EDUCATION	
The University of North Carolina at Chapel Hill (UNC)	
PhD Applied Mathematics	2023-
BS Physics and Applied Mathematics	2019-2023
PUBLICATIONS	
Differentiation Through Black-Box Quadratic Programming Solvers <u>Connor W. Magoon</u> *, Fengyu Yang*, Noam Aigerman, Shahar Z. Kovalsky <u>NeurIPS</u>	Accepted 2025
The way bubbles gallop Jian H. Guan, Saiful. I. Tamim, <u>Connor W. Magoon</u> , Howard A. Stone, and Pedro J. Sáenz <u>Physical Review Fluids</u>	Accepted 2025
Galloping Bubbles Jian H. Guan*, Saiful. I. Tamim*, <u>Connor W. Magoon*</u> , Howard A. Stone, and Pedro J. Sáenz <u>Nature Communications</u>	2025
Traveling Faraday waves Jian H. Guan, <u>Connor W. Magoon</u> , Matthew Durey, Roberto Camassa, and Pedro J. Sáenz <u>Physical Review Fluids</u>	2023
*Equal contribution	
AWARDS	
<u>Travel Grants</u>	
NeurIPS Scholar Award	2025
Conference Awards	
Gallery of Fluid Motion Award, American Physical Society / Division of Fluid Dynamics Jian H. Guan, Saiful. I. Tamim, <u>Connor W. Magoon</u> , Howard A. Stone, and Pedro J. Sáenz <u>"Galloping Bubbles"</u>	2024
Milton van Dyke Award, American Physical Society / Division of Fluid Dynamics Jian H. Guan, <u>Connor W. Magoon</u> , Matthew Durey, Roberto Camassa, and Pedro J. Sáenz <u>"Run, Faraday, Run"</u>	2022
<u>Honors</u>	
Doctoral Merit Fellowship, UNC	2023-2024
Archibald Henderson Mathematics Medal, UNC	2023

## **TALKS**

Introduction to Fluid Mechanics (MATH 563)

Elementary Differential Equations (MATH 524)

Collective Dynamics of Galloping Bubbles 2024 Connor W. Magoon, Xinyun Liu, Jian H. Guan, Saiful I. Tamim, and Pedro J. Sáenz APS Division of Fluid Dynamics Meeting Direct Numerical Simulations of Vibrating Bubbles Self-Propelling Along Solid Boundaries 2023 Connor W. Magoon, Jian H. Guan, Saiful I. Tamim, and Pedro J. Sáenz APS Division of Fluid Dynamics Meeting **TEACHING** Instructor First Course in Differential Equations Laboratory (MATH 383L) Fall 2025 TA Calculus of Functions of Several Variables (MATH 233) Fall 2024, 2025 General Physics II: For Students of the Life Sciences (PHYS 115) Summer 2021 Fall 2020 Introductory Calculus-based Electromagnetism and Quanta (PHYS 119) Grader

Spring 2025 Spring 2024