technician</b> Snowy Owl breeding study (Barrow, AK, USA)
2003	<i>Dr. R. Lanctot</i> US Fish & Wildlife Service	<b>Arctic breeding shorebirds research assistant</b> Comparison between nest searching techniques; monitoring; extra pair copulation study (Barrow, AK, USA)
2002	Estación biológica de Doñana; Fundación Global Nature; BioBrasil Foundation	<b>Bird bander</b> Passerine, hummingbird, parrotlet, raptor & shorebird mist-netting, aging, sexing & banding (Doñana National Park, Spain) (Palencia, Spain) (Piauí, Brazil)

2002	<i>Dr. C. Munn</i>	<b>Tropical bird conservation biologist</b> Inventory of avian species on one of the last two Lear's Macaw remaining sites as part of eco-tourism based conservation project (Piauí, Brazil)
2002	<i>Dr. C. Munn</i> <a href="#">BioBrasil Foundation</a>	<b>Bird guide</b> Guiding birders in the Cerrado as part of ecotourism-based conservation project (Bahia, Brazil)
2001	<i>J. Allair</i> <a href="#">Bird Studies Canada</a>	<b>Bird bander</b> Passerine, owl, raptor & shorebird mist-netting, identification, aging, sexing & banding; butterfly censuses; volunteer training; public education & outreach (Long Point Bird Observatory, ON, Canada)
2001	<i>Drs. J. Bourque/A. Desrochers</i> <a href="#">Laval University</a>	<b>Habitat fragmentation research assistant</b> Passerine travel speed experiments & breeding censuses in variously fragmented habitats (Quebec, QC, Canada)
2000/01	<i>Dr. A. Desrochers</i> <a href="#">Laval University</a>	<b>Research as a biology French MSc student</b> Distribution & movement of wintering birds & mammals in a boreal forest (obtained through point counts & transects) in correlation with habitat variables (through GIS analysis) (Quebec, QC, Canada)
1999/00	<a href="#">Office National de la Chasse et de la Faune Sauvage;</a> <a href="#">Office National des Forêts</a>	<b>Ornithologist</b> Heronries censuses & migrating seabird counts (Vendée, France)
1999/00	<a href="#">Association de Défense de l'Environnement en Vendée</a>	<b>Bird guide &amp; ornithologist</b> Public education & outreach; bird monitoring (Vendée, France)

## EDUCATION

### Academic

2007/18	PhD candidate in Biology— <a href="#">Simon Fraser University</a> (Burnaby, BC, Canada)
GPA:	4.03
Courses:	Statistical computing & exploratory data analysis in R AIC statistics for ecology Quantitative methods Quantitative analysis in field biology Statistics for resource management Skills for carrier in science Biodiversity Evolution of health & disease Population biology

## Directed reading in behavioural ecology

- 2000/01 French MSc in Biology, with honours—[Laval University](#) (Québec, QC, Canada)  
 1999/00 BSc in Biology of Organisms—[University of Montpellier](#) (Montpellier, France)  
 1998/99 University Diploma of Biology, with honours—[Aix-Marseille University](#) (Marseille, France)  
 1997/98 [Higher School Preparatory Class](#)—[Lycée Thiers](#) (Marseille, France)

## Certifications & training

### Research computing

- |         |   |                                 |
|---------|---|---------------------------------|
| 2018    | Software Carpentry & Data Carpentry     | Certified Instructor            |
| 2014/18 | SFU Scientific Programming Study Group  | Bimonthly Programming Workshops |
| 2013    | WHSG conference (Santa Marta, Colombia) | Writing R Packages Workshop     |

### Science communication

- |         |   |   |
|---------|---|---|
| 2013    | WHSG conference (Santa Marta, Colombia) | Scientific Communication & Presentation Skills Workshop |
| 2009/14 | SFU                                     | 3 Scientific Writing Workshops                          |

### Work safety

- |      |     |                                |
|------|-----|--------------------------------|
| 2018 | SFU | Worker Safety Training         |
| 2018 | SFU | Bullying & Harassment Training |

### Animal handling

- |      |                                     |  |
|------|-------------------------------------|--|
| 2008 | CRBPO/MNHN/CNRS                     | French Bird Banding Permit               |
| 2008 | Environment & Climate Change Canada | Canadian Master Bird Banding Permit      |
| 2009 | SFU Animal Care Committee           | Canadian Council on Animal Care Training |

### Emergency response

- |      |   |  |
|------|---|--|
| 2010 | Slipstream Wilderness First Aid             | 100-hour Advanced Wilderness First Aid + CPR Level C |
| 2008 | Canadian Red Cross                          | Advanced Marine First Aid + CPR Level B              |
| 2005 | South African School of First Aid Education | Emergency First Aid + CPR Level A                    |

### Ski mountaineering

- |      |                             |                                   |
|------|-----------------------------|-----------------------------------|
| 2018 | Avalanche Canada            | Avalanche Skills Training Level 2 |
| 2016 | Canada West Mountain School | Glacier Travel & Crevasse Rescue  |
| 2016 | Canada West Mountain School | Companion Rescue                  |
| 2016 | Canada West Mountain School | Anchor Building                   |
| 2016 | BC Mountaineering Club      | Hauling Systems                   |

- 2016 BC Mountaineering Club Repelling Techniques
- 2015 Avalanche Canada Avalanche Skills Training Level 1

### **Driving**

- 2003 Class 5 Driver's Licence

## **WILDLIFE PHOTOGRAPHY**

### **Official post office stamp**

- 2016 British Overseas Territory of Tristan da Cunha [6op stamp](#): Gough Flightless Moth (Biodiversity Collection)

### **In books**

- 2013 [The World's Rarest Birds](#), Hirschfeld E., Swash A. & Still R., Princeton, NJ: Princeton University Press
- 2007 [Field Guide to the Animals and Plants of Tristan da Cunha and Gough Island](#), Ryan P.G. (ed.), Newbury: Pisces Publ.
- 2006 [The World Heritage—Unesco's Classified Sites](#), Bonneville P. (ed.) & Hemono P., Québec: Bonneville Connection Publ.

### **Picture award**

- 2010 COS/AOU/SCO photo contest, San Diego (CA, USA) 1<sup>st</sup> place