Dr. HOLLY ABBANDONATO
Adjunct and Biologist
University of New Brunswick
506-262-8864
holly.abbandonato@unb.ca

Citzenship: *Canadian*

EDUCATION

1. **PhD in Earth and Environmental Sciences** - Project: NASSTEC (Native Seed Science, Technology and Conservation) (November 2014 - November 2017)
   University of Pavia, Pavia, Italy

2. **Marie-Curie Sklodowska Early Stage Researcher PhD Scholarship**
   MUSE - Science Museum, Trento, Italy (October 2014 - November 2017)

   Thesis: *Using current regulations and practices to develop a certification scheme for native seed production in Europe.* **Project Website:** http://nasstec.eu/forum/esr-11c

3. **MSc in Biology (Northern Populations and Ecosystems)**
   UiT The Arctic University of Norway, Tromsø, Norway (2012 - 2014)
   University Centre in Svalbard, Longyearbyen, Svalbard

   Thesis*: Autumn leaf senescence response to a changing climate: effects of snow-depth on High Arctic plants*

4. **Bachelor of Science in Environment and Natural Resources**
   Concentration: *Wildlife Conservation*
   University of New Brunswick, Fredericton, Canada (2008 - 2012)

5. **Bachelor of Arts in Anthropology**
   University of New Brunswick, Fredericton, Canada (2006 - 2011)

6. **Bachelor of Science in Biology**
   University of New Brunswick, Fredericton, Canada (2006 - 2011)

AWARDS AND GRANTS

- **Fredericton Community Foundation (2018)**
- **Marie-Curie Sklodowska Fellowship (2014 - 2017)**
- **Arctic Field Grant, Svalbard Science Forum (SSF) (2013)**
- **Ward Chipman Scholarship (UNB 2006 - 2007)**

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PROFESSIONAL EXPERIENCE

ADJUNCT (January – April 2019) **Faculty of Forestry and Environmental Management, University of New Brunswick Fredericton Campus, Canada**
Main Duties: Instructor for the course ENVS 2023 Climate Change. 3 credits.

CONTRACT BIOLOGIST (January – March 2019) **Canadian Forest Service, Natural Resources Canada, Fredericton, Canada**
Main Duties: Contribution to the 2nd Canadian report on the FAO's State of Canada's Forest Genetic Resources: preparation of two chapters.

ADJUNCT (September – December 2018) **Faculty of Biology, University of New Brunswick Saint John Campus, Canada**
Main Duties: Instructor for the course BIOL 2125 Intro to Botany and BIOL 2135 Intro to Botany for Nonbiologists. This course includes both a lecture and lab component. 5 credits each.

RESEARCH CONSULTANT (August 20-24th, 2018) **Faculty of Biology University of New Brunswick, Canada**
Main Duties: Conducting statistical analyses, research, and writing a manuscript on the enemy-free space hypothesis on *Eurosta solidaginis* and two parasitoid wasps. Manuscript (*in prep.).*

FREELANCE CONTENT WRITER (January 2018 – April 2018)
Main Duties: Writing educational and promotional online articles on key environmental issues and practices on plants such as climate change and native plants.

EARLY STAGE RESEARCHER (October 2014 - November 2017) **MUSE - Science Museum, Trento, Italy**
Main Duties: Research, budgeting, administration, public outreach, secondments, seed banking local seed accessions, designing pilot projects, and writing chapters on: germination protocols, European regulatory framework, fit-for-purpose seed provenance, the restoration species pool, the soil seed bank in an olive orchard, and seed certification.
NASSTEC Project, budget: EUR 3 373 796.80
For more info, visit: https://cordis.europa.eu/project/rcn/109248_en.html

- SECONDMENT/INTERNSHIP I - Native seed quality control and production challenges (2015)
  Scotia Seeds Ltd, Scotland, & Semillas Silvestres, Spain

- SECONDMENT/INTERNSHIP II - Scientific writing and germination testing (2016) **Millenium Seedbank Kew, England & Scotia Seeds Ltd, Scotland**

- SECONDMENT/INTERNSHIP III - Bio-banking (SPREC) and DEXi Modeling (2017) **Millenium Seedbank Kew, England & the James Hutton Institute, Scotland**

ARCTIC FIELD ASSISTANT (July - August 2013) **UiT The Arctic University of Norway, Tromsø, Norway & the University Centre in Svalbard, Norway**
Main Duties: Conducted species identification, point-framing, measuring moss-depths, counting flowers and site preparation at an Open-Top Chamber (OTC) field site part of the International Tundra Experiment (ITEX).

BOTANY HERBARIUM INTERNSHIP (June - August 2012) **Connell Memorial Herbarium, University of New Brunswick, Canada**
Main Duties: Mounting and filing specimens, species identification and databasing.

RESEARCH GREENHOUSE ASSISTANT (May 2010 - April 2011; June - August 2012) **Faculty of Biology Research Greenhouse, University of New Brunswick, Canada**
Main Duties: Care and maintenance of live research collections, data-basing and identifying species, preparing course material, greenhouse tours, and conducting pilot experiments.

ECOLOGY RESEARCH ASSISTANT (May 2011 - June 2012) **Heard Lab, Faculty of Biology University of New Brunswick, Canada**
Main Duties: Conducted independent summer fieldwork and lab work on insect herbivory in Solidago altissima and Solidago gigantea plant species.

TEACHING ASSISTANT (TA) **Faculty of Biology, University of New Brunswick, Canada**
Main Duties: Presentation of lab material, and creating a positive atmosphere for students. I also helped students with questions and corrected lab reports each week.
BIOL 1006 - Applications in Biology, Part I (September 2010 - December 2010)
BIOL 1017 - Applications in Biology, Part II (Jan 2011 - April 2011)

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PUBLICATIONS

Abbandonato H, Pedrini S, Pritchard HW, De Vitis M, Bonomi C (2017) Native seed trade of herbaceous species for restoration: a European policy perspective with global implications. *Restoration Ecology*. DOI:10.1111/rec.12641

De Vitis M, **Abbandonato H**, Dixon K, Laverack G, Bonomi C, Pedrini S (2017) The European native seed industry - characterization and perspectives in grassland restoration. *Sustainability*. DOI:10.3390/su9101682

Ladouceur EL, Jiménez-Alfaro B, Marin M, De Vitis M, **Abbandonato H**, Iannetta P, Bonomi C, Pritchard HW (2017) Native seed supply and the restoration species pool. *Conservation Letters*. DOI: 10.1111/conl.12381

De Vitis M, **Abbandonato H** (2016) The NASSTEC project: Promoting the use of native seeds to preserve local biodiversity. In: The Mediterranean Garden Society. No. 85 july 2016. Pgs 62-65.

Convey P, **Abbandonato H**, Bergan F, Beumer LT, Biersma EM, Bråthen VS, D'Imperio L, Kjellerup Jensen C, Nilsen S, Paquin K, Stenkewitz U, Svoen ME, Winkler J, Muller E, Coulson SJ (2015) Survival of rapidly fluctuating natural low winter temperatures by High Arctic soil invertebrates. *Journal of Thermal Biology*. 54: 111-117.

CONFERENCE PRESENTATIONS

Abbandonato H, Pritchard HW (2017) A bottom-up approach to native seed quality and certification: Is EU policy fit-for-purpose. Natural capital from native seeds. *Oral presentation* at the NASSTEC conference at Kew Gardens. Richmond, U.K.

De Vitis M, **Abbandonato H,** Bonomi C, Pedrini S (2017) The role of networks connecting native seed stakeholders and improving success in ecological restoration. *Oral presentation* at the 7th World Conference on Ecological Restoration, Iguassu, Brazil.

Abbandonato H, Pedrini S, De Vitis M, Bonomi C, Pritchard HW (2017) A bottom-up approach to seed quality and certification: a survey of the native seed community. *Oral presentation* at the National Native Seed Conference, Washington DC, U.S.A.

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Abbandonato H, Bonomi C, Pritchard H, Laverack G, Pedrini S (2016) Ecological restoration policy and a native seed solution: can we seed the future of Europe? *Oral presentation* at the Society for Ecological Restoration Conference, Freising, Germany.

De Vitis M, Laverack G, **Abbandonato H**, Bonomi C (2016) A European tool to facilitate knowledge transfer among native seed producers, researchers and users. *Poster presentation* at the Society for Ecological Restoration Conference, Freising, Germany.

Bonomi C, Laverack G, Marin M, **Abbandonato H**, Dello Jacovo E, Blandino C, Hernández González M, Lopez del Egido L (2015) The current status, challenges, and opportunities in seed production and use for grassland restoration – a global perspective. *Workshop* at the 6th World Conference on Ecological Restoration, Manchester, U.K.

Abbandonato H, Laverack G, Pritchard H, Bonomi C (2015) Policy and certification for native seed restoration in Europe. *Poster presentation* at the 27th International Congress for Conservation Biology, Montpellier, France.

Abbandonato H, Frischie S (2015) Reaching out to society: explaining the importance of native seeds. *Poster presentation* at the 27th International Congress for Conservation Biology, Montpellier, France.

Abbandonato H, Laverack G, Pritchard H, Bonomi C (2015) Bridging the gap between academia and industry: using current regulations and practices to develop a certification scheme for native plant species in Europe. *Oral presentation* at the National Native Seed Conference, Santa Fe, NM, U.S.A.

Bonomi C, Gálvez Ramírez C, Dixon K, **Abbandonato H**, Frischie S, Lopez del Egido L (2015) Global networking to benefit seed production: exchanging experiences and production models. *Panel* at the National Native Seed Conference, Santa Fe, NM, U.S.A.

Abbandonato H, Elberling B, Cooper E (2014) Autumn colour change in the High Arctic. Leaf senescence response to a changing climate. *Poster presentation* at the *OIKOS* Conference, Stockholm, Sweden.

In prep.

Abbandonato H, De Vitis M, Pritchard HW (xxxx) Native seed community preferences for seed quality and certification for ecological restoration. Restoration Ecology, manuscript.

Abbandonato H, Semenchuk PR, Elberling B, Cooper EJ (xxxx) Snowmelt timing and soil temperature as important drivers for autumn senescence in High Arctic Svalbard.

VOLUNTEER EXPERIENCE (teaching/research/outreach only)

- **Chair of the Fundraising Committee** of the Fredericton Botanic Garden (2018 - present) Fredericton, Canada
- **Social Networking Volunteer** (summer 2018) Canadian Parks and Wilderness (CPAWS), Fredericton, Canada
- **Research Consultant**, Biology Faculty (March- August 2018) UNB, Canada
- **Grant Reviewer** on "How does the native plant production process affect the genetic diversity of restorations? A comparison of wild and commercially sourced milkweed (Asclepias spp.)" for Graduate Woman in Science (GWIS) (March 2018)
- **Guest speaker** "Talk in the Garden" at the Fredericton Botanic Garden (February 2018) Fredericton, Canada
- **Outreach Article** for the International Network for Seed-Based Restoration, SER chapter on: Taking a holistic approach to ecosystem restoration using native seeds (2017) website: www.ser-insr.org
- **Outreach Presenter** for Europe Day on European funded projects (2016) Trento, Italy
- **Outreach Presenter** for Researcher's Night – Interactive plant and seed display (2016) Trento, Italy
- **Outreach Presenter** on NASSTEC & poisonous plants display at ECSITE Annual conference (2015) Trento, Italy
- **Outreach Presenter** NASSTEC display at engres Marie Sklodowska Curie Conference (2014)
- **TV interview** (Trentino TV - Mille Nature Ambiente Trentino) (2014) Trento, Italy
- **Guest Speaker** for Norwegian Polar Institute (2014) Tromsø, Norway
- **Guest Speaker** for the Biology Seminar Series (2014) UNB, Fredericton
- **Guest Lecturer** for Plant Ecology course (2013) UiT, Tromsø, Norway
- **Guest Speaker** for Northern Populations and Ecosystems Faculty (2013) UiT, Tromsø, Norway

- **Project Leader** - Watershed Report Card (ENR 4001-2) (2011 - 2012) UNBF, Canada
- **Vice President of the Wildlife Society** (2009 - 2010) UNBF, Canada
- **Open House Assistant (Chemistry, Biology & Geology)** (2006 - 2007) Lindsay Place High School & UNBSJ, Canada

COURSE RELATED SKILLS

- **Field application of native seeds in Spain under Mediterranean conditions, NASSTEC AGM** Semillas Silvestres, Spain (2017)
- **Outreach Workshop, NASSTEC Complementary Skills II** Museo delle Scienze, Italy (2016)
- **Germination and industrial seed processing, NASSTEC Summer School II** UNIPV, Italy (2016)
- **Seed collecting, cleaning, and banking, viability testing, and herbarium training** Museo delle Scienze (2014-2016)
- **Course: The role of soil seedbanks in restoration, Society for Ecological Restoration European Chapter** Germany (2016)
- **Business models, seed quality IPR, and patenting NASSTEC Complementary Skills Workshop I** Syngenta Seeds, Netherlands (2016)
- **Seed collecting strategies to face climate change NASSTEC Summer School I** Jardín Botánico Atlantico, Spain (2015)
- **Course: Natural processes for the restoration of drastically disturbed sites Society for Ecological Restoration International** United Kingdom (2015)
- **Quantitative functional molecular diversity NASSTEC Cross-Cutting Workshop I** James Hutton Institute, United Kingdom (2015)
- **NASSTEC PhD Induction Course (Complementary skills in research methods, applied seed ecology)** UNIPV, Italy (2014)
- **Plant species recognition in Svalbard (AB 329 - Arctic Plant Ecology)** UNIS, Svalbard (2013)
- **Field safety, rifle and snow scooter course** UNIS (2013)
- **Red Cross CPR certificate** UiT (2012)
- **Recognition (summer and winter twig I.D.) of over 300 Eastern Canadian trees, shrubs, forbs and bryophyte species (FOR 2425 - Forest Autoecology)** UNB, Canada (2011)
- **Biodiversity Blitz with focus on plants of the Caribbean (BIOL 4443 - Barbuda Field Course)** UNB, Canada (2011)

- **Autoclave training** UNB (2010)
- **WHMIS laboratory training** UNB (2006, 2010)

COMPUTER SKILLS

- Microsoft Word, PowerPoint, and Excel (6+ years)
- R (4.5 years)
- Open Office (2 years)
- DEXi (1 year)
- SPSS (1 year)
- GIS & IDRISI (1 year)
- Beyond 20/20 (1 year)
- STELLA (0.5 year)

REFERENCES

Available upon request.