



# AIESHA AGGARWAL

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aieshaaggarwal@hotmail.com

## SKILLS

Data Visualization  
Scientific Communication  
Spatial Analysis  
Programming  
Database Management  
Community Outreach  
Species Identification

## TECHNOLOGIES

ESRI Software  
PCI Geomatica  
Trimble  
R Studio  
SPSS  
Microsoft Office Suite  
Adobe Illustrator  
SQL Developer

## CERTIFICATES

Technical Writing: Reports  
Lynda.com | July 2017

Regression Analysis Using  
ArcGIS  
ESRI | April 2017

Versioned Editing Workflows  
for the Multiuser  
Geodatabase  
ESRI | April 2017

3D Analysis of Surfaces and  
Features Using ArcGIS  
ESRI | February 2017

Access 2013 Essential  
Training  
Lynda.com | October 2016

Creating a Map with  
Illustrator  
Lynda.com | October 2016

Ontario Benthos  
Biomonitoring Network Basic  
Training  
OBBN | June 2016

## EDUCATION

### SIR SANDFORD FLEMING COLLEGE - LINDSAY, ONTARIO

September 2016 - June 2017

Ontario College Graduate Certificate, Geographic Information Systems -Application Specialist

**Courses Included:** Environmental Modelling, Spatial Analysis, GIS Data Management, Surveying and CAD Mapping, Problem Solving and Programming

### UNIVERSITY OF WESTERN ONTARIO - LONDON, ONTARIO

September 2011 - April 2015

Bachelor of Science, Honours Specialization in Biology

Dean's Honor List (2014, 2015), The Western Scholarship of Distinction (2011)

**Courses Included:** Genetic Engineering, Cell Biology of Stress, Developmental Biology, Plants as a Human Resource, Environmental Plant Physiology

## EXPERIENCE

### LAND SURVEYOR

Dearden and Stanton Limited | October 2017 - Present

Use state-of-the-art GPS technology and a knowledge of CAD mapping to collect field data for engineering and land surveys.

### GIS CONSULTANT, HEAD OF GRAPHICS

Sir Sandford Fleming College (Collaborative Group Project) | December 2016 - June 2017

Consulted Ontario Ministry of Natural Resources and Forestry (MNRF) on best methods to predict lake morphometrics. Created Python scripts to process very large datasets. Data analyzed with R. Assisted with writing, editing, and oral presentation of the project proposal, progress reports, and final report.

### ENGAGEMENT ORGANIZER

The Couchiching Conservancy | June 2016 - October 2016

Spoke with the community at local events, nature reserves, and via canvassing, to raise awareness of the importance of protecting natural space in light of Canada's 2020 Biodiversity Goals and global Aichi Biodiversity Targets. Diligently entered contact information into Excel and wrote compelling newsletters using Constant Contact.

### SPECIAL PROJECTS INTERN

The Couchiching Conservancy | October 2015 - June 2016

Performed field and literature research to create a document to guide the Copeland Forest Friends Ecology and Sustainability Committee in using citizen science to monitor invasive and at-risk species in the Copeland Forest. Collected water quality data bi-weekly and supervised new testing teams.

### RESEARCH ASSISTANT

Zanette Lab Aviaries, The University of Western Ontario | June 2014 - October 2014

Daily husbandry of study birds. Identified birds by leg bands. Kept neat notes during bird health checks and experimental trial for the use of graduate students in their research.



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## LICENSES

Ontario Driver's License G  
Pleasure Craft Operator Card

## CONFERENCES AND WORKSHOPS

Ontario Nature Huronia  
Regional Meeting  
*Guest Speaker - 'Bird Brained  
at 23' | October 2016*

Freshwater Alliance  
Community Engagement  
Workshop  
*January 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 | November 2015*

Ontario Streams Benthic  
Kicktest Workshop  
*October 2015*

Ontario Streams Water  
Testing Workshop  
*June 2015*

## UNDERGRADUATE RESEARCH PROJECTS

### FORAGING BEHAVIOUR OF CONVICT CICHLIDS UNDER PREDATION

*Behaviour Ecology | Spring 2015*

A mock-thesis project including experimental design, data collection, research proposal and paper writing, and presentation of findings. Monitored and maintained experimental fish tanks daily, resulting in a 100% survival rate.

### RECOVERY OF SOIL BIOTA AND CHEMICAL COMPOSITION IN FALLOW FIELDS

*Ecosystem Ecology | Spring 2015*

Measured soil properties (bulk density, texture, pH, etc.) in a laboratory setting. Performed background research and SPSS data analyses to support findings in a scientific research article.

### PROXIMITY OF CHILDHOOD HOME TO NATURAL AREAS INFLUENCES FREQUENCY OF CHILDHOOD EXPERIENCES IN NATURE

*Research Hypothesis Testing | Fall 2014*

Independently collected data using Google Forms, analyzed results and created figures in RStudio, and presented findings as a research paper.

### CORAL AND ALGAE COMPOSITION SHIFTS INFLUENCED BY PROXIMITY TO SHIPWRECKS, LIGHTHOUSE REEF ATOLL, BELIZE

*Field Studies in Biology (Belize) | Summer 2014*

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 in research paper format. Used best judgment and adaptability to adjust field data collection plans when surprised by poor weather conditions.

### WETLAND AND GRASSLAND RESTORATION PROPOSAL

*Restoration Biology | Spring 2014*

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.

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## REFERENCES

REFERENCES AVAILABLE UPON REQUEST.