

ASHLEY OTERO
Neuroscience Ph.D. Candidate
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EDUCATION

Purdue University, West Lafayette, IN *Conferred May 2020*
B.S. Biological Engineering
Cumulative GPA: 3.69/4.00

University of Illinois at Urbana-Champaign, Urbana, IL *Expected 2025*
Ph.D. Neuroscience
Laboratory of Dr. Adrienne Antonson, Ph.D.
Cumulative GPA: 4.00/4.00

RELEVANT EXPERIENCE

University of Illinois at Urbana-Champaign, Urbana, IL *Spring 2021 – present*
Graduate Research Assistant of Antonson Lab
Investigating the implications of maternal immune activation on neurodevelopmental disorders in offspring using a mouse model of gestational influenza A virus

Purdue University, West Lafayette, IN *Fall 2019 – May 2020*
Senior Capstone Member
Developed and analyzed an experimental design and computationally generated a manufacturing plant for a novel product—probiotic-infused xanthan-gum balls—to be used in drinks with large variances in pH

Cook Research Inc., West Lafayette, IN *Summer 2019*
Nonclinical Intern
Assisted in survival and non-survival surgeries in porcine models as a trained surgical operator and created standard operating procedures

USDA-ARS, West Lafayette, IN *Spring 2018 – Spring 2020*
Biological Science Aid
Employed molecular analysis of soybeans to select desirable genes for large scale breeding

Howard Hughes Medical Institute, West Lafayette, IN *Fall 2017 – Spring 2018*
SEA-PHAGES Researcher
Conducted environmental sampling, isolation, purification, amplification, and characterization of a novel bacteriophage and analyzed results with bioinformatics tools

PUBLICATIONS

1. **Otero A.M.**, Antonson A.M. 2022. At the crux of maternal immune activation: Viruses, microglia, microbes, and IL-17A. *Immunol Rev.* 00: 1- 19. doi: [10.1111/imr.13125](https://doi.org/10.1111/imr.13125)

ABSTRACTS

1. **Otero A.M.**, et al., 2022. Murine influenza A virus disrupts immune profiles in the maternal gut and placenta during acute phase infection in a dose dependent manner. Annual Meeting of the PsychoNeuroImmunology Research Society, Zurich, Switzerland.

2. **Otero A.M.**, et al., 2022. Murine influenza A virus disrupts immune profiles in the maternal gut and placenta during acute phase infection in a dose dependent manner. Brain, Glia, Immunology Symposium at Washington University, St. Louis, Missouri.
3. **Otero A.M.**, Antonson A.M. 2021. Murine influenza A virus disrupts immune profiles in the maternal gut and placenta but not the fetal brain. 50th Annual Meeting of the Society for Neuroscience, Chicago, IL.

HONORS & AWARDS

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| Neuroscience Program Fellowship | <i>Fall 2022</i> |
| Neuroscience Program Fellowship | <i>Summer 2021</i> |
| Purdue Dean's List | <i>Fall 2016 – Spring 2020</i> |
| Oral Presentation Selection in Purdue Undergraduate Research Symposium | <i>Spring 2018</i> |
| Project Design Excellence in First Year Engineering | <i>Spring 2017</i> |

TEACHING

University of Illinois at Urbana-Champaign, Urbana, IL

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| MCB 247: Anatomy and Physiology Lab II | <i>Spring 2022</i> |
| MCB 245: Anatomy and Physiology Lab I | <i>Fall 2021</i> |