Brandon Edwards

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Education

HONOURS BACHELOR OF COMPUTING | UNIVERSITY OF GUELPH | 2015 - 2020

- Major: Computer Science (Co-Op)
- · Minor: Statistics
- · Related coursework: Data Structures, Statistics I & II, Analysis and Design of Computer Algorithms, Object Oriented Programming, Operating Systems, Introductory Mathematical Statistics I

Experience

UNDERGRADUATE RESEARCH ASSISTANT | UNVERSITY OF GUELPH – SCHOOL OF COMPUTER SCIENCE | FEBRUARY 2016 - PRESENT

- · Independently implemented a novel agent-based model to simulate Piping Plover breeding seasons using Python
- · Cleaned and analyzed a large dataset of over 11,000 entries using R and Excel
- Co-authored a conference paper that was presented at the 2017 IEEE International Humanitarian Technology Conference
- Presented a research poster at the College of Physical and Engineering Sciences Undergraduate Poster Session (2016 and 2017)
- · Presented a research poster at American Ornithology 2017 in Lansing, MI
- · Co-authored a technical report making recommendations of total allowable catch (TAC) of a certain fish species

DATA ANALYST | UNVERSITY OF GUELPH – SCHOOL OF ENVIRONMENTAL SCIENCE | JANUARY 2016 – APRIL 2016

- $\cdot\,\,$ Automated the compilation of 30 years of weather data from 9 weather stations into an Excel database
- · Performed simple statistical analyses on past and future climate data
- · Debugged and assisted in developing a soil physics database in Excel

WEB DESIGNER | ST. CLAIR CATHOLIC DISTRICT SCHOOL BOARD | JUNE 2013 – SEPTEMBER 2013

- · Designed new website for two merging high schools using JavaScript, HTML, and CSS
- Communicated with officials from both high schools to determine what would best represent both high schools

CUSTOMER SERVICE REPRESENTATIVE | BEST BUY CANADA | NOVEMBER 2012 – JANUARY 2016

- Fulfilled customers' online and phone reservations in a timely manner
- · Assisted with solving customer issues related to return policies or other store/company policies

Scholarships and Awards

CLUB MEMBER OF THE YEAR – UNIVERSITY OF GUELPH WILDLIFE CLUB	2016/2017
JAY MAJITHIA SCHOLARSHIP – UNIVERSITY OF GUELPH	2016
M.H. (MIKE) NICOLS SCHOLARSHIP PLAN – INSULATORS LOCAL 95	2015-2017
UNIVERSITY OF GUELPH ENTRANCE SCHOLARSHIP – UNIVERSITY OF GUELPH	2015

Presentations, Proceedings, and Papers

- 1) Gillis, D., **Edwards, B.P.M.,** Saba, M. (2017). *The Utility of Join Point Regression for Surplus Production Models.* To be submitted to Ecological Modelling
- 2) **Edwards, B.P.M.,** Gillis, D. (2017, August). *Modelling habitat loss in Piping Plovers using an environmental agent-based model.* Poster to be presented at American Ornithology 2017, Lansing, MI.
- 3) **Edwards, B.P.M.,** Gillis, D. (2017, August). *Using environmental agent-based modelling to simulate the breeding success of piping plovers.* Poster to be presented at the CPES Undergraduate Poster Session, Guelph, ON.
- 4) Rose, D., **Edwards, B.P.M.**, Kett, R., Yodzis, M., Angevaare, J., Gillis, D. (2017, July). *Exploring Anthropogenic Activities and Management Decisions Using a Novel Environmental Agent Based Model.* Paper presented at the IEEE International Humanitarian Technology Conference, Toronto, ON.
- 5) Rose, D., Kett, R., **Edwards, B.**, Requejo, F. (2016, October). *Modeling Lake Whitefish With Computer Systems Explained*. SON and University of Guelph Joint Council Meeting, Guelph, ON.
- 6) **Edwards, B.**, Rose, D., Requejo, F., Rollins, E., Kett, R., Gillis, D. (2016, August). *Improving efficiency of traditional agent-based models to investigate anthropogenic activities on a wild fish population*. Poster presented at the CPES Undergraduate Poster Session, Guelph, ON.

Technical Reports

- 1) Rose, D., **Edwards, B.P.M.**, Kett, R., Gillis, D. (2017, July). *SON Bio-economic Modelling: The Development of An Environmental Agent Based Model for Assessing Anthropogenic Scenarios on Lake Huron Lake Whitefish (Coregonus clupeaformis)*. Technical Report University of Guelph and the Saugeen Ojibway First Nations.
- 2) Gillis, D., **Edwards, B.** (2016, July). *Total Allowable Catch 2016.* Technical Report University of Guelph and the Saugeen Ojibway First Nations.

Technical Skills

- · Agent-based model development in Python and Julia
- · Data analysis, visualization, and interpretation of large datasets using Excel, R, and Julia
- · Database development and maintenance using Microsoft Excel
- · Proficient using C with basic and advanced data structures
- · Version control experience using git for team projects and planning

Clubs and Organizations

WILDLIFE CLUB - UNIVERSITY OF GUELPH | 2015 - PRESENT

- · Communications Executive 2016/2017
- · Club Member of the Year 2016/2017

ONTARIO FIELD ORNITHOLOGISTS (OFO) | 2017

· Regular Member – 2017

SOCIETY OF CANADIAN ORNITHOLOGISTS (SCO) | 2017

· Regular member – 2017

Volunteer

COFFEE TO COMPOST | UNIVERSITY OF GUELPH | NOVEMBER 2016 - APRIL 2017

· Assisting with the collection and distribution of coffee compost bins throughout select coffee shops on campus