

Carlson Triebold

2196 Fenton Pkwy Apt 314
San Diego, CA 92108
(708) 510-1444
ctriebol@pointloma.edu

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** 2022 – Present
Point Loma Nazarene University, San Diego, CA
 - Calculus Based Statistics with R
 - Introduction to Statistics
 - Business Calculus
 - Pre-Calculus
- Adjunct Mathematics Instructor** 2022
Lewis University, Romeoville, IL
 - Applied Calculus
 - Linear Algebra
- Mathematics Instructor** 2017 – 2020
IUPUI, Indianapolis, IN
 - Analytic Geometry and Calculus I
 - Analytic Geometry and Calculus II
 - Calculus for the Life Sciences
 - Trigonometry
 - College Algebra
 - Intermediate Algebra

Fellowships and Awards

- MAA Project NExT Fellow (2022)**
Project NExT trains and equips new generations of mathematics teachers.
- IUPUI School of Science Graduate Student Teaching Award (2019)**
Nominee of the mathematical sciences department.
- IUPUI University Fellowship (2015)**
One of four PhD candidate recipients across all departments.

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 **21**, 771-796 (2022). <https://doi.org/10.1007/s10237-022-01560-x>

Triebold C, Barber J. *The effects of the endothelial surface layer on red blood cell dynamics in microvessel bifurcations*. Purdue University Graduate School. Thesis (2021). <https://doi.org/10.25394/PGS.15070422.v1>

Presentations

American Physiological Society Division of Fluid Dynamics (APS-DFD) Annual Meeting, Indianapolis, IN. *The effects of the endothelial surface layer on red blood cell partitioning, deformation, and penetration of that layer*. November 2022.

Applied Interdisciplinary Mathematics (AIM) Seminar, Ann Arbor, MI. *Computational modeling of red blood cells and osteocytes*. October 2022.

World Congress on Computational Mechanics and Asian Pacific Congress on Computation Mechanics (WCCM-APCOM), Yokohama, Japan. *The effect of vessel wall proteins on red blood cell dynamics at diverging vessel-bifurcations*. August 2022.

Society for Industrial and Applied Mathematicians Conference of the Life Sciences (SIAM-LS), Pittsburgh, PA. *The effect of porous microvessel linings on red blood cell behavior in diverging bifurcations*. July 2022.

American Physiological Society Division of Fluid Dynamics (APS-DFD) Annual Meeting, Phoenix, AZ. *The effects of the endothelial surface layer's (ESL's) hydraulic resistivity and resistance to compression of red blood cell partitioning, deformation, and penetration of the ESL*. November 2021.

Society for Industrial and Applied Mathematicians (SIAM) Annual Meeting. *The effects of the endothelial surface layer on red blood cell dynamics in microvessel bifurcations*. July 2021.

American Physiological Society (APS) Interface of Mathematical Models and Experimental Biology Conference, Scottsdale, AZ. *Interactions between pairs of red blood cells in microvascular flows*. September 2019.

Professional Associations

Society for Industrial and Applied Mathematics 2015 – Present

Mathematical Association of America 2022 – Present