

Carlson Triebold

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Educational Background

- Purdue University**, West Lafayette, IN 2015 – 2021
Doctor of Philosophy, Mathematics
Dr. Jared Barber, Advisor
- Indiana University – Purdue University (IUPUI)**, Indianapolis, IN 2015 – 2018
Master of Science, Mathematics
- Olivet Nazarene University**, Bourbonnais, IL 2012 – 2014
Bachelor of Science, Mathematics
Minor: Chemistry
Summa Cum Laude
- Prairie State College**, Chicago Heights, IL 2010 – 2012
Associate of Science, General Mathematics and Science
Summa Cum Laude

Teaching Experience

- Assistant Professor of Mathematics** 2022 – Present
Point Loma Nazarene University, San Diego, CA
- Statistics, Spring 2023
 - Business Calculus, Spring 2023
 - Elementary Algebra, Spring 2023
 - Business Calculus, Fall 2022
 - Pre-calculus, Fall 2022
- Mathematics Instructor** 2022
Lewis University, Romeoville, IL
- Applied Calculus, Spring 2022
 - Linear Algebra, Spring 2022
- Mathematics Instructor** 2017 – 2020
IUPUI, Indianapolis, IN
- Analytic Geometry and Calculus I, Spring 2020
 - Trigonometry, Fall 2019
 - Calculus for the Life Sciences II, Summer 2019
 - Analytic Geometry and Calculus II, Spring 2019
 - College Algebra, Fall 2018
 - Calculus for the Life Sciences II, Summer 2018
 - Intermediate Algebra, Spring 2018
 - Intermediate Algebra, Fall 2017
- Mathematics Tutor** 2016 – 2019
Mathematics Assistance Center at IUPUI, Indianapolis, IN
Tutored a wide range of topics, including algebra, trigonometry, calculus, differential equations and linear algebra.

Publications

Triebold, C., Barber, J. Dependence of red blood cell dynamics in microvessel bifurcations on the endothelial surface layer's resistance to flow and compression. *Biomech Model Mechanobiol* (2022).
<https://doi.org/10.1007/s10237-022-01560-x>

Triebold, C., Barber, J. The effect of the endothelial surface layer on cell-cell interactions in microvessel bifurcations. *In preparation*.

Triebold, C. The effects of the endothelial surface layer on red blood cell dynamics in microvessel bifurcations. *Purdue university graduate school* (2021). Thesis.

Presentations

Society for Industrial and Applied Mathematicians Conference on the Life Sciences, July 2022. *The effect of porous microvessel linings on red blood cell behavior in diverging bifurcations*. Co-author Jared Barber.

Society for Industrial and Applied Mathematicians Annual Meeting, July 2021. *The effects of the endothelial surface layer on red blood cell dynamics in microvessel bifurcations*. Co-author Jared Barber.

American Physiological Society Interface of Mathematical Models and Experimental Biology Conference, September 2019. *Interactions between pairs of red blood cells in microvascular flows*. Co-authors Jared Barber and Maryam Amram.

Professional Associations

Society for Industrial and Applied Mathematicians
President, IUPUI Student Chapter (2020 – 2021)
Vice President, IUPUI Student Chapter (2017 – 2020)

2015 – Present

Mathematical Association of America

2022 – Present

Awards and Honors

MAA Project NExT Fellow (2022)
Part of the Red '22 cohort.

Early Career Travel Award (2022)
A grant to attend and present at the SIAM Conference on the Life Sciences.

IUPUI School of Science Graduate Student Teaching Award (2019)
Nominee of the mathematical sciences department.

IUPUI University Fellowship (2015)
One of four Ph.D. candidate recipients across all departments.

20 Points, 74th Annual Putnam Competition (2013)
Ranked 597 out of 4,113 participants nationwide.