

# Undergraduate Research Position

## Research Focus:

Neuroscience Laboratory

## Project/Position Details:

We are looking for a motivated undergraduate student who is enthusiastic about data analysis in neuroscience research. Specifically, we are seeking a student who will apply quantitative analysis and digital signal processing. The experimental data will be acquired from the cultured mammalian brain cells and tissue specimens, using fluorescence microscopy and electrophysiology-based methods. The student should be good at quantitative skills including mathematics, computer programming and/or statistics. The student should be meticulous and reliable, and motivated to learn a variety of new analysis techniques independently. Background knowledge of neuroscience is advantageous but it is not absolutely required. Depending on the contribution, the student may be given the opportunity to become a co-author on publications and posters. If interested, the student may be able to perform wet-bench experiments.

## Website:

[medicine.uiowa.edu/physiology/profile/n-charles-harata](http://medicine.uiowa.edu/physiology/profile/n-charles-harata)

## Qualifications:

Prior experience with computer programming is highly recommended.

Applicants should have a GPA of 3.5 or higher.

Applications from freshmen are welcome: Applications by freshmen are expected to include the GPA of high schools additionally.

## Time Commitment:

A minimum effort of 10 hours per week during the semester will be expected. Full-time availability during long breaks is strongly encouraged. Generally, the work is performed Monday through Friday between 8 a.m. and 5 p.m. We are located in the Bowen Science Building (BSB), but the communication and the work will be performed online during the COVID-19 pandemic.

## Compensation:

Volunteer - with 0-credit hour registration for transcript recognition

Academic Credit - as 1-4 credit hour independent study, graded A-F or pass/fail

## Start Date and Timeline:

Immediately

## How to apply:

Please prepare a single file that contains: 1) a cover letter that briefly describes your motivation, interest and future goals, 2) the Curriculum Vitae, including cumulative GPA, and 3) the contact information (name, work title, address, e-mail, phone) of at least two references (who can write recommendation letters for you), and e-mail it to: [charles-harata@uiowa.edu](mailto:charles-harata@uiowa.edu).