

# Laura Green

## Summary of Qualifications

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Skilled problem-solver and researcher in group settings interested in a research career in neuroscience. Interdisciplinary background in science, with excellent time management and organizational skills. Familiar with Python and MATLAB.

## Education

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*Honours Bachelor of Science* 2014-2018 (Expected)  
*McMaster University, Hamilton, Ontario*

- Entering fourth year Integrated Science
- University (Senate) Scholarship (2016)
  - GPA ranked in top 10-15% of Science Faculty
- McMaster President's Award (2014-2015)
  - Awarded for entrance average of 95% or greater

## Academic Experience

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### Work Experience

Undergraduate Student Research Grant (USRA) Summer 2017

- Dr. Ian Bruce  
Auditory Engineering Laboratory
  - Implemented mathematical descriptions of ion channels into an auditory nerve model
  - Analyzed simulations results in order to improve changes to model

### Student Publications

Panuelos, J., Green, L., What would the world be like to a borrower? *Journal of Interdisciplinary Science Topics* 5.

<https://physics.le.ac.uk/jist/index.php/JIST/article/view/187/114>

Fare, I. and Green, L. (2016). "Formation of the Earth and Solar System" in: Eyles and Symons (eds.), *History of the Earth Vol VI*. McMaster University. pp. 4-9.

[<http://hdl.handle.net/11375/20732>].

(Course credit was received for the above publications)

## Lab Research

- Dr. Paul Andrews 2015-present  
Evo-Health Lab, McMaster University
  - Planned and in the process of implementing an experiment to investigate how expressive writing affects heart rate variability, salivary cortisol, and theory of mind in undergraduate students
  - Drafted a paper on the antioxidant properties of serotonin
  - Supervised over 40 participant trials, involving collecting ECG and respiratory data from undergraduate students to better understand how expressive writing affects mood and physiology

## Work Experience

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- Café Espresso Barista* 2016-present
- Crafted food and drinks with care for customers' personal wishes in a demanding, fast-paced environment

- Piano Instructor* 2013-present
- Substituted for a teacher of beginner to intermediate piano students at Long and McQuade
  - Instructed students in beginner music theory and history
  - Initiated piano business teaching beginner piano to local children ages 5-11

## Extracurricular Activities

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- High School Workshop* 2017
- Neuroscience Workshop Co-Leader
    - Taught basic neuron anatomy and function to high school students
    - Developed an Arduino circuit, program, and worksheet to demonstrate synaptic transmission using a photosensor and LED
    - Co-lead and trained a group of 4 volunteers to plan and implement the workshop effectively and on-schedule
- Integrated Science Peer Mentor* 2016-present
- Mentored students individually on second year Neuroscience curriculum
  - Lead a review session for a second year Neuroscience midterm