

## Kyle Baustert

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4415 White Lake Dr. Whitehall, MI 49461

### Education

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B.S. in Chemistry, Grand Valley State University, Allendale, MI 2015-Present  
Minor in Mathematics  
Frederick Meijer Honor's College  
Expected Graduation Date: April 2019

### Research Experience

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Honor's Senior Project, Grand Valley State University Allendale, MI 2018

As a member of GVSU's Frederick Meijer Honor's College, I was required to design and complete my own senior project to finish my requirements for graduation. I chose to do a research project in Dr. Ramsson's lab on a frequency-based separation technique for fast-scan cyclic voltammetry (FSCV) analytes. I completed the three-credit project over the summer of 2018 and had the chance to present my results at an international conference.

Research in Biomedical Sciences, Grand Valley State University Allendale, MI 2017

I chose to take a credit of independent research in biomedical sciences consecutively during both the spring/summer semesters as well as the fall semester of 2017 at GVSU. I used this as an opportunity to start a new project in Dr. Ramsson's lab using FSCV to try and record basal dopamine levels in the telencephalon of a zebrafish brain without stimulating its release.

Undergraduate Researcher, Grand Valley State University Allendale, MI 2016-Present

I began working in Dr. Ramsson's lab Fall 2016 using the analytical technique Fast-Scan Cyclic Voltammetry (FSCV). While researching in the lab, I became familiar with the basic principles of this technique and developed an interest for its different applications in neuroscience. The redox chemistry behind the FSCV technique and the ways in which it can be used to record real-time changes in neurotransmitter concentrations continues to be intriguing to me and an undergraduate.

### Presentations

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1. Kyle N. Baustert, Eric S. Ramsson. Frequency-based separation of fast-scan cyclic voltammetry analytes. Chemistry Senior Seminar at Grand Valley State University Allendale, Michigan November 16, 2018 (*Oral Presentation*)
2. Kyle N. Baustert, Eric S. Ramsson. Frequency-based separation of fast-scan cyclic voltammetry analytes. 2018 Society for Neuroscience International Conference in San Diego, California November 6, 2018 (*Poster*)
3. Kyle N. Baustert, Eric S. Ramsson. Investigation of the basal dopamine levels in the zebrafish telencephalon using fast-scan controlled adsorptive voltammetry. 2017 Society for Neuroscience International Conference in Washington D.C. November 6, 2017 (*Poster*)

## Awards

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Academic Conference Fund Travel Grant Grand Valley State University 2017 & 2018

## Teaching Experience

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Chemistry Success Center Walk-in Tutor, Grand Valley State University 2018-**Present**

- The CSC works to provide a space for students who have brief questions in their chemistry courses. I work as a walk-in tutor for several hours each week to help students in need.

Trio Scheduled Tutor, Grand Valley State University 2017-2018

- The Trio Tutoring service focusses on students who need more one on one time with a tutor. I was assigned a student to tutor in both a general chemistry course as well as college algebra for a few hours each week throughout the semester.

Scheduled Chemistry Tutor, Grand Valley State University 2016-2018

- Met with multiple groups of 1-4 students for one hour each week to help them with lecture topics and assignments for general chemistry courses.

## Academic & Community Service

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Chemistry at the Mall, Rivertown Mall Grandville, MI 2018

- Met with GVSU's Chemistry Club at the Grandville mall near campus to help run different demo experiments for the national annual Chemistry at the Mall event.

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