Contact Information
Dr. Anayansi Cohen-Fernández

Program Head, Ecological Restoration (MSc)
British Columbia Institute of Technology
3700 Willingdon Avenue, Burnaby, BC V5G 3H2
T: 604.432.8322 | acohenfernandez@bcit.ca

Work Experience

Dr. Anayansi Cohen-Fernández is Program Head of the Ecological Restoration MSc Program at the BCIT. Anayansi has over 20 years of experience in environmental consulting and resource management in Mexico and Canada. Her experience revolves around the effects of projects on landscape ecology and biodiversity. She also has experience in the implementation of restoration and reclamation projects following mining, oil and gas, urban and agricultural disturbances.

While doing her MSc in the tropical forests of Southern Mexico, Anayansi developed a model for sustainable use of natural populations of the multipurpose Mayan tree, Bursera simaruba. She later completed her PhD in Land Reclamation and Remediation at the University of Alberta, where she researched reclamation of limestone quarries, re-establishing ecosystem processes and native plant communities and building soils. In her postdoctoral research she evaluated the effects of fine-scale environmental heterogeneity of constructed microsites on native plant species in the Prairie and Parkland Ecoregions of Alberta. At BCIT, Anayansi helps students develop their Applied Research Projects, which have included the evaluation of prairie tallgrass restoration success, plant facilitation effects in a riparian ecosystem, enhancement of soil biocrust establishment to assist reclamation of mine tailings, and the potential of biochar to improve the functionality of rain gardens.

Education

- PhD in Land Reclamation and Remediation, University of Alberta
- MSc in Management and Conservation of Natural Tropical Renewable Resources, University of Yucatan, Mexico
- BSc in Biology, Autonomous Metropolitan University, Mexico
- University Teaching Program, University of Alberta

Professional Designation

- RPBio, British Columbia

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Contact Information
Dr. Eric M. Anderson

Program Head, Ecological Restoration (BSc)
British Columbia Institute of Technology
3700 Willingdon Avenue, Burnaby, BC V5G 3H2
T 604.456.1085 | Eric_anderson@bcit.ca

Work Experience

Dr. Eric M. Anderson is Program Head of the Ecological Restoration BSc Program at the British Columbia Institute of Technology. He and his BCIT students have conducted applied ecological research with a range of partners, such as Metro Vancouver, Ducks Unlimited Canada, City of Vancouver, Delta Farmland & Wildlife Trust, and Squamish River Watershed Society. Eric is also a Research Fellow of the Pacific WildLife Foundation, a Science Advisor for SeaDoc Society (UC Davis), a Research Scientist at Friday Harbor Labs (U. of Washington), and an Adjunct Professor at Simon Fraser University (SFU). He completed his MSc and PhD in Zoology and Physiology at the U. of Wyoming, and conducted post-doctoral research at SFU (Centre for Wildlife Ecology), Environment and Climate Change Canada (ECCC) Pacific Wildlife Research Centre, and the University of British Columbia (UBC).

Eric's research focuses especially on the ecology and conservation of nearshore ecosystems along the Pacific Coast. Some recent research projects include:

- Causes of mortality in a Harbor Seal population at carrying capacity (with SeaDoc Society, The Whale Museum, Washington Dept. of Fish and Wildlife, Animal Health Center)
- Effects of proposed off-shore wind power development in Haida Gwaii on marine birds (with SFU, ECCC)
- Functional dependencies of sea ducks on seagrass beds and herring spawn (with SFU, ECCC)
- Effects of trace elements on sea duck nutritional status (with Southern Illinois University, with SFU, ECCC)

Education

- MSc and PhD in Zoology and Physiology at the University of Wyoming
- Post-doctoral research at: Simon Fraser University (Centre for Wildlife Ecology), ECCC (Pacific Wildlife Research Centre) and the University of British Columbia

Contact Information
Daphnee Tuzlak

Faculty, Ecological Restoration
British Columbia Institute of Technology
3700 Willingdon Avenue, Burnaby, BC V5G 3H2
dtuzlak@bcit.ca

Work Experience
Daphnee is a fluvial geomorphologist and is motivated by working to cultivate positive social and environmental impact. She has expertise and interests in the areas of geologic mapping, hazard assessment, soil science, and river restoration across Canada, the U.S., and Central and South America. She also has experience in data science, remote sensing, working with aerial imagery, and community engagement. She has worked across academia, industry, and non-profit sectors and is interested in approaching problems from a systemic perspective and in reframing our mindsets for holistic orientations to outcomes.

Education
- MSc, Geology, Utah State University, 2017
- Research Topic: Evolution of the Snake River relative to the Yellowstone Hotspot supervolcano.
- BA, Geology, Middlebury College, 2014

Professional Registration
- PGeo, British Columbia

Contact Information
Dave Harper

Faculty / Assistant Instructor, Ecological Restoration
British Columbia Institute of Technology
3700 Willingdon Avenue, Burnaby, BC V5G 3H2
dharper@bcit.ca

Work Experience

In the consulting industry, Dave gained a variety of experience including environmental monitoring, park management, waterfowl capture, tagging and foraging research, and wildlife trapping and sampling. Dave spent more than 8 years working for the BC Conservation Foundation on the Greater Georgia Basin Steelhead Recovery Program and later on the multi-species Fisheries Recovery Program. Main focuses included project management, stock assessment, stream nutrient enrichment and monitoring, and habitat restoration. He led the first in-stream application using a fertilizer recovered from wastewater to increase the productivity of a Fraser Valley stream, later expanding the program to 5 other local streams. Throughout streams in the Lower Mainland, he has been involved in more than 60 enhancement projects including a 44-log engineered log jam on the Cheakamus River and more recently with fish habitat restoration at the Seymour River and Lynn Creek estuaries.

As a faculty member in the Ecological Restoration programs (BSc and MSc) in Assistant Instructor and Instructor roles, Dave looks forward to mentoring and working alongside students as they become the next generation of environmental stewards responsible for providing valuable contributions to the restoration, enhancement and conservation of aquatic and terrestrial species and their habitat.

Education

Dave is a graduate of the Fish, Wildlife and Recreation advanced diploma program and the Environmental Engineering degree program, both at BCIT.

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Contact Information

Dr. Douglas B. Ransome

Faculty, Ecological Restoration
British Columbia Institute of Technology
3700 Willingdon Avenue, Burnaby, BC V5G 3H2
dransome@bcit.ca,

Work Experience

Dr. Ransome has been an instructor at BCIT since 2003. He teaches courses in Research Design and Implementation and Restoring Wildlife Populations within the ER programs; and Wildlife Ecology and Management in BCIT's Fish, Wildlife, and Recreation Program. His research interests include examining the effects of forest practices on various wildlife populations, particularly arboreal mammals and small mammals; restoring wildlife populations; and wildlife damage and techniques to reduce damage in forestry and agricultural operations. During this time at BCIT he has been the Program Head for the BSc (2012-2018) program in Ecological Restoration and the newly designed MSc (2015-2019) program in Ecological Restoration.

Education

- PhD on resource limitation of northern flying squirrels and Douglas squirrels in managed forests in 2001 from the University of British Columbia.
- MSc in 1994 from the University of British Columbia.
- His undergraduate degrees include one from University of Guelph in Wildlife Management and University of Windsor in General Biology.

Professional Designation

Dr. Ransome was a past Director for the Society of Ecological Restoration (Western Canada Chapter) and is a current director of the British Columbia Waterfowl Society. He is also a research associate with Applied Mammal Research Institute.

Contact Information
Dr. Ken Ashley

Faculty, Ecological Restoration
School of Construction and the Environment
Director, BCIT Rivers Institute
Ken_Ashley@bcit.ca

Work experience

Ken worked for the Ministry of Environment in the Fisheries Research and Development Section on the UBC campus from 1979 to 2005, initially as a project biologist, and eventually as Section Head for Fisheries Restoration and Bioengineering. While in this position he conducted a set of large-scale adaptive management experiments, and is recognized for his research in the design, operation and effects of hypolimnetic aeration systems, lake/reservoir fertilization, and stream/river enrichment. Ken transferred to the Greater Vancouver Regional District from 2005 to 2007 as Senior Engineer and was the project lead for the Environmental Management team, with responsibility for raw drinking water quality, and monitoring the environmental effects of wastewater discharges from the regions five wastewater treatment plants and municipal water withdrawals from the Capilano, Seymour and Coquitlam rivers. Ken was Secretary for the BC Living Rivers Program in 2008, Senior Scientist at Northwest Hydraulic Consultants from 2010 to 2012, and taught part time in the BCIT Ecological Restoration Degree Program from 2010 to 2012. Ken is currently Director of the Rivers Institute at BCIT, an Instructor in BCIT's Ecological Restoration Program and Adjunct Professor at SFU.

Education

- PhD, Civil Engineering, University of British Columbia, 2002
- MASc, Civil Engineering, University of British Columbia, 1989
- MSc, Zoology, University of British Columbia, 1981
- BSc, Zoology, University of British Columbia,1976

Professional Designation

- RPBio, British Columbia

Contact Information
Kim Ives

Faculty, Ecological Restoration
British Columbia Institute of Technology
3700 Willingdon Avenue, Burnaby, BC V5G 3H2
T: 604-412-7526 | kives@bcit.ca

Work Experience

Kim Ives has been working in the natural resources field since 2007. She has worked in both the fisheries and wildlife fields with provincial governments, environmental consultants, and educational institutes. Kim has an MSc in Wildlife Management and Ecology and her research examined predicting extinction risk in scavenging species and associated interspecies interactions in North America. She has participated in projects that include an assessment of fish habitat in several rivers in the Calgary area in the Bow River Watershed and subsequent compensation following the 2013 floods, a fish inventory and habitat assessment of the Berland River Watershed, and a Northern Alberta non-game fish status assessment, in addition to various baseline inventories/assessments of areas prior to disturbance/development.

Kim has been involved in natural resource education programs for the past 12 years, including teaching fisheries ecology, inventory and management courses at institutes that include the Northern Alberta Institute of Technology and Vancouver Island University. She has also been an electrofishing certification instructor with VIU since 2012. Kim has previously taught Wildlife Ecology and Management in the FWR program at BCIT and currently teaches several courses in the MSc and BSc Programs in the Ecological Restoration program, in addition to supervising applied research projects in several programs in the Renewable Resources department at BCIT.

Education

- MSc, Wildlife Ecology and Management, University of Alberta
- BSc, Environmental and Conservation Sciences, University of Alberta

Professional Designations

- RPBio (British Columbia)
- PBiol (Alberta)

Contact Information
Lisa Henault

Faculty, Ecological Restoration
British Columbia Institute of Technology
3700 Willingdon Avenue, Burnaby, BC V5G 3H2
O 604.456.8006 ext. 8006 | lhenault@bcit.ca

Work experience

Lisa Henault is both a teacher and geoscientist. After completing her B.Ed. at the University of Winnipeg she completed her MSc in fluvial geomorphology at the University of British Columbia. Following completion of her MSc, Lisa worked for BCIT as program manager of the Squamish First Nations Restoration Program which was followed by nearly 6 years in engineering as a consulting geoscientist. Much of her time in engineering focused on the quantitative evaluation of rivers as a risk to linear infrastructure. This work included many summers in the field and brought her to a wide array of landscapes to evaluate potentially hazardous rivers and slopes. Lisa also managed a detailed hydrotechnical analysis program, which included large scale data collection and evaluation, training engineers in data analysis and the completion of technical reports. In recent years, Lisa has turned her focus to channel restoration, which included project work the Central Westcoat Forest Society and habitat restoration of heavily logged watersheds north of Tofino.

Lisa currently teaches several courses in the MSc and BSc programs and supervises multiple applied research projects in the Ecological Restoration program at BCIT. Her research projects including those focused on natural methods of slope stabilization and bank erosion, achieving suitable spawning grounds through substrate augmentation, and determining best methods for achieving floodplain connectivity.

Education

- MSc, Fluvial Geomorphology, University of British Columbia
- BEd, High School Education, University of Winnipeg
- BSc, Geography / Biology, University of Winnipeg
- Diploma, Natural Disaster Management, University of South Iceland
- Emergency Management Exercise Design
- Incident Command Systems Levels 100, 200 and 300

Contact information
Midoli Bresch

Assistant Instructor, Ecological Restoration
British Columbia Institute of Technology
3700 Willingdon Avenue, Burnaby, BC V5G 3H2
mbresch@bcit.ca

Work experience

Midoli began work during her undergrad in a fisheries genetics lab looking at hybridization rates for populations of coastal Dolly Varden and bull trout. She has also contributed to developing a resource selection function for the listed species, the coastal tailed frogs, where she spent her summers hiking the mountains between Terrace and Smithers in northern BC. Midoli later worked for the Hakai Institute on the central coast and Quadra Island, where she was exposed to a variety of researchers in several disciplines, including oceanography, humpback whale feeding ecology, and hydrology. Midoli was also the lead field tech for a nearshore ecology program where she managed a portfolio of research projects that included beach seining, soft sediment ecology, sea grass bed mapping and monitoring, and rocky intertidal work. These projects were all linked via a food web study using stomach contents and stable isotope analysis.

Midoli later competed her MSc in resource and environmental management at SFU, where she specialized in quantitative fisheries by evaluating the impacts of spatial population structure on stock assessment estimates of biomass and productivity for the outside population of yelloweye rockfish. Midoli also worked during her graduate studies as a project coordinator and researcher for salmon and aquaculture management at the First Nations Fisheries Council followed by later work in the stock assessment and research division in the groundfish section at Fisheries and Oceans Canada (DFO).

Education

- BSc in natural resource management of fisheries and wildlife from the University of Northern British Columbia
- MSc in natural resource management, with a specialty in quantitative fisheries, from Simon Fraser University

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Contact Information
Millie Kuyer

Assistant Instructor, Ecological Restoration
British Columbia Institute of Technology
3700 Willingdon Avenue, Burnaby, BC V5G 3H2
mkuyer@bcit.ca

Work experience
Millie Kuyer has been working in the natural resource management field since 2005 and has since worked with industry, non-profit, First Nations, federal government, and environmental consultants with a focus on terrestrial ecology. She has a tech. dipl. in Fish, Wildlife and Recreation and a BSc in Ecological Restoration from BCIT. She has worked as a biologist within Canada's rocky mountain National Parks including restoration planning and monitoring for AltaLink's 551L Transmission Line Rebuild, rare plant surveys for Lake Louise Ski Resort, environmental monitoring for the Sulphur Mountain Gondola, and riparian vegetation monitoring for the Cascade Creek restoration project. Millie also worked on Parks Canada's whitebark pine restoration project by assisting in pine cone caging, seed collection, and tree planting in high elevation forests.

Millie is currently an Assistant Instructor and provides support to all levels of programming and supervises applied research projects for the Ecological Restoration BSc program. Millie is also a Research Associate with the BCIT Rivers Institute where she is supporting a number of river conservation and restoration projects across southwestern BC.

Education
- BSc, Ecological Restoration, BCIT, 2017
- Dipl. Tech. Fish, Wildlife and Recreation, BCIT, 2015
- Professional Photo Imaging, Langara College, 2009

Professional Designation
- Biologist in Training (BIT)