

# Emmett E. Galles

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## OBJECTIVE

An entry-level position in the law industry that encourages critical, creative, and interdisciplinary thinking.

## EDUCATION

### **University of Wisconsin-Madison**

Expected Graduation Date: May 2021

- \* B.S. Double Major: Engineering Mechanics, Mathematics
- \* Cumulative GPA: 3.83 / 4.0
- \* Dean's List (all semesters), Engineering Honors in Liberal Arts

## WORK EXPERIENCE

### **Notbohm Research Group:** Madison, WI

May 2019 - present

#### *Undergraduate Researcher*

- \* Write more than forty MATLAB scripts to characterize local cell motion during collective cell migration
- \* Model and capture the mechanical effects of local fiber thickness in fibrous networks using finite element software
- \* Collaborate with graduate students and principal investigator to share ideas and conclusions on a weekly basis

### **Undergraduate Learning Center:** Madison, WI

August 2018 - present

#### *Head Tutor*

- \* Lead a group of fifteen tutors to effectively provide a valuable learning resource for over fifty STEM courses
- \* Pioneer the creation of weekly instructional videos in response to COVID-19 for a core engineering course

### **L'Etoile Restaurant:** Madison, WI

September 2017 - August 2018

#### *Service Assistant*

- \* Learned technical and intricate service details of a fine-dining restaurant to complete training within four shifts
- \* Maintained composure and high standards while handling multiple responsibilities in hectic situations

## CAMPUS INVOLVEMENT

### **UW-Madison Department of Astronomy:** Madison, WI

January 2018 - July 2018

#### *Undergraduate Research Assistant*

- \* Navigated through NASA's database of over 900,000 near-Earth objects to locate unidentified asteroids
- \* Learned the fundamentals of Linux and image processing software to generate results within two weeks

### **Sensory Board Project:** Madison, WI

August 2017 - December 2017

#### *Team Leader*

- \* Led a team of seven students through the design, manufacturing, and testing of an interactive sensory board

## PUBLICATIONS

- \* *MATH 521 (Analysis I) Course Notes*, GitHub ([link](#)) July 2020
- \* *Spatiotemporal force and motion in collective cell migration*, Nature Scientific Data ([link](#)) June 2020

## SKILLS

Microsoft (Excel, Word, PowerPoint), MATLAB, Python, L<sup>A</sup>T<sub>E</sub>X, SolidWorks, Windows 10, ImageJ, Maple