



AIESHA AGGARWAL

GIS

BIOLOGY

CONSERVATION

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EDUCATION

- September 2016 – June 2017 **GIS Application Specialist // Ontario College Graduate Certificate**
Sir Sandford Fleming College
Courses included: Problem Solving and Programming, Spatial Analysis, GIS Data Management, Environmental Modeling
- September 2011 – June 2015 **Bachelor of Science // Honours Specialization Biology**
The University of Western Ontario
Dean's Honour List
Courses included: Genetic Engineering, Behavioural Genetics, Plants as a Human Resource

PROFESSIONAL EXPERIENCE

- December 2017 – June 2017 **GIS Consultant // LakeZ Group**
Client: The Ministry of Natural Resources and Forestry
As head of visuals I created cartographically pleasing and informative maps and diagrams to convey the groups findings. I also assisted with data pre-processing, report writing and Python programming to investigate the ability of various methods to predict maximum and mean depth for lakes in Ontario using their surrounding topography
- June 2016 – October 2016 **Engagement Organizer**
The Couchiching Conservancy
Connected with community at local events, nature reserves, and via canvassing, to raise awareness of the importance of protecting protecting natural space in light of Canada's 2020 Biodiversity Goals and global Aichi Biodiversity Targets. Efforts resulted in a 1666% increase in yearly newsletter sign-ups. Entered contact information into Excel and wrote newsletters using Constant Contact.
- October 2015 – June 2016 **Special Projects Intern**
The Couchiching Conservancy & Copeland Forest Friends Association
Completed a guiding document for Copeland Forest Friends Ecology and Sustainability Committee with maps, background information, monitoring techniques and sample data collection sheets for future citizen science monitoring projects. Collected water quality data, biweekly, using LaMotte Water Quality Monitoring kits.
- June 2014 – October 2014 **Research Assistant**
The University of Western Ontario Zanette Lab Aviaries
Identified brown-headed cowbirds by coloured leg bands during experimental trials and during daily health checks. Kept neat notes for graduate students during aviary maintenance, and experimental trials. Gained experience removing birds from ground traps and handling birds with photographers and banders grips.
- May 2013 – September 2013 **Landscapers Assistant**
Orillia Landscaping
Built and maintained gardens for local businesses

UNDERGRADUATE RESEARCH PROJECTS

Spring 2015	Foraging Behaviour of Convict Cichlids Under Predation Behaviour Ecology Research group leader in experimental design, data collection, research paper writing and presentation. Monitored and maintained experimental fish tanks daily, resulting in a 100% survival rate
Spring 2015	Recovery of Soil Biota and Chemical Composition in Fallow Fields Ecosystem Ecology Measured soil properties (bulk density, texture, pH, etc.) in lab. Performed background research and SPSS data analyses to support findings in a scientific research article
Fall 2014	Proximity of Childhood Home to Natural Areas Influences Frequency of Childhood Experiences in Nature Research Hypothesis Testing Independently collected data using Google Forms, analyzed results in RStudio, and presented findings as a research paper
Summer 2014	Coral and Algae Composition Shifts Influenced by Proximity to Shipwrecks, Lighthouse Reef Atoll, Belize Field Studies in Biology (Belize) Designed and collected field data along transects at 3 aquatic study areas. Communicated research progress in field journal and in class meetings, as well as a final research paper format.
May 2013 – September 2013	Wetland and Grassland Restoration Proposal Restoration Biology Interviewed locals, assessed site and performed background research to propose restoration plan for a railway corridor. Became familiar with issues and solutions in conservation and wildlife management.

CONFERENCES AND WORKSHOPS

October 2016	Ontario Nature Huronia Regional Meeting Guest Speaker – 'Bird Brained at 23'
January 2016	Community Engagement Workshop // Freshwater Alliance
November 2016	Forest Health in Ontario Conference Delegate for the Couchiching Conservancy
November 2015	Ontario Land Trust Association (OLTA) Annual Conference Delegate for the Couchiching Conservancy
October 2015	Benthic Kicktest Workshop // Ontario Streams
June 2015	Water Testing Workshop // Ontario Streams

CERTIFICATES

June 2017	Creating Infographics with Illustrator CC (2013) // Lynda.com
April 2017	Regression Analysis Using ArcGIS // esri Versioned Editing Workflows for the Multiuser Geodatabase // esri
March 2017	Working with Geodatabase Domains and Subtypes in ArcGIS // esri
February 2017	3D Analysis of Surfaces and Features Using ArcGIS // esri 3D Visualization Using ArcGIS Pro // esri Introduction to the ArcGIS for Server REST API // esri
January 2017	GIS on the Web // Lynda.com Infrared Photography: Nature and Landscapes // Lynda.com Insights on Photojournalism // Lynda.com Python for Everyone // esri Getting Started with ArcGIS Pro // esri 3D Visualization Techniques Using ArcGIS // esri Solving Spatial Problems Using ArcGIS // esri Address Geocoding with ArcGIS // esri Performing Spatial Interpolation Using ArcGIS // esri
November 2016	Referencing Data to Real-World Locations Using ArcGIS // esri Basics of Geographic Coordinate Systems // esri Basics of Map Projections // esri
October 2016	AutoCAD 2017 Essential Training // Lynda.com Access 2013 Essential Training // Lynda.com The 15-Minute Map: Creating a Basic Map in ArcMap // esri Getting Started with the Geodatabase // esri Getting Started with Geodatabase Topology // esri
September 2016	Creating a Map with Illustrator // Lynda.com Getting Started with GIS // esri