

# Allison J. Olshefke

203B Willard Hall Education Building, Newark, DE 19716  
aolshefk@udel.edu

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## EDUCATION

### University of Delaware

Doctor of Philosophy, Education, *In Progress*  
*Specialization: Mathematics Education*

### University of Notre Dame

Master of Education, Alliance for Catholic Education, 2020  
*Emphasis: Mathematics Education*

### University of Notre Dame

Bachelor of Science in Physics, 2018  
*Concentration: Applied Physics - Computer Science*  
*Minor: Education, Schooling, and Society*

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## PROFESSIONAL APPOINTMENTS

### Associate Research Director, ACE Ascent Program

University of Notre Dame, Institute for Educational Initiatives 2021-2023

**Curriculum Designer and Evaluation & Research Assistant**, *Making Waves* 2020-2021

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## GRANTS

2022-2023 <b>PI</b>	Catholic School Teacher Leadership (CASTLE): Fortifying and Expanding Catholic School Collaboration Through Social Network Analysis, Lucy Family Institute for Data and Society, PI: Christine Trinter, Co-PI: Dan Lapsley, <b>Co-PI: Allie Olshefke</b> , \$12,312.
2021-2024 <b>Research Staff</b>	Catholic School Teacher Leadership, Education Innovation Fund, Kansas City, PI: Christine Trinter, \$263,297.
2020-2021 <b>Research Staff</b>	STTR Phase I: Making Waves: Educational Technologies Combining STEM and Music Learning, PI: Michael Lindburg, Co-PI: Jay Brockman, \$225,000.

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## SCHOLARLY PRESENTATIONS

### *Peer-Reviewed Conference Proceedings*

**Olshefke, A.** (2024, February). Analyzing Calculus Textbooks' Introduction of the dynamic derivative using a framework of shape-thinking and (co)variational reasoning. *25th Research in Undergraduate Math Education Conference*, Omaha, NE.

Margolis, C., Paoletti, T., & **Olshefke, A.** (2024, February). Digital task design to support students' developing graphing meanings. *25th Research in Undergraduate Math Education Conference*, Omaha, NE.

Trinter, C., **Olshefke, A.**, Schilly, H. (2023). Catholic School Teacher Leadership. *National Catholic Education Association Annual Conference*, Dallas, TX.

Trinter, C., Lapsley, D., **Olshefke, A.** (2022). Fortifying and expanding Catholic school collaboration through social network analysis. *Lucy Family Institute for Data & Society Fall Symposium 2022*, Notre Dame, IN.

**Olshefke, A.**, Trinter, C., Young, J. (2022). Exploring the efficacy of small school teacher leadership using social network analysis. *Lucy Family Institute for Data & Society Fall Symposium 2022*, Notre Dame, IN.

**Olshefke, A.**, Trinter, C., Young, J. (2022). Exploring the efficacy of small school teacher leadership using social network analysis. *National Council for Teachers of Mathematics Research Conference*, Los Angeles, CA.

**Olshefke, A.**, Kilburn, M., (2018). Investigating implicit bias in letters of recommendation for a high school physics camp. *College of Science Joint Annual Meeting*. Notre Dame, IN.

**Olshefke, A.**, Kilburn, M., (2017). Investigating the relationship of science fair participation on students' perceptions of science. *College of Science Joint Annual Meeting*. Notre Dame, IN.

### *Other Presentations*

**Olshefke, A.**, Howell, M., Doerfler, E., Donovan, J., & DiSipio, J. (2019). Holding flashlights: Ethnic and racial identity formation in catholic schools. Paper presentation. *ACE Teaching Fellows Conference*. Notre Dame, IN.

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## HONORS AND AWARDS

<b>Dean's Scholar</b> University of Delaware, School of Education	2023-2027
<b>Paul Chagnon Award for Service to the Department</b> University of Notre Dame, Department of Physics	2018
<b>Outstanding Senior Band Member</b> University of Notre Dame, Band of the Fighting Irish <i>Awarded for service to the Band Department</i>	2018
<b>Induction to Sigma Pi Sigma</b> (Physics Honors Society) American Physical Society, Society of Physics Students <i>Physics Honors Society</i>	2018
<b>Gold Award</b> Girl Scouts of America <i>Girl Scouts equivalent to Eagle Scout Rank</i>	2014

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## RESEARCH EXPERIENCE

<p>Covariational and Algebraic Reasoning (CARE) Project  University of Delaware, School of Education  (PI: Dr. Teo Paoletti)  <i>Graduate Research Assistant</i></p>	2023 - present
<p>Middle School Students' Graphing from the Ground Up (MSS-GGU)  University of Delaware, School of Education  (PIs: Dr. Teo Paoletti &amp; Dr. Hwa Young Lee)  <i>Graduate Research Assistant</i></p>	2023 - present
<p>ACE Ascent program (formerly Catholic School Teacher Leadership)  University of Notre Dame, Institute for Educational Initiatives  (Director: Dr. Christine P. Trinter)  <i>Associate Research Director</i></p>	2021-2023
<p>Making Waves: Educational Technologies Combining STEM and Music Learning  South Bend Woodworks &amp; University of Notre Dame, College of Engineering  (PIs: Michael Lindburg and Dr. Jay Brockman)  <i>Evaluation and Research Assistant</i></p>	2020-2021
<p>Research on Outreach and Education in the Joint Institute for Nuclear Astrophysics - Center for the Evolution of Elements (JINA-CEE)  University of Notre Dame, Department of Physics  (Advisor: Dr. Michael Kilburn)  <i>Undergraduate Research Assistant</i></p>	2017-2018
<p>Nuclear Structure and Nuclear Astrophysics  University of Notre Dame, Department of Physics  (Advisor: Dr. Dan Bardayan)  <i>Undergraduate Research Assistant</i></p>	2015

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## TEACHING EXPERIENCE

**University of Notre Dame**, Notre Dame, IN

**Supervisor**, Institute for Educational Initiatives

EDU 65034/65036: Introduction to Teaching Practicum Summer 2022

**Co-instructor**, Institute for Educational Initiatives

EDU 60665: Mathematics Education I Summer 2022

**Teaching Assistant**, Department of Computer Science

CSE 40437/60437: Social Sensing and Cyber-Physical Systems Spring 2018

**Teaching Assistant**, Department of Physics

PHYS 20210: Physics I Fall 2017

PHYS 20452: Mathematical Methods in Physics II Spring 2017

PHYS 20451: Mathematical Methods in Physics I Fall 2016

**Cristo Rey Atlanta Jesuit High School**, Atlanta, GA

**Mathematics Instructor**, *AmeriCorps* ACE Teaching Fellow

AP Calculus AB 2018-2021

Calculus 2020-2021

Precalculus 2018-2019

**Girls Who Code**, Chicago, IL

**Teaching Assistant**, Summer Immersion Program

Summer 2016

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## ADDITIONAL SKILLS

**Languages:** Spanish (intermediate working proficiency)

**Software:** IBM SPSS, ATLAS.ti, Microsoft Office Suite, macOS, LaTeX

**Programming Languages:** R, C, C++, Python, MATLAB, Mathematica

CITI Training Qualification