



SUMMARY

I have led, coordinated and managed science, conservation and community-engagement projects globally for over 20 years including, most recently, with Indigenous communities in Canada. I co-founded a boutique firm that offers consulting services in environment, conservation, and community sustainability. Additionally, I have 5+ years as director for not-for-profit boards and have supported the mission of community and environmental not-for-profit organizations. I have predominantly worked on projects initiated from the ground up and have led multicultural and multidisciplinary teams within tight budgets and timelines.

PROFESSIONAL SKILLS

- science and community-led project design and management;
- grant writing;
- multidisciplinary and multicultural team building, training and supervision;
- community and stakeholder engagement;
- scientific writing and presentations (over 30 international conferences);
- scientific communications for non-scientific recipients (was interviewed for CBCs Quirks & Quarks, Science Magazine, Vice News among other interviews);
- data management, analysis and complex data acquisition methods;
- chaired not-for-profit boards (preside two not-for-profit organizations);
- co-developed phone application (front-end);
- proficient in English, French, and Spanish (written and oral);
- passionate to work toward a just, safe, and healthy world.

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ISABELLE-ANNE BISSON

M . S . C . , P H . D

EXPERIENCE

Co-Founder and President

TerraHumana Solutions | 2014-present

TerraHumana Solutions is a boutique firm that helps leaders in communities and businesses reduce their environmental footprint, increase social engagement and sustainability.

Featured Projects

1. First Nations Environmental Contamination Program (FNECP, First Nations and Inuit Health Branch, Government of Canada) funded project on the Mohawk territory of Kanesatake (present). In collaboration with the Mohawk Council of Kanesatake and McGill University, we received federal funding to perform the first analysis of environmental contaminants on the territory to understand the potential effects on the health of community members';
2. Community resilience to climate-mediated natural disasters (present). In collaboration with Dr. Fayazi of the Institute for Disaster Management and Reconstruction (IDMR) at the Sichuan University and Polytechnic University of Hong Kong;
3. Raglan Mine (2019). Mandated to conduct a study on waste management at Raglan Mine (Glencore Group). We performed a full assessment of the current state in waste management at the mine and proposed alternatives to optimise waste management for non-mine waste. Our work showcased the mines current success with waste reduction measures;
3. Mohawk Council of Kahnawà:ke (2018-2019). Lead a community engagement and education project on environmental stewardship in the shared hunting and fishing territory between the Kanesatake and Kahnawà:ke communities;
4. Ottawa River Watershed Study, Kanesatake's Ratihontsanonhstats Environment Department (Funded by Environment and Climate Change Canada, 2018). This community engagement project on the Mohawk territory of Kanesatake aimed to understand the community's historical and present view on the health of the Ottawa River Watershed. Community members reported that they finally felt that their voice was heard on long-term concerns over the health of the watershed;
5. Makivik Corporation (2015-2017), Québec. Technical advisor for the Inuit communities of Salluit and Kangiqsujuaq. Reviewed environmental and social impact assessment study and proposed mitigation measures for Raglan Mine's (Glencore Group) mining projects planned for 2017-2041 in Nunavik.

EXPERIENCE

Research Associate / Project Lead

Smithsonian Institution | 2010-2013

Co-designed, initiated and lead the Animal Mortality Monitoring Program (AMMP) in east Africa, a disease awareness network and surveillance program using a mobile data recording and visualisation system. Part of the USAID-funded Emerging Pandemic Threat - (EPT) - PREDICT Program

Trained over 150 park rangers on how to efficiently use mobile phones for sick or dead animal reporting.

Built and supervised a team of 10 from different cultures and disciplines to develop an efficient data reporting system.

News coverage of project [http://news.sciencemag.org/biology/2014/11/better-wildlife-monitoring-could-prevent-human-disease-outbreaks?](http://news.sciencemag.org/biology/2014/11/better-wildlife-monitoring-could-prevent-human-disease-outbreaks?rss=1)

<https://news.vice.com/article/monitoring-sick-animals-in-the-wild-could-be-the-key-to-preventing-the-next-ebola-outbreak>

Scientific Consultant

EcoEsperanto Consultancy | 2013

Acted as a scientific consultant on an analysis of Canada's performance on avian conservation in the Americas for the Commissioner of the Environment and Sustainable Development (Office of the Auditor General of Canada).

Report can be found here [http://www.oag-](http://www.oag-bvg.gc.ca/internet/English/parl_cesd_201311_03_e_38673.html)

[bvg.gc.ca/internet/English/parl_cesd_201311_03_e_38673.html](http://www.oag-bvg.gc.ca/internet/English/parl_cesd_201311_03_e_38673.html)

Commissioner / Part-time Member

Bureau d'audiences publiques sur l'environnement | 2012

Acted as commissioner on a BAPE four-month mandate on the construction of a railroad in the Saguenay region, Québec. The work entailed reviewing the environmental impact study and all documentation associated with the project, co-leading two public consultations and writing, as a team, the final report that was sent to the Quebec Environment Minister.

Co-principal Investigator/ Research Associate

Princeton University | 2006-2009

Co-lead a Department of Defense funded research (Strategic Environmental Research and Development Program, SERDP) on Fort Hood military installation to assess environmental, munitions, and training impacts on threatened bird species;

ACADEMIC TRAINING

Smithsonian Environmental Research Center

Post-doctoral fellowship, 2003-2005

York University

Ph.D., Evolutionary Biology, 1999-2004

Recipient of Natural Sciences and Engineering Research Council of Canada grant for PhD research

McGill University & Doñana Biological Station, Spain

M.Sc., Avian Conservation, 1993-1996

McGill University

B.Sc., Environmental Biology, 1990-1993

RELEVANT PUBLICATIONS

1. Fayazi, M., I.-A. Bisson, and E. Nicholas. *In Review*. Barriers to climate change adaptation in Indigenous communities: a case study on the Mohawk community of Kanesatake, Canada. Submitted to International Journal of Disaster Reduction.
2. Fayazi, M. and I.-A. Bisson. 2018. Political barriers to climate change adaptation in Indigenous communities: a case study on the Mohawk community of Kanesatake, Canada. Paper presented at the International Conference on Building Resilience, November 2018, Lisbon, Portugal. <http://2018.buildresilience.org>.
3. Bisson, I.-A., B.J. Ssebide, P. P. Marra. 2014. Preventing emerging zoonotics with animal morbidity and mortality monitoring. *EcoHealth* DOI: 10.1007/s10393-014-0988-x.
4. Bureau d'Audiences Publiques sur l'Environnement (BAPE). 2012. Projet de desserte ferroviaire au terminal maritime de Grande-Anse à Saguenay. Available: <http://www.bape.gouv.qc.ca/sections/rapports/tous/index.htm>.
5. Bisson, I.-A., L. K. Butler, P. Kelley, J. Adelman, T.J. Hayden, L. M. Romero, M.C. Wikelski. 2011. Energetic response to human disturbance in an endangered songbird. *Animal Conservation* 14:484-491. DOI: 10.1111/j.1469-1795.2011.00447.x
6. Bisson, I.-A., K. Safi, R. A. Holland. 2009. Evidence for repeated independent evolution of migration in the largest family of bats. *PloS One* 4(10): e7504. doi:10.1371/journal.pone.0007504.

A full list of publications can be submitted upon request

PROFESSIONAL SERVICE & PUBLIC OUTREACH

Chair of the Board of Directors (2017-present), Table de Quartier du Sud de l'Ouest-de-l'île (TQSOL), Montreal, QC. TQSOL is a local not-for-profit organization and community council, which aims to address the hidden poverty in the southern part the west island of Montreal.

Co-Chair (2017-present) Sierra Club Quebec chapter & board member Sierra Club Canada Foundation.

On several boards and committees for not-for-profit environmental and community organizations.

Member of the Town of Baie d'Urfé committee on the Emerald Ash Borer (2014).