

# Aaron A Jones

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## Marquette University

Arble Laboratory  
Wehr Life Sciences, Room B03  
Milwaukee, WI 53201-1881  
United States

## Contact Information

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## Education

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### Ph.D. Biological Sciences

In progress, estimated completion: 2023  
Marquette University, Milwaukee, WI

### Bachelor of Arts

Class of 2018  
Major: Biochemistry, Minor: Chemistry  
Augustana College, Rock Island, IL

## Research Experience

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### Undergraduate Research in laboratory of Dr. Scott Gehler

Summer 2017

Augustana College – Rock Island, IL

- Individual research project monitored by research advisor
- Tested naturally occurring flavonoids against breast cancer cell motility and adhesion
- Research skills:
  - Aseptic handling and sub-culturing of human breast cancer cells
  - Assays: Proliferation, Scratch, Transwell, Adhesion, Cell Spreading and Focal Adhesion Formation
  - ImageJ analysis software
  - Fluorescent microscopy
- Recipient of an Augustana Summer Student Research Fellowship

### Graduate Rotation in laboratory of Dr. Anita Manogaran

Fall 2018

Marquette University – Milwaukee, WI

- Created mutant strains of *Saccharomyces Cerevisiae* using a gene disruption/transformational approach
  - Knocked out genes encoding for autophagy-associated proteins
- Analyzed protein aggregate formation in mutant strains using fluorescent microscopy

### Graduate Rotation in laboratory of Dr. Sofia Origanti

Fall 2018

Marquette University – Milwaukee, WI

- Aseptic handling and sub-culturing of mammalian breast epithelial cells
- Engineered plasmids using bacterial transformations and restriction enzymes
- Transfected mammalian cells with engineered plasmids using lipofection technique
- Investigated protein expression of eukaryotic initiation factors in mammalian epithelial cells using Western Blot analysis
- Assessed protein interactions using pull-down assays

### Graduate Rotation in laboratory of Dr. Deanna Arble

Spring 2018

Marquette University – Milwaukee, WI

- CITI training for mouse and rat handling
- Investigated the effects of photoperiod manipulation on ventilatory drive in mice
  - Used whole-body plethysmograph to assess breathing

Aaron Jones

**Dissertation Research in laboratory of Dr. Deanna Arble**

**Spring 2018 – Present**

Marquette University – Milwaukee, WI

- Currently studying the intersection of photoperiod, ventilation, and the neuronal circuitry involved
  - Perform i.p. injections in mice, plethysmography analysis, metabolic studies, western blot analysis of protein expression in the brain

## Conferences

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**ASCB-EMBO**

**December 2017**

- Presentation of the breast cancer research conducted in Dr. Gehler's laboratory
- Jones, A and Gehler, S. (2017). The Flavonoids Acacetin and Pinostrobin Inhibit Cell Migration and Adhesion in MDA-MB-231 Breast Epithelial Cells. ASCB-EMBO annual meeting. Philadelphia, PA.

## Teaching Experience

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**Tutoring**

**2017 – 2018**

Augustana College – Rock Island, IL

- Tutored students in cell biology, genetics and human physiology
- Coordinate with Student Success Services to ensure students are getting appropriate academic help
- Gained valuable one-on-one teaching and communicational experience

**Teaching Assistant – Organic Chemistry 3 Lab**

**Spring 2018**

Augustana College – Rock Island, IL

- Coordinated with instructor to lead lab activities
- Helped students learn and implement experimental techniques
- Managed chemistry storeroom, IR machine, and Rotovap

**Teaching Assistant – Cell Biology Lecture**

**Fall 2018**

Marquette University – Milwaukee, WI

- Led and graded 3 discussion sections a week for 35 students
- Gave short lectures and held office hours to meet with students individually

**Teaching Assistant – Neurobiology Lab**

**Spring 2018**

Marquette University – Milwaukee, WI

- Coordinated with instructor to lead lab activities
- Helped students with dissection techniques and electro-physiological measurements
- Held office hours where students could get individual attention and ask questions

## Organizational and Volunteer Service

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**Vice President – Augustana Chemical Society**

**2017 – 2018**

- (*Member March 2016 – May 2018*)

**Tribeta Biological Honor Society – Augustana College**

**2016 – 2018**

## Honors and Awards

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Logos Honors Program (Augustana)

**2014-2015**

Dean's List (Augustana)

**Winter 2015 – Spring 2018**

Augustana Presidential Scholarship

**Fall 2014 – Spring 2018**

Augustana Biological Scholarship

**Fall 2014 – Spring 2018**

Augustana Summer Student Research Fellowship

**Summer 2017**

## Related Course Work

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### Graduate Courses

- Statistical Methods **Fall 2018**
- Imaging and Cytoskeleton **Fall 2018**
- Eukaryotic Protein Trafficking **Spring 2019**
- Advanced Experimental Design and Quantitative Methods **Spring 2019**

### Undergraduate Courses

- General Chemistry 1, 2 and 3 **Fall 2014 – Spring 2015**
- Organic Chemistry 1, 2 and 3 **Fall 2015 – Spring 2016**
- Zoology **Winter 2014/2015**
- Cell Biology **Spring 2016**
- Human Physiology **Fall 2016**
- Biochemistry 1 **Fall 2016**
- Genetics **Winter 2016/2017**
- Biochemistry 2 **Spring 2017**
- Cancer Biology **Spring 2017**
- Physical Chemistry **Fall 2017**
- Human Anatomy **Fall 2017**
- Molecular Genetics **Winter 2017/2018**
- Histology **Spring 2018**