

Announces the Ph.D. Dissertation Defense of

AISHWARYA S. NAIR

for the degree of Doctor of Philosophy (Ph.D.)

“Navigation and Coordination of artificial swimmers using Deep Reinforcement Learning”

March 14, 2024, 10:00 a.m.
Engineering West Building (EG-36), Room 187
777 Glades Road
Boca Raton, FL

BIOGRAPHICAL SKETCH

Born in North Paravur, Kerala, India

B.S., Birla Institute of Technology and Science, Hyderabad, India, 2017

M.S., Purdue University, West Lafayette, IN, USA, 2018

Ph.D., Florida Atlantic University, Boca Raton, FL, USA, 2024

CONCERNING PERIOD OF PREPARATION & QUALIFYING EXAMINATION

Time in Preparation: 2019 - 2024

Qualifying Examination Passed: Fall 2019

Published Papers:

Nair A, Kazemi A, Curet O, Verma S., "Porous cylinder arrays for optimal wake and drag characteristics". *Journal of Fluid Mechanics*. 2023;961:A18.
doi:10.1017/jfm.2023.255

Nair A., Alvaro A., Verma S., "Autonomous navigation of simulated swimmers using deep reinforcement learning", *Bulletin of the American Physical Society*, Volume 68, Indianapolis, 2022

Nair A., Verma S., "Navigation of interacting swimmers using Multi-agent Reinforcement Learning", *Bulletin of the American Physical Society*, Volume 69, Washington D.C., 2023